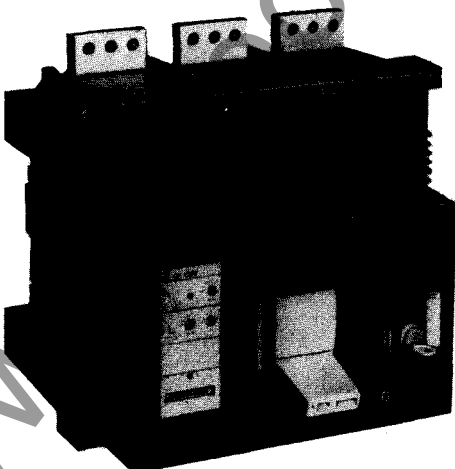
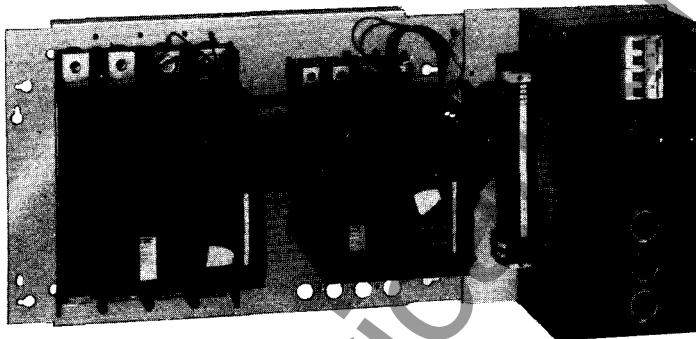
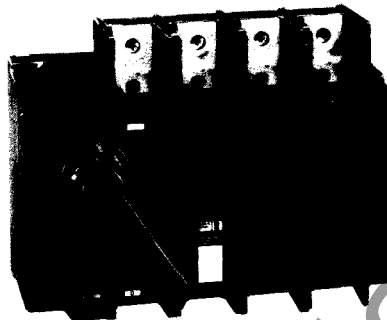


MERLIN GERIN

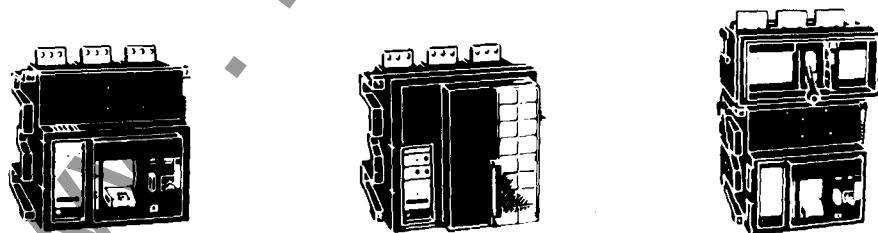
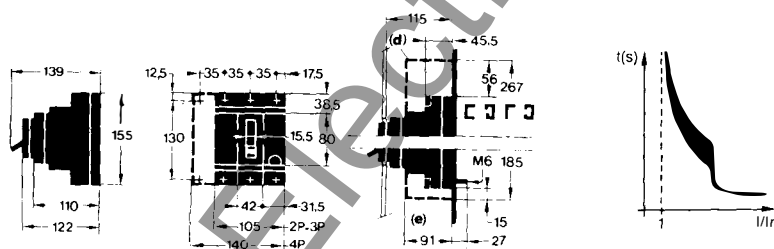
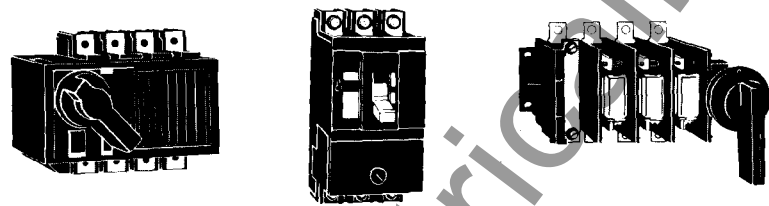
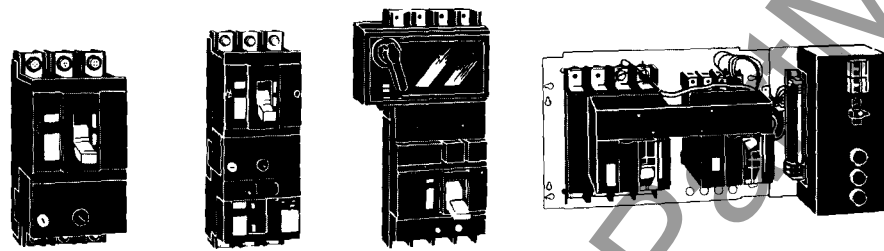
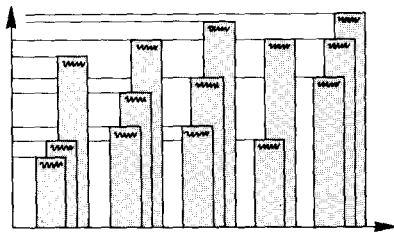
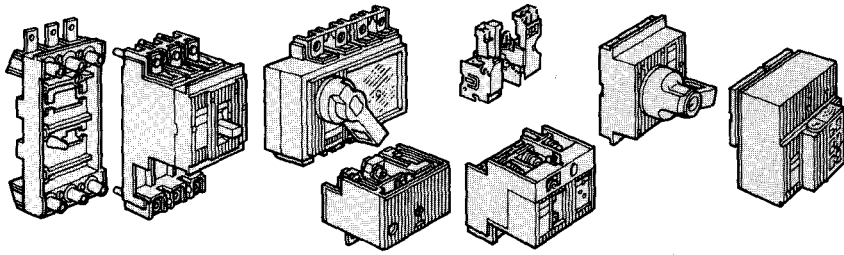
Compact
Interpact
Compact CM



mastering electrical power



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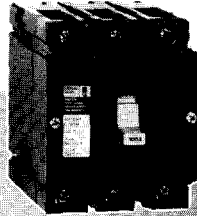
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Compact 1989 new products

Here under, briefly, the most significant innovations.
In order to obtain all relevant technical informations, look into your 89 low voltage catalogue.

Compact C101N/H/L

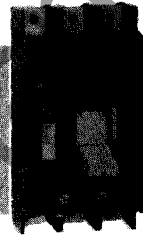
The new Compact C101N/H/L circuit-breaker offers reduced dimensions in a 100 ampere size frame. Thanks to its exceptional connection by bars, crimped lugs and cables without additional accessories.



See pages 17 and 60 to 63.

Compact C401N/H/L

The new Compact C401N/H/L circuit-breaker replaces the actual C400N/H/L equipped with the standard trip units. The C401N/H/L offers new motor protection trip units with adjustable magnetic and new direct current trip units.

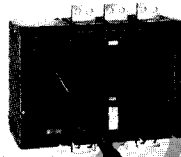


See pages 17 and 74 to 79.

Interpact IN switches

A range from 63 to 2500 A with high performances :

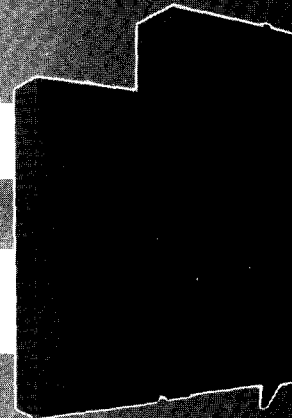
- high making capacity,
- long mechanical life,
- positive break indication,
- 3 pole width for the ratings 1000 up to 2500 A.



See pages 100 to 103.

Panelpact

Panelpact is a new mccb's distribution board which can be erected at any public place.



See page 110.

Visucompact C800N ST to C1250N ST

Fully visible break up to mccb's 1250 A. The visual proof of isolation between supply and load circuits can be achieved by :

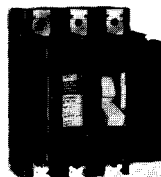
- fixed Visucompact C161N to C1250N ST,
- drawout Visucompact C800N ST to C1250N ST.



See page 12.

New performances for mccb's C161N/H/L

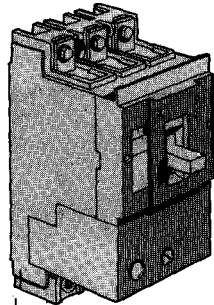
- the C161N/H/L is now available for the ratings 100 and 125 A.



See pages 64 to 66.

Compact system

Compact circuit-breakers with thermal-magnetic trip units



circuit protection and control



D type

protection with low magnetic threshold



G type

selectivity for protection against short-circuit



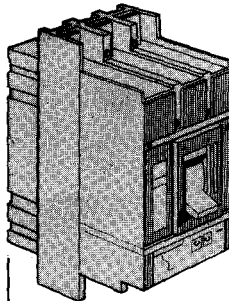
SA, SB type

protection of motor starters

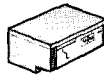


MA type

Compact circuit-breakers with control units (solid state trip units)



circuit protection and control



ST204S, ST205D, ST305G

selectivity for protection against short-circuits



ST204S, ST305S, ST305SL, ST204SB, ST305SB

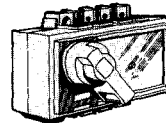
models and add-ons

residual current protection



with Vigi module : Vigicomact⁽¹⁾

fully visible break



with Visu module: Visucompact

auxiliaries and accessories

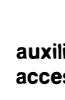
electrical auxiliaries



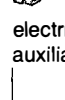
remote control



accessories



connection



page N°

description	6	8	8	8	10	9	9	9	11	12	14	13	14	14
characteristics	19	26	26	26	26	20	30	30	32	12	40	41	50	54
parts numbers														
C100E	58										59	59		
C225E	58										59	59	59	
C400E	58										59	59	59	
C600E	58										59	59	59	
C100NF	58											59		
F150N	58											59		
C101N/H/L	60	60	61	61	61				61		63	63	63	
C161N/H/L	64	64	66	66	66				65		67	67	67	
TC160N/L	68	68	68	68					69		69	69	69	
C250N/H/L	70	70	70	70					71	72	73	73	73	
C401N/H/L	74	74			74				75	78	79	79	79	
C630N/H/L	80	80			80				81	84	85	85	85	
C400N/H/L ST						76			77	78	79	79	79	
C630N/H/L ST						82			83	84	85	85	85	
C800N/H/L ST						86	86	86	86	92	87	87	87	
C1000N/H/L ST						88	88	88	86	92	89	89	89	
						90	90	90	86	92	91	91	91	

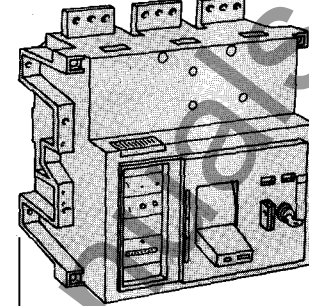
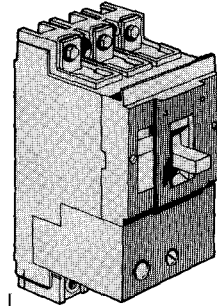
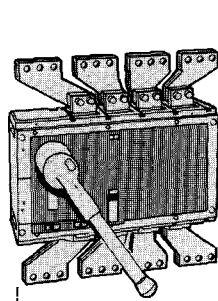
Interpact load break switches
Compact NI load break switches
Fupact fuse-switches

Compact CM

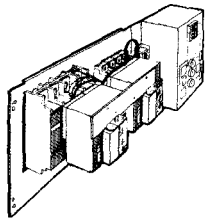
Interpact load break switches

Compact type NI load break switches

Compact CM with control units (solid state trip units)

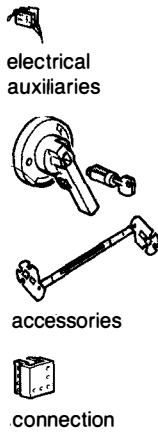


source changeover



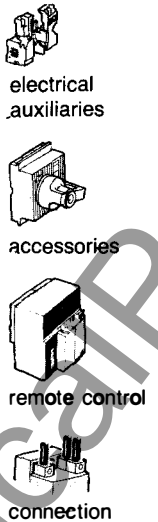
automatic and manual source changeover

auxiliaries and accessories



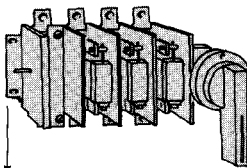
connection

auxiliaries and accessories

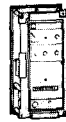


connection

Fupact fuse-switches

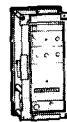


circuit protection and control



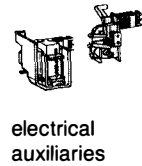
STCM1

selectivity for protection against short-circuit

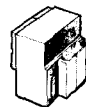


STCM2
STCM3

auxiliaries and accessories



electrical auxiliaries



accessories



remote control



connection

13	98	99	10	106	144	145	145	144	144
42	100		104	106	148	148	148	150	153
	102	103	105	107	154			155	155

			63						
			67						
94									
94			73						
94			79						
94			85						
94									
94			87						
94									
			91						

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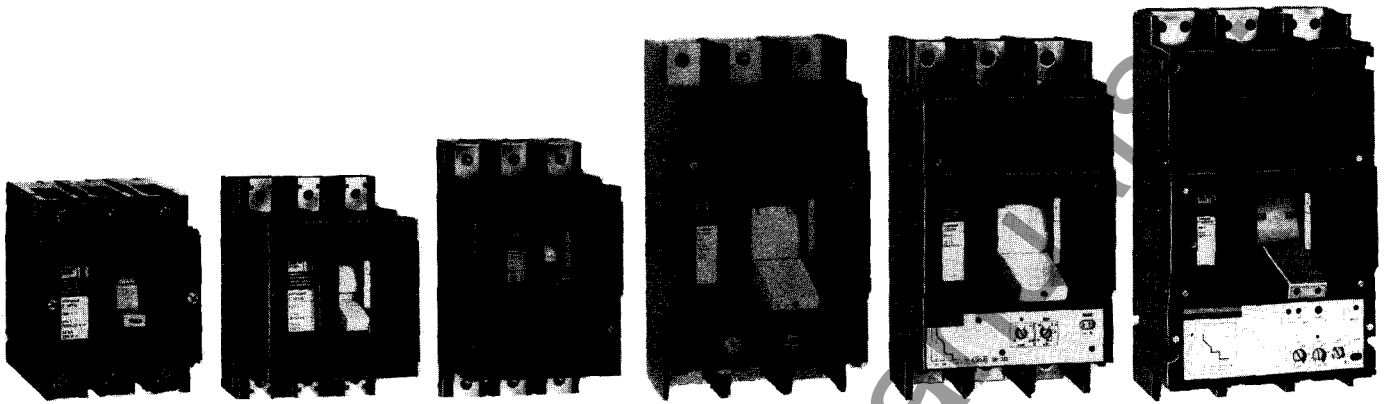
low voltage mccb's

Compact 11 to 1250 A

1 Compact system

	page
presentation	6
Compact type D, G, SA, SB	8
Compact type ST	9
Compact type MA, NI	10
Vigicompact	11
Compact with Vigirex	
withdrawable Compact	12
Visucompact	
remote control	13
automatic source changeover	
auxiliaries	14
accessories	
Compact circuit-breakers	15
UL listed	

Compact system presentation



Compact 101

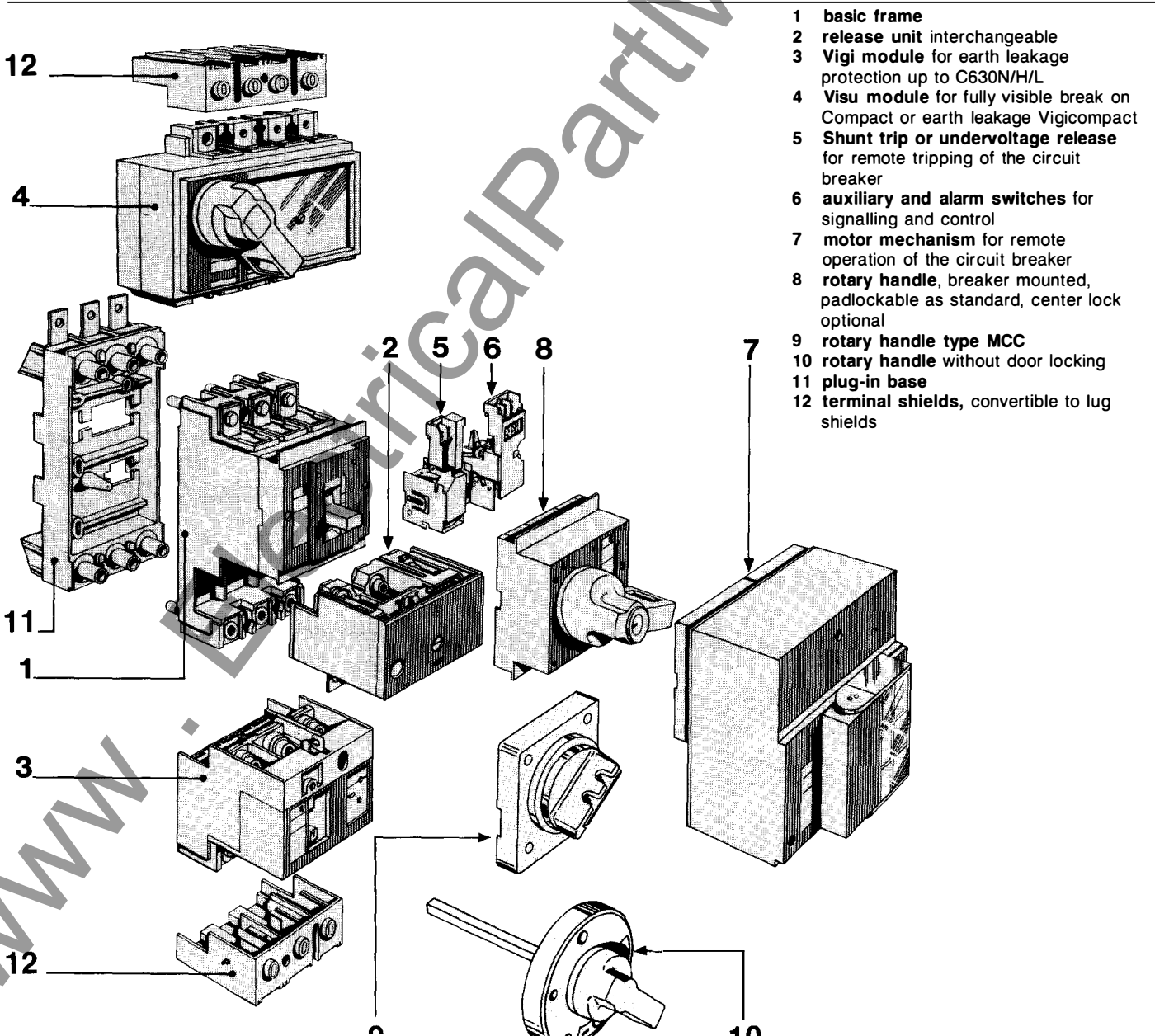
Compact C161

Compact C250

Compact C401 and C630

Compact C400 ST and C630 ST

Compact C800 ST, C1000 ST and C1250 ST



standards

Merlin Gerin low voltage devices comply with all national and international standards (see table below).

The breaking capacities for 220 V, 380/415 V, 440 V, 500 V and 660 V given in this catalogue cover almost all existing three phase systems. Values for commonly used North American voltages are also given.

country	standard
Europe	IEC 157-1
France	NF C 63-120
Germany	VDE 0660
Great Britain	BS 4752
Australia	AS 2184
Italy	CEI 17.5
South Africa	SABS 156
Finland	FI EI3

Moreover, the Compact and their derived breakers are approved for marine applications.

Approvals for merchant marine and off-shore (see page 18).

Specific regulation must be observed in order to reduce to minimum the risks involved in shipboard operations.

The Compact circuit-breakers manufactured by Merlin Gerin are recognised by the following authorities:

- Bureau Veritas: BV
- Lloyd's Register of Shipping: LRS
- Registro Italiano Navale: RINA
- Germanische Lloyd's: GL
- USSR Register of Shipping: USSR RS
- Det Norske Veritas: JNV
- American Bureau of Shipping: ABS

Two other versions of the Compact range described in separate leaflets are:

- UL listed according to UL 489, (see page 15)
- designed to Japanese Industrial standard JIS C8370

description

Compact moulded case circuit-breakers come in single-pole, two-pole, three-pole and four-pole versions. Available in fixed or drawout patterns, they are designed for the control and protection of electric circuits.

Compact circuit-breakers are equipped with trip units providing:

- protection against overloads by adjustable thermal releases or solid state trip units (control units);
- protection against short-circuits by adjustable magnetic releases or solid state trip units (control units) (fixed threshold for C101 and C161N/H/L).

4 levels of performances

Compact circuit-breakers can meet 4 levels of performances:

- Compact E type (economical);
- Compact N type (standard);
- Compact H type different from the standard Compact by its high breaking capacity;
- current limiter Compact L type with a very high breaking capacity. (see table below).

Modular design

Compact circuit-breakers and switches are designed as modular, easy-to-fit, bolt-on, screw-on or clip-in units for simple design and layout of electrical installations and easy modifications.

The shunt trip or undervoltage release, and the auxiliary and alarm switches are fitted inside the breaker avoiding all risk of contact with live parts on all the Compact range.

Positive break indication

All Compact circuit-breakers ensure positive break indication. That means that the operating handle position reflects the position of the contacts and when the circuit breaker is in off position that all the fixed and moving contacts are separated by the required distance.

Tropicalization

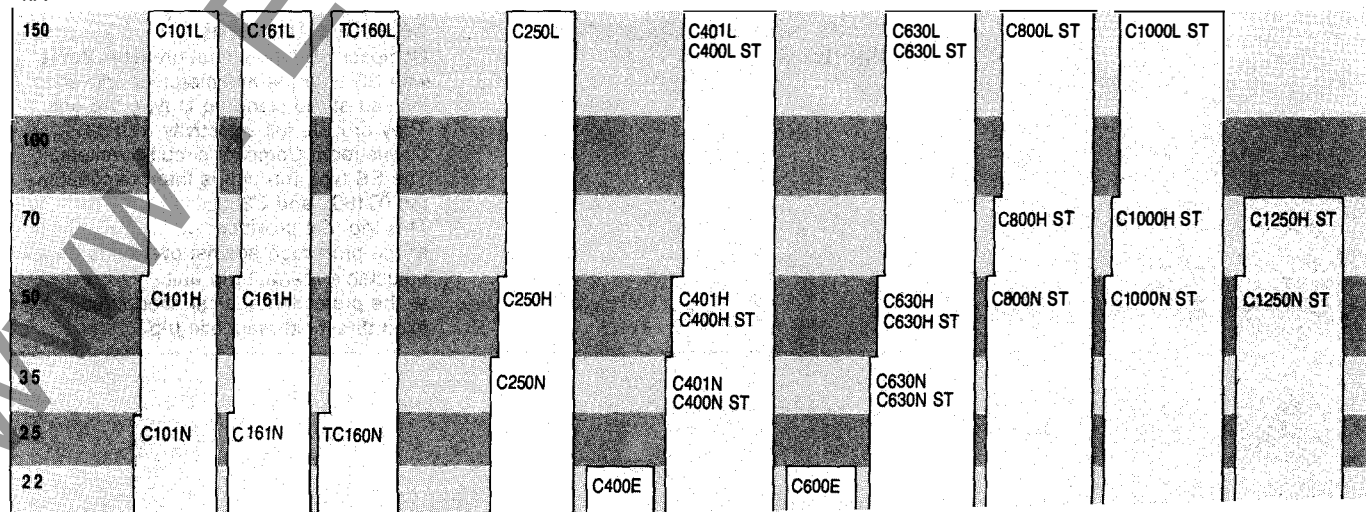
Compact and Compact derived breakers as well as their auxiliaries are tropicalized. They meet treatment 2 requirements NF C 63-100 standards. Rate of relative humidity is 95 % at 45 %, or 80 % at 55 °C (warm and humid climate).

Degree of protection

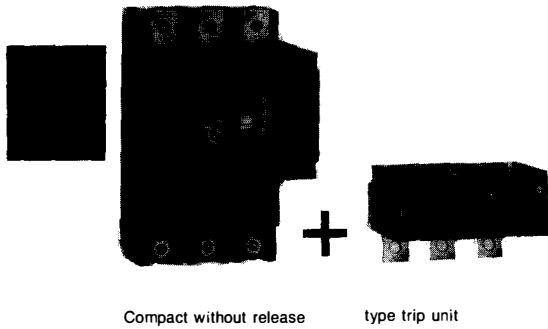
(standard NF C 20-010)

installation and type of operating	C101N/H/L C1250N/H
switchgear with terminal shields	
visible handle	IP403
switchgear in enclosures or cubicles	
visible handle	IP405
direct rotary handle	IP405
extended rotary handle	IP557
motor mechanism	IP405

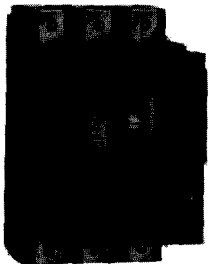
kA



circuit control and protection



Compact without release + type trip unit



Complete circuit-breaker

low magnetic threshold protection

protection against short-circuits with selectivity

protection against short-circuits with SELLIM system selectivity

Compact with standard D type trip unit

To ensure protection against overcurrents, Compact circuit-breakers are equipped with thermal-magnetic D type trip unit, interchangeable for TC160 to C630N/H/L (non interchangeable for C101 to C161N/H/L).

This trip unit provides:

- the protection against overloads by an adjustable thermal trip unit,
- the protection against short-circuits by an adjustable magnetic trip for C250 to C630N/H/L (fixed threshold for C101 to C161N/H/L)

Compact with G type trip unit

Compact G type circuit-breakers come with G type thermal-magnetic trip units instead of the standard D type trip unit. They provide protection against overloads downstream of engine generator sets. G type trip unit interchangeable for TC160 to C630N/H/L (non interchangeable for C101 to C161N/H/L).

This trip unit provides:

- the protection against overloads by an adjustable thermal trip unit,
- the protection against short-circuits by an adjustable magnetic trip for C250 to C630N/H/L (fixed threshold for C101 to C161N/H/L) with a lower threshold than the D type trip unit.

Compact with SA type selective trip unit

Compact SA type circuit-breakers come with SA type thermal-magnetic trip units instead of the standard D type trip unit. They improve protection selectivity on circuits subjected to heavy inrush currents (motor starting, no-load coupling of LV/LV transformers, etc.).

The SA type trip unit is fitted on C161H/L, and interchangeable for TC160N/L and C250N/H/L.

This trip unit provides:

- the protection against overloads by an adjustable thermal trip unit,
- the protection against short-circuits by a fixed threshold magnetic trip.

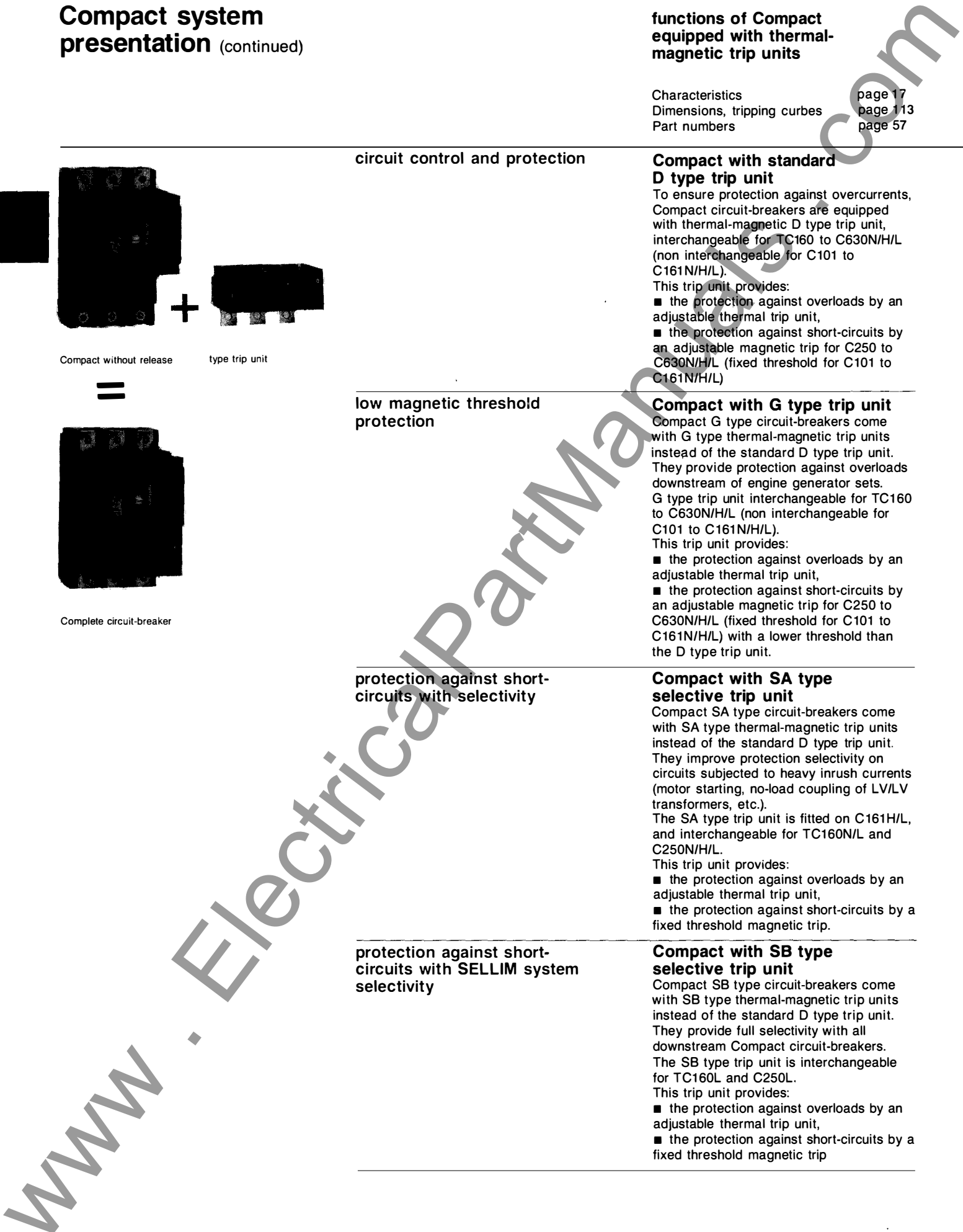
Compact with SB type selective trip unit

Compact SB type circuit-breakers come with SB type thermal-magnetic trip units instead of the standard D type trip unit. They provide full selectivity with all downstream Compact circuit-breakers.

The SB type trip unit is interchangeable for TC160L and C250L.

This trip unit provides:

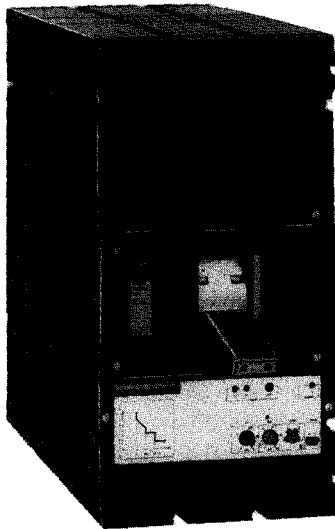
- the protection against overloads by an adjustable thermal trip unit,
- the protection against short-circuits by a fixed threshold magnetic trip



functions of Compact equipped with solid state trip units

Characteristics
Dimensions, tripping curves
Part numbers

page 30
page 113
page 57



Compact C1000L ST

circuit control and protection

Compact with control unit

The control unit is a solid state trip unit supplied by sensors built into the circuit-breaker.

It operates on its own current and combines the protection features conventionally offered by the type D, G, SA and SB thermal-magnetic trip units. The control unit offers 3 levels of protection:

- **long time** with adjustable setting for protection against overloads;
- **short time** with adjustable pick-up and delay for protection against short-circuits;
- **instantaneous** with fixed pick-up for protection against very high short-circuits.

standard protection

Compact with control unit ST204S ou ST205D

Depending on the Compact circuit-breaker type and rating, standard protection is provided by the following control units:

- **ST204S** for Compact C400N/H/L ST and C630N/H/L ST;
- **ST205D** for Compact C800N/H/L ST to C1250N/H ST.

short-time low threshold protection

Compact with control unit ST305G

Control unit ST305G is for Compact C800N/H ST to C1250N/H ST circuit-breakers.

It is specially designed for the protection of generators, long cables, etc. (high impedance circuits).

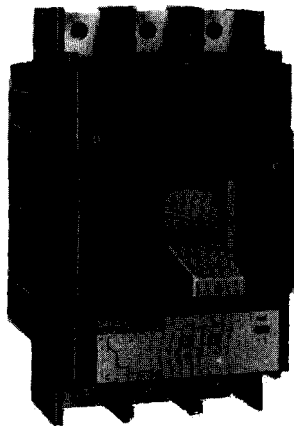
protection against short-circuits with selectivity

Compact with control unit ST204S, ST305S or ST305SL

Depending on the Compact circuit-breaker type and rating, this protection is provided by the following control units:

- **ST204S** for Compact C400N/H/L ST and C630N/H/L ST;
- **ST305S** for Compact C800N/H/L ST to C1250N/H ST;
- **ST305SL** for Compact C800L ST and C1000L ST.

These control units provide short-circuit protection with **time discrimination**.



Compact C630L ST

protection against short-circuits with SELLIM system selectivity

Compact with control unit ST204SB or ST305SB

Depending on the Compact circuit-breaker type and rating, this protection is provided by the following control units:

- **ST204SB** for Compact C400L ST and C630L ST;
- **ST305SB** for Compact C800L ST and C1000L ST.

These control units are for Compact type L current limiting circuit-breakers.

They combine the advantages of current limiting and cascading, and provide **full selectivity** with all downstream Compact circuit-breakers.

other functions

Compact C800N/H/L ST to C1250N/H ST circuit-breakers can be equipped with the following complementary functions:

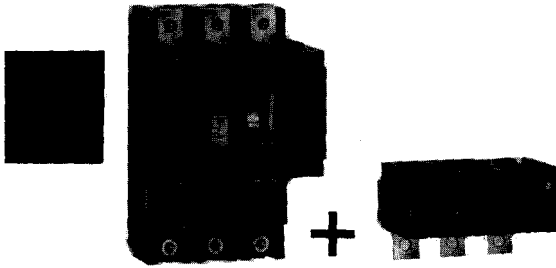
- **ground fault protection** (options T and Tz),
- **load monitoring and control** (option R),
- **fault indicator**

Compact system presentation (continued)

Compact circuit-breaker for starter protection Compact load break switch

Characteristics pages 17 and 104
Dimensions, tripping curves page 113
Part numbers pages 57 and 104

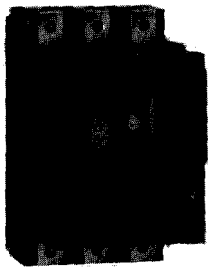
starter protection



Compact without release

MA type trip unit

=



Compact type MA

Compact with MA type trip unit

Compact MA type circuit-breakers offer magnetic protection only. The MA trip unit can be fitted on Compact C101 to C630N/H/L.

Protection of motors starters

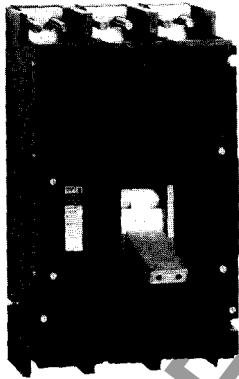
The starter, which consists of a contactor and a thermal relay, ensures remote control and protection against overloads. By protecting this starter by a **Compact MA type** circuit-breaker, the combination benefits from the functions and additional possibilities of the breaker:

- **control:** in addition to the normal operating manoeuvres, the Compact MA allows easy and safe on-load opening, particularly during starting, or in case of locking of the rotor.
- **protection against short-circuits:** the Compact MA type circuit-breaker ensures the opening of all the poles with indication given by the position of the handle (OFF, ON, TRIPPED).
- **isolating:** the Compact MA type circuit-breaker can be used to isolate circuits with positive break indication.
- **complementary functions:** earth leakage protection, emergency tripping by shunt trip or undervoltage release, signalling by auxiliary contacts, etc.

Magnetic protection only

Case of protection against short-circuits without the protection against overloads (LV/LV transformer).

circuit control



Compact C800NI load break switch

Compact type NI load break switches

Compact type NI load break switches are derived from Compact circuit-breakers, with the trip unit replaced by a type NI switch unit used to latch the operating mechanism.

They provide positive break indication and may be used for applications such as:

- coupling of two networks,
 - secondary switchboard input switch,
 - isolation of a motor from the network.
- Compact type NI load break switches can be fitted with the same auxiliaries and accessories as Compact circuit-breakers: auxiliary switches, voltage releases, remote control systems, Vigi modules, locks, etc.

The same functions can therefore be provided including:

- residual current protection,
- remote opening and closing,
- manual or automatic source changeover.

Vigicomact circuit-breaker
Compact circuit-breaker with
separate residual current relay

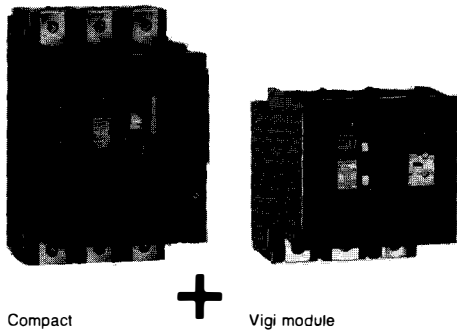
Characteristics page 17
 Dimensions, tripping curves page 113
 Part numbers page 57

residual current protection

Residual current protection is used to provide several important functions:

- protection of persons against direct contact (IT and TN grounding systems),
- additional protection of persons against indirect contact (TT grounding systems),
- protection of equipment and property against the risk of damage or fire caused by earth fault currents.

The devices presented below are protected against inadvertent tripping.



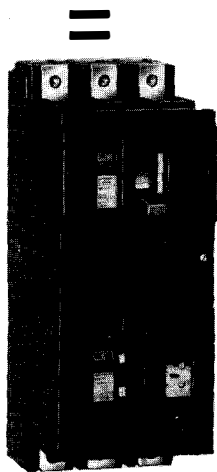
Compact + Vigicomact

residual current protection by an add-on module

Vigicomact
 The Vigicomact is made up of a Compact C101N/H/L to C630N/H/L ST circuit-breaker with one of the following types of clip-in Vigicomact modules:

- **REH** for the Vigicomact C101N/H/L to C250N/H/L,
- **RMM** for the Vigicomact C101N/H/L and C161N/H/L,
- **REM** for the Vigicomact C401N/H/L to C630N/H/L ST.

The Vigicomact modules are interchangeable and may be fitted with lead seals.



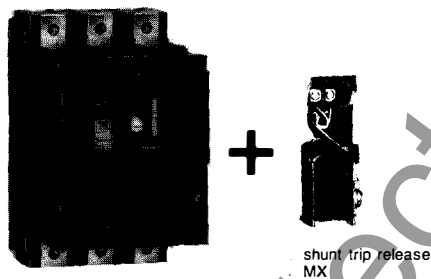
Vigicomact

residual current protection by a separate residual current relay

Compact with Vigirex and separate toroid type sensor
 This type of residual current protection can be implemented on all Compact circuit-breakers from C101N/H/L to C1250N/H ST and on Compact type NI load break switches.

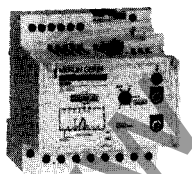
It consists of:

- a Compact circuit-breaker or load break switch,
- a voltage release,
- a separate Vigirex residual current relay,
- a separate toroid type sensor.

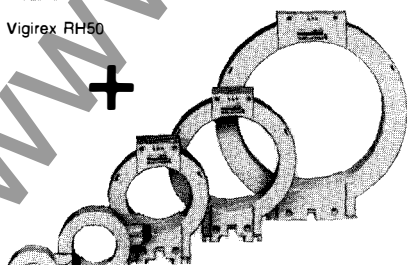


Compact C250N

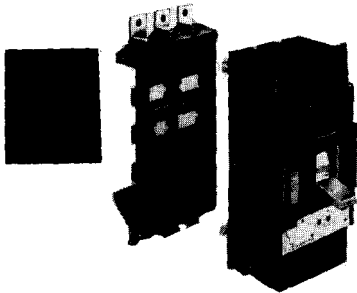
shunt trip release MX



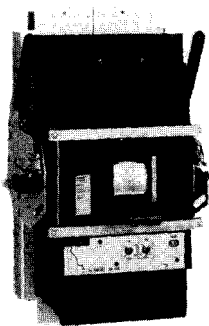
Vigirex RH50



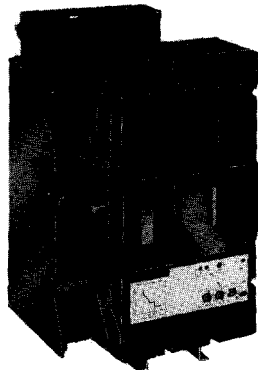
withdrawability



plug-in Compact and base



drawout chassis



Compact C1250N drawout version

withdrawable Compacts

The withdrawable function allows:

- removal of circuit-breaker without touching live parts,
- fast interchanging of devices,
- prewiring of extra fixed parts ready for easy fitting of the moving portion when additional outgoing circuits become necessary.

All withdrawable Compact circuit-breakers come with an automatic tripping device eliminating all danger of on-load withdrawal. The auxiliary circuits are disconnected at the same time as the power circuits.

Compact plug-in version with base

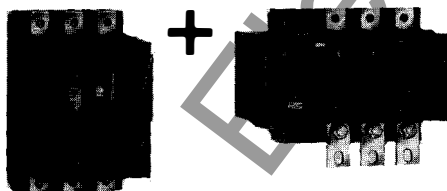
Compact C101N/H/L to C630N/H/L ST fixed circuit-breakers can be made withdrawable by adding a set of connecting pins and a plug-in base.

Compact with drawout chassis

The drawout chassis is supplied as:

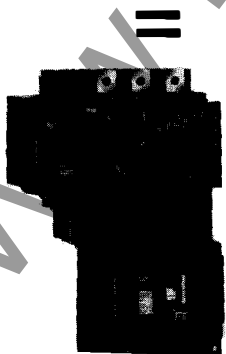
- the standard withdrawable version for Compact C800N/H/L ST to C1250N/H ST circuit-breakers,
 - a complementary version for Compact C161N/H/L to C630N/H/L ST plug-in circuit-breakers with base.
- Compact circuit-breakers on drawout chassis can be moved to three positions:
- « connected » position with power and auxiliary circuits connected,
 - « disconnected » position with power and auxiliary circuits disconnected,
 - « fully withdrawn » position for checks requiring removal of the moving portion of the circuit-breaker from the chassis.

fully visible break



Compact

Visu module



Visucompact

Fully visible break, for all cases requiring visual proof of isolation between supply and load circuits for safety of persons, is provided by Visucompact circuit-breakers. These devices are available in fixed and drawout versions:

- fixed Visucompact C161N to C1250N ST comprising:
 - a fixed Compact circuit-breaker,
 - a Visu module which can be locked in « OFF » position by a padlock or keylock.
 The Visu module provides the fully visible break and allows on-load opening of the device.
- drawout Visucompact C800N ST to C1250N ST comprising:
 - a moving chassis as for the Compact circuit-breaker of the same rating, complete with an operating mechanism compartment and a handle extension.
 - a fixed part identical to that of the Compact of the same rating, complete with safety shutters blocking access to the power contacts and a « disconnected »

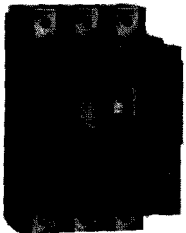
remote control automatic source changeover

Characteristics page 17
Dimensions, tripping curves page 113
Part numbers page 57

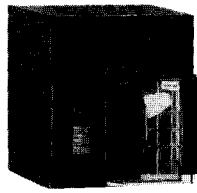
remote control



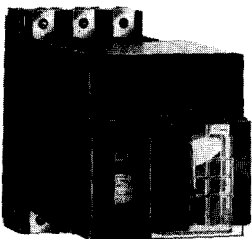
built-in remote control unit for Compact TC160N/L



Compact



motor mechanism



motorised Compact

The remote control comprises a unit which is fitted onto the front of the Compact circuit-breaker.

This unit contains the electrical and mechanical parts which are able to actuate the circuit-breaker on remotely sent orders. This association enables the following to be performed:

- remote opening and closing,
- protection of circuits against overloads and short-circuits,
- positive break indication, maintained with the remote control, and indicated by the position of the breaking devices.

This remote control can act:

- on orders from push-buttons, switches or relays,
- locally by action on the mechanical devices located on the front of the unit.

Compact TC160N/L

The Compact TC160N/L is a Compact circuit-breaker equipped with a **built-in remote control**.

It is mainly used for:

- remote control and protection of distribution circuits (lighting, heating, air conditioning, overall control of a workshop, etc.);
- special purposes such as general protection of installations accessible with difficulty (unit in weatherproof or explosion-proof enclosure, unit fitted outside dangerous or wet locations);
- load shedding/restoring of non-priority circuits.

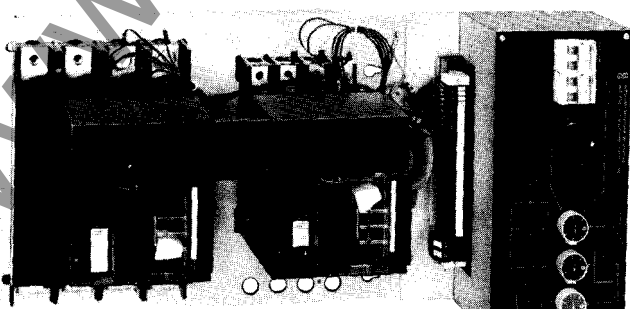
adaptable motor mechanism

The adaptable motor mechanism is an add-on unit which can be easily fitted on the front of the Compact circuit-breaker. It is used for remote control of circuits with low operating frequencies.

The Compact C250N/H/L to C1250N/H can take 2 types of remote control:

- the T type unit enabling:
 - daily opening and closing of a circuit from a control desk.
 - load shedding/restoring of non-priority circuits,
 - automatic source changeover.
- the TS type unit which offers, in addition of the functions of the T type, the possibility of performing high-speed closing synchrocoupling operations.

automatic source changeover



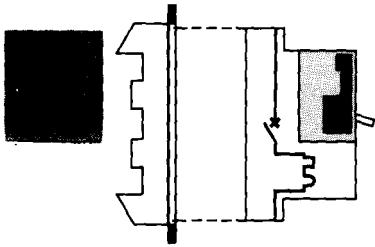
The automatic source changeovers of the Compact range are composed of:

- a **base plate**;
- **2 Compact (circuit-breakers or switch)** rating 160 to 1250 A with mechanical and electrical interlock.

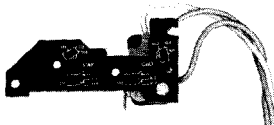
These breakers can be:

- the same
- different with respect to type rating or trip unit (see next page);
- **2 type motor mechanism** (1 per breaker);
- an **automatism plate** in one single piece with terminal block for external connections.

remote indications
remote tripping



2 OF block



CAM block

auxiliary switches,
voltage releases

A range of auxiliary contacts, shunt trips and undervoltage releases equips all Compact circuit-breakers and their derived products.

These auxiliaries are fitted inside the circuit-breaker without any difficulty. Regarding particularly the Compact C100E to C600E and C101N/H/L to C1250N/H ST, they are simply clipped in without any risk of contact with the live parts.

standard auxiliaries

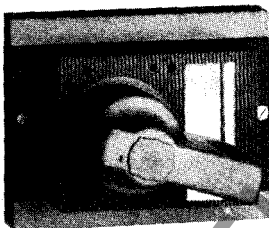
- **OF contact double throw switch**
Used for a signal or a control linked with the "OFF" or "ON" position.
- **SD contact double-throw switch**
Used for indication when the breaker opens on any fault (overload, short-circuit, earth leakage, tripping by MX or MN).
- **SDE contact**
Used for indication when the breaker opens on an electrical fault (overload, short-circuit or earth leakage).
- **MX voltage release** for shunt tripping;
- instantaneous or delayed **MN voltage release** for undervoltage tripping.

standard auxiliaries

For Visu module or rotary operating handle

- **CAM early break contact** with advanced action before the operation of the main contacts of the circuit-breaker (opening or closing depending on the way the contact is fitted). General used to initiate an early break on downstream devices.

front operation



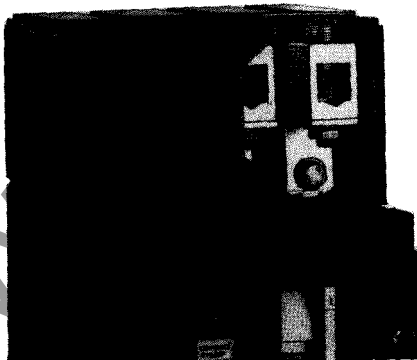
direct rotary handle

rotary handle

Compact C101N/H/L to C1250N/H ST circuit-breakers can be equipped with rotary handles:

- **standard direct rotary handle;**
- **type MCC direct rotary handle,** for Compact C101N/H/L to C250N/H/L.
- **extended rotary handle with door locking** when circuit-breaker is in "ON" position ; available with short or long extension shaft;
- **extended rotary handle without door locking,** with short extension shaft.

installation



A large range of accessories is available for easy installation and operation of Compact circuit-breakers.

Sealing accessories for tamperproofing of Compact cover, terminal shields and settings.

Label holders, adaptable to the front face of Compact circuit-breakers for identification purposes.

Door cut-out grommet designed to cover the perimeter of the door cut-out for the handle, making a precise door cut-out unnecessary.

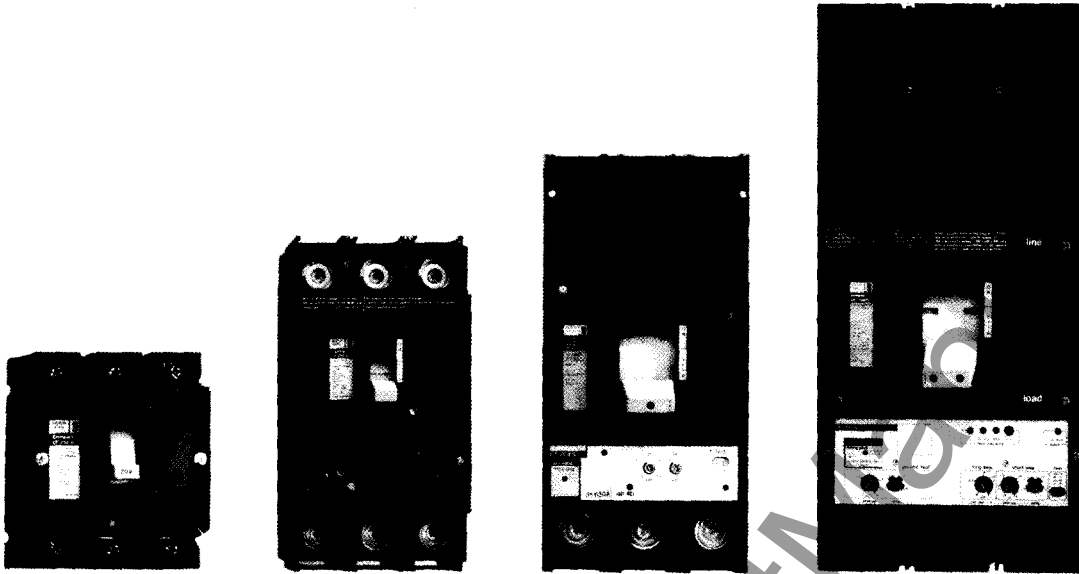
Tight bellows designed to seal the handle passage through the door.

Locator designed to prevent the moving part of a Compact N or H from being plugged into the base of a Compact L.

Terminal shields, designed to prevent

Compact circuit-breakers UL listed

Characteristics, Dimensions and
Part numbers: consult us.



CK	800	N
breaking capacity		
N: normal		
H: high breaking		
L: current limiting		
exception: Compact CM...NN or NE		
NN: 100 % rated		
NE: standard rated		
max rating		
frame size		
CM:	3000A	3-pole
CK:	1200A	3-pole
CJ:	600A	3-pole
CF:	250A	2-pole and 3-pole
CE:	100A	1-pole, 2-pole and 3-pole
	240V: CE 102,	
	480V: CE 104,	
	600V: CE 106	

Approvals for North America

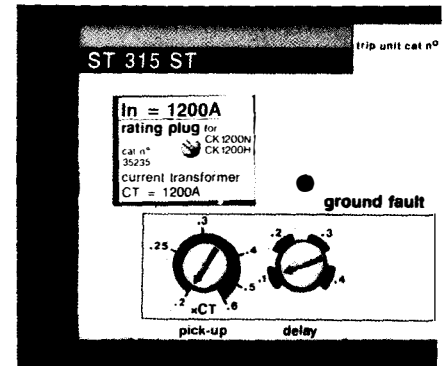
Specifications for low voltage circuit-breakers in the USA are very different from those in most other industrialized countries and stipulate special approvals for all devices. The necessary approval is delivered by Underwriters Laboratory and indicated by the UL mark.

The Compact UL range

The UL range includes devices rated from 15 to 3000 A and offers three breaking capacity levels. It differs from the IEC range by:

- device designations: see opposite.
- performance indications based on American voltages, e.g. 480 V 60 Hz. See table opposite.
- cable connectors complying with UL 486 B for copper and aluminium cables.
- rating plug on solid state trip units: American standards forbid the use of a circuit-breaker for which the long time setting could be adjusted to a value

exceeding the thermal withstand of the cables or busbars. To satisfy this requirement, it is necessary either to offer a large number of different ratings or a basic breaker with rating plugs determining the maximum setting value. Consult us for appropriate documentation.



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low voltage mccb's

Compact 11 to 1250 A

2 characteristics

	page
tables of performances for	
Merchant Marine and off-shore	18
mccb's selection table of	
Compact C100E to C600E	19
Compact C100NF to C1250N ST	20
Compact C101H to C1250H ST	22
Compact C101L to C1000L ST	24
trip unit selection table for	
Compact C100E to 161L	26
Compact TC160N to C630L	28
Compact C400N ST to C1250H ST	30
Vigicomact ELCB selection table	32
cascading	34
auxiliaries	40
remote control	41
automatic source changeover	42
wiring diagrams	44
accessories	50
installation	54
ordering information	56

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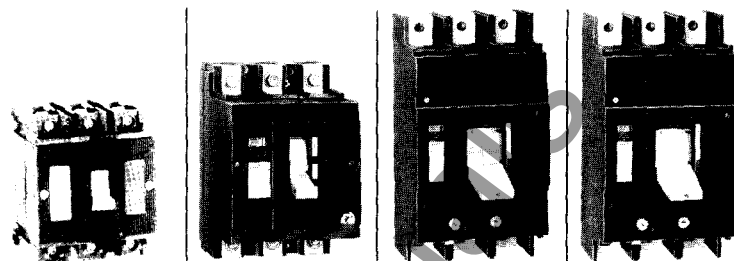
characteristics selection table: circuit breakers

Description
Dimensions
Part numbers

page 5
page 113
page 57

economical range
(type E)

Compact with thermal magnetic trip unit



		Compact	C100E	C225E	C400E	C600E				
electrical characteristics	rated current (A) at	40 °C	100	225	400	600				
		50 °C	95	213	380	560				
		60 °C	90	200	360	516				
	rated voltage (V)	AC 50/60 Hz	500	500	500	500				
		DC								
	number of poles		3	3	3	3				
	positive break indication		■	■	■	■				
	breaking capacity AC (kA rms)*									
	IEC-P1 (O-CO cycle),	220/240 V	25	25	30	30				
	UTE-P1, VDE I''K2, BS, NBN,	380/415 V	10	10	22	22				
	440 V	8	8	18	18					
	500 V									
	660 V									
Nema AB1	240 V	25	25	30	30					
	480 V	8	8	18	18					
	600 V									
	breaking capacity DC (kA) L/R ≤ 0.015 s	≤ 250 V								
		500								
trip units	interchangeable									
	built-in	■	■	■	■					
thermal-magnetic	type D	■	■	■	■					
	type G (generator protection)									
	type S, SA (selective)									
	type SB (selective Sellim)									
	type MA (motor protection)									
solid state	type ST205D									
	type ST305G									
	type ST204S									
	type ST204SB									
	type ST305S									
	type ST305SL									
	type ST305SB									
options	fault indicators									
	ground fault									
	load shedding									
models	Vigicompact (ELCB)									
	Visucompact (visible break CB)									
	automatic source changeover									
	manual source changeover									
	Compact switch type NI									
auxiliaries	auxiliary switch (OF, CAM)	■	■	■	■					
	alarm switch (SD, SDE)	■	■	■	■					
	shunt trip (MX)	■	■	■	■					
	undervoltage release (MN)		■	■	■					
	motor mechanism (T, TS)									
accessories	terminal shields	■	■	■	■					
	connection accessories	■	■	■	■					
	padlocking device		■	■	■					
	locking devices									
	rotary handles									
installation	versions	front or rear connected	FC	RC	FC	RC	FC	RC	FC	RC
		fixed	■		■		■		■	
		plug-in								
	dimensions (mm)		H	W	D	H	W	D	H	W
	fixed FC 3P	128	105	105	155	105	139	290	157.5	171
	4P									
	weights	fixed FC 3P	1.3		1.7			5.4		5.4

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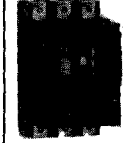
characteristics

selection table: circuit-breakers (continued)



standard range
(type N)

Compact with thermal magnetic trip unit



	Compact	C100NF F150N C100NF/F150N	C101N	C161N	TC160N	C250N											
electrical characteristics	rated current (A) at	40 °C	100	100	160	160	250										
		50 °C	95	95	150	150	235										
		60 °C	95	142	90	140	140	220									
	rated voltage (V)	AC 50/60 Hz	277	660	660	660	660										
		DC		500	500	500	500										
	number of poles		1	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4										
	positive break indication			■	■	■	■										
	breaking capacity AC (kA rms)*																
	IEC-P1 (O-CO cycle),	220/240 V	15	100	85	85	85										
	UTE-P1, VDE I ¹ K2,	380/415 V		25	25	25	35										
BS, NBN, AS,	440 V		20	18	18	22											
CEI, SABS	500 V(2)		13 (12 for 15 A)	14	12	15											
	660 V(2)		10 (8 for 15 A)	8	8	10											
Nema AB1	240 V	14 (277 V)	85	85	85	85											
	480 V			18	18	22											
	600 V(2)			10	12	12											
breaking capacity DC	≤ 250 V		25 (2P)(1)	35 (2P)(1)	35 (2P)(1)	50 (2P)(1)											
(kA) L/R ≤ 0.015 s	500 V(2)		25 (4P)(1)	35 (4P)(1)	35 (4P)(1)	50 (4P)(1)											
trip units	interchangeable				■	■											
	built-in	■	■	■													
thermal-magnetic	type D	■	■	■	■	■											
	type G (generator protection)		■	■	■	■											
	type S, SA (selective)				■	■											
	type SB (selective Sellim)					■											
	type MA (motor protection)				■	■											
solid state (3)	type ST205D																
	type ST305G																
	type ST204S																
	type ST204SB																
	type ST305S																
	type ST305SL																
	type ST305SB																
options	fault indicators																
	ground fault																
	load shedding																
models	Vigicompact (ELCB)		■	■	■	■											
	Visucompact (visible break CB)			■	■	■											
	automatic source changeover				■	■											
	manual source changeover		■	■	■	■											
	Compact switch type NI		■	■	■	■											
auxiliaries	auxiliary switch (OF, CAM)		■	■	■	■											
	alarm switch (SD, SDE)		■	■	■	■											
	shunt trip (MX)		■	■		■											
	undervoltage release (MN)		■	■		■											
	motor mechanism (T, TS)					■ built-in	■										
accessories	terminal shields		■	■	■	■											
	connection accessories	■ built-in	■ built-in	■	■	■											
	padlocking device	■	■	■	■ built-in	■											
	locking devices		■	■		■											
	rotary handles		■	■		■											
installation	versions																
	front or rear connected	FC	RC	FC	RC	FC	RC	FC	RC	FC	RC						
	fixed	■		■	■	■	■	■	■	■	■						
	plug-in			■	■	■	■	■	■	■	■						
	dimensions (mm)																
	fixed FC 3P	H	W	D	H	W	D	H	W	D	H	W	D				
	4P	128	155	35	105	139	128	105	124	155	105	139	210	105	185	230	140
weights (kg)																	
fixed FC 3P	0.6 (1P)	0.7 (1P)	1.6	1.7	4	3.7											
4P			2	2.1	4.8	4.2											

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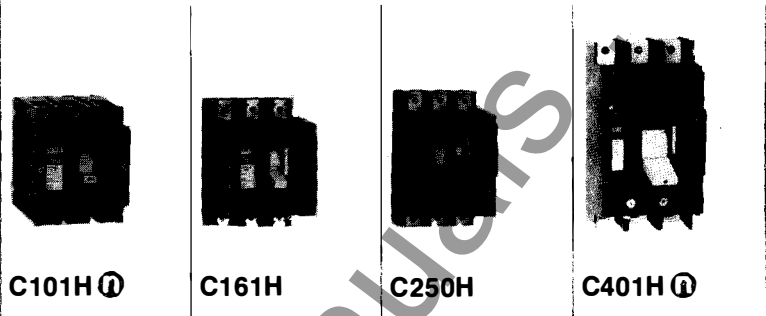
characteristics

selection table: circuit-breakers (continued)



high breaking capacity
(type H)

Compact with thermal magnetic trip unit



	Compact	C101H	C161H	C250H	C401H								
electrical characteristics	rated current (A) at 40 °C	100	160	250	400								
	50 °C	95	150	235	380								
	60 °C	90	140	220	360								
	rated voltage (V) AC 50/60 Hz	660	660	660	660								
	DC	500	500	500	500								
	number of poles	2, 3, 4	3, 4	3, 4	3, 4								
	positive break indication	■	■	■	■								
	breaking capacity AC (kA rms)*												
	IEC-P1 (O-CO cycle), UTE-P1, VDE I ¹ K2, BS, NBN, AS, CEI, SABS	220/240 V 100 380/415 V 50 440 V 42	85 50 22	85 50 25	85 50 25								
	Nema AB1	500 V(2) 25 (12 for 15 A) 660 V(2) 15 (10 for 15 A) 240 V 85 480 V 18 600 V(2) 10	14 10 85 18 10	18 12 85 25 14	18 12 85 25 14								
breaking capacity DC (kA) L/R ≤ 0.015 s	≤ 250 V 50 (2P)X1 500 V(2) 50 (4P)X1	50 (2P)X1 50 (4P)X1	85 (2P)X1 85 (4P)X1	85 (2P)X1 85 (4P)X1									
trip units	interchangeable												
	built-in	■	■	■									
thermal-magnetic	type D	■	■	■	■								
	type G (generator protection)			■	■								
	type S, SA (selective)		■	■									
	type SB (selective Sellim)			■									
	type MA (motor protection)	■	■	■	■								
solid state (3)	type ST205D												
	type ST305G												
	type ST204S												
	type ST204SB												
	type ST305S												
	type ST305SL												
	type ST305SB												
options	fault indicators												
	ground fault												
	load shedding												
models	Vigicompact (ELCB)	■	■	■	■								
	Visucompact (visible break CB)												
	automatic source changeover			■	■								
	manual source changeover	■	■	■	■								
auxiliaries	Compact switch type NI	■	■	■	■								
	auxiliary switch (OF, CAM)	■	■	■	■								
	alarm switch (SD, SDE)	■	■	■	■								
	shunt trip (MX)	■	■	■	■								
	undervoltage release (MN)	■	■	■	■								
accessories	motor mechanism (T, TS)												
	terminal shields	■	■	■	■								
	connection accessories	■ built-in	■	■	■								
	padlocking device	■	■	■	■								
	locking devices	■	■	■	■								
installation	rotary handles	■	■	■	■								
	versions	front or rear connected	FC	RC	FC	RC	FC	RC	FC	RC			
	fixed	■	■	■	■	■	■	■	■	■			
	plug-in	■	■	■	■	■	■	■	■	■			
	dimensions (mm)		H	W	D	H	W	D	H	W	D		
	fixed FC 3P	128	105	124	155	105	139	230	140	145	290	157.5	171
	4P	128	140	124	155	140	139	230	185	145	290	210	171
	weights (kg)												
	fixed FC 3P	1.6			1.7			3.7			5.4		
	4P	2			2.1			4.2			6.5		

*defined for a p.f. of:
 ■ 0.5 if 6 < kA rms ≤ 10.
 ■ 0.3 if 10 < kA rms ≤ 20.
 ■ 0.25 if 20 < kA rms ≤ 50.
 ■ 0.2 if kA rms > 50.



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characteristics

selection table: circuit-breakers (continued)



very high breaking capacity
(type L)

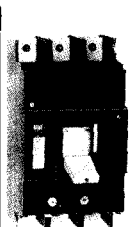
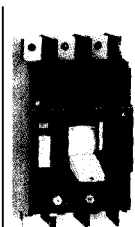
Compact with thermal magnetic trip unit



	Compact	C101L	C161L	TC160L	C250L									
electrical characteristics	rated current (A) at	40 °C	100	150	150	235								
		50 °C	95	140	140	223								
		60 °C	90	130	130	211								
	rated voltage (V)	AC 50/60 Hz	660	660	660	660								
		DC	500	500	500	500								
	number of poles		3, 4	3, 4	3, 4	3, 4								
	positive break indication		■	■	■	■								
	breaking capacity AC (kA rms)*													
	IEC-P1 (O-CO cycle), UTE-P1, VDE I ¹ K2, BS, NBN, AS, CEI, SABS	220/240 V	150	150	150	150								
		380/415 V	150	150	150	150								
	440 V	125	150	150	150									
	500 V(2)	100	100	100	100									
	660 V(2)	50	50	50	60									
Nema AB1	240 V	150	150	150	150									
	480 V	100	100	100	100									
	600 V(2)	50	50	85	85									
	breaking capacity DC (kA) L/R ≤ 0.015 s	≤ 250 V	100 (2P) ⁽¹⁾	100 (2P) ⁽¹⁾	100 (2P) ⁽¹⁾	100 (2P) ⁽¹⁾								
		500 V(2)	100 (4P) ⁽¹⁾	100 (4P) ⁽¹⁾	100 (4P) ⁽¹⁾	100 (4P) ⁽¹⁾								
trip units	interchangeable			■	■									
	built-in	■	■											
thermal-magnetic	type D	■	■	■	■									
	type G (generator protection)			■	■									
	type S, SA (selective)		■	■	■									
	type SB (selective Sellim)			■	■									
	type MA (motor protection)	■	■	■	■									
solid state (3)	type ST205D													
	type ST305G													
	type ST204S													
	type ST204SB													
	type ST305S													
	type ST305SL													
	type ST305SB													
options	fault indicators													
	ground fault													
	load shedding													
models	Vigicompact (ELCB)	■	■	■	■									
	Visucompact (visible break CB)													
	automatic source changeover			■	■									
	manual source changeover	■	■		■									
	Compact switch type NI													
auxiliaries	auxiliary switch (OF, CAM)	■	■	■	■									
	alarm switch (SD, SDE)	■	■	■	■									
	shunt trip (MX)	■	■		■									
	undervoltage release (MN)	■	■		■									
	motor mechanism (T, TS)			■ built-in	■									
accessories	terminal shields	■	■	■	■									
	connection accessories	■ built-in	■	■	■									
	padlocking device	■	■	■	■									
	locking devices	■	■	■	■									
	rotary handles	■	■	■	■									
installation	versions	front or rear connected	FC	RC	FC	RC	FC	RC	FC	RC				
		fixed	■	■	■	■	■	■	■	■				
		plug-in	■	■	■	■	■	■	■	■				
	dimensions (mm)		H	W	D	H	W	D	H	W	D			
		fixed FC 3P	218	105	124	185	105	214	238	105	260	263	140	220
		4P	218	140	124	185	140	214	238	140	260	263	185	220
	weights (kg)													
		fixed FC 3P	3.1			4.3			7.1			8.5		
		4P	3.5			5.6			9.0			10		

⁽¹⁾ depending on DC current

Compact with solid state trip unit



C401L 1P

C630L

C400L ST

C630L ST


C800L ST

C1000L ST

C401L 1P			C630L			C400L ST			C630L ST			C800L ST			C1000L ST		
350			550			350			550			800			1000 - (910)(4)		
325			520			325			520			780			950 - (870)(4)		
300			490			300			490			760			880 - (800)(4)		
660			660			660			660			660			660		
500			250														
3, 4			3, 4			3, 4			3, 4			3, 4			3, 4		
■			■			■			■			■			■		
150			150			150			150			150			150		
150			150			150			150			150			150		
150			150			150			150			150			150		
100			100			100			100			100			100		
60			50			60			50			60			60		
150			150			150			150			150			150		
100			100			100			100			150			150		
85			50			85			50			65			65		
100 (2P)(1)			100 (2P)(1)														
100 (4P)(1)																	
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
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■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
FC	RC		FC	RC		FC	RC		FC	RC		FC	RC		FC	RC	
■	■		■	■		■	■		■	■		■	■		■	■	
■	■		■	■		■	■		■	■		■	■		■	■	
H	W	D	H	W	D	H	W	D	H	W	D	H	W	D	H	W	D
290	157.5	246	290	157.5	246	290	157.5	246	290	157.5	246	374	210	262	374	210	262
290	210	246	290	210	246	290	210	246	290	210	246	374	280	262	374	280	262
10			10			10			10			25			25		
12.2			12.2			12.2			12.2			33			33		

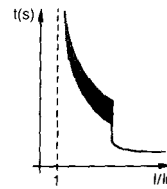
characteristics selection table: trip units



for Compact		C100E	C225E	C400E	C600E
release unit	interchangeable				
	built-in	■	■	■	■
standard trip unit					
type D thermal-magnetic	thermal	fixed threshold	fixed threshold	fixed threshold	fixed threshold
	Ir (A) continuous current setting	rating Ir at : 40°C 50°C 60°C	rating Ir at : 40°C 50°C 60°C	rating Ir at : 40°C 50°C 60°C	rating Ir at : 40°C 50°C 60°C
		15 15 14 14 20 20 19 18 30 30 29 27 40 40 38 36 50 50 48 45 60 60 57 54 80 80 76 72 100 100 95 90	125 125 117 109 150 150 142 132 175 175 165 155 200 200 187 172 225 225 213 200	250 250 236 221 300 300 285 269 350 350 326 300 400 400 380 360	500 500 470 440 600 600 560 516
	magnetic	fixed threshold	fixed threshold	fixed threshold	fixed threshold
	Irm (A) min. and max. threshold 2 poles loaded	rating Irm 15 300 20 300 30 300 40 350 50 400 60 800 80 800 100 800	rating Irm 125 875 150 1050 175 1750 200 2000 225 2250	rating Irm 250 2500 300 3000 350 3500 400 4000	rating Irm 500 5000 600 6000
other trip units					
type G low magnetic release	thermal				
	magnetic Irm (A) max. and min. threshold 2 poles loaded				
type SA selective release	thermal				
	magnetic Irm (A)				
	instantaneous protect. I (A)				
type SB Sellim selective release (full discrimination with all downstream breaker)	thermal				
	magnetic Irm (A)				
type MA magnetic release only	thermal				
	magnetic I max (A) maximum continuous current at 65°C Irm (A) max. and min. threshold 2 poles loaded				



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Tripping curves
Description


C100NF F150N	C101N $\text{\textcircled{D}}$ C101H	C101L $\text{\textcircled{D}}$	C161N C161H	C161L
■	■	■	■	■
fixed threshold	adj. 0.7 to 1 x Ir	adj. 0.7 to 1 x Ir	adj. 0.7 to 1 x Ir ⁽¹⁾	adj. 0.7 to 1 x Ir ⁽¹⁾
rating Ir at : 40°C 50°C 60°C 15 15 14 20 20 19 30 30 29 40 40 38 50 50 48 60 60 57 80 80 77 100 100 95 125 125 118 150 150 142 } C100NF } F150N	rating Ir at : 40°C 50°C 60°C 15 15 14.3 13.6 25 25 23.5 22.3 40 40 38 35.6 63 63 60.5 57.3 80 80 76.8 72.8 100 100 95 90	rating Ir at : 40°C 50°C 60°C 15 15 14.3 13.6 25 25 23.5 22.3 40 40 38 35.6 63 63 60.5 57.3 80 80 76.8 72.8 100 100 95 90	rating Ir at : 40°C 50°C 60°C N/2 80 80 74 68 40 100 100 94 88 63 125 125 117 109 63 160 160 150 140 80	rating Ir at : 40°C 50°C 60°C N/2 80 80 74 68 40 100 100 94 88 63 125 125 117 109 63 160 150 142 132 80
rating I _{rm} 15 300 20 300 30 300 40 400 50 400 60 800 80 800 100 800 125 875 150 1050 } C100NF } F150N	rating I _{rm} (C101N only) 15 130 25 200 40 320 63 500 80 640 100 800	rating I _{rm} 15 130 25 200 40 320 63 500 80 640 100 800	rating I _{rm} (C161N only) 80 560 100 700 125 825 160 1120	rating I _{rm} 80 560 100 700 125 825 160 1120
	0.7 to 1 x Ir		0.75 to 1 x Ir	
	fixed threshold		fixed threshold	
	rating I _{rm} (C101N only) G15 85 G25 100 G40 120 G63 190 G80 240 G100 300		rating I _{rm} (C161N only) G63 160 G80 200 G100 250 G125 320 G160 400	
			same as D type	same as D type
			fixed threshold	fixed threshold
			rating I _{rm} (C161H only) SA80 2000 SA100 2000 SA125 2000 SA160 2000	rating I _{rm} SA80 2000 SA100 2000 SA125 2000 SA160 2000
			2000	2000
	without	without	without	without
	adj. 5 to 12.5 x Ir	adj. 5 to 12.5 x Ir	fixed threshold	fixed threshold
	rating I max (C101H only) MA2.5 2.5 MA6.3 6.3 MA12.5 12.5 MA25 25 MA50 50 MA100 100	rating I max MA2.5 2.5 MA6.3 6.3 MA12.5 12.5 MA25 25 MA50 50 MA100 100	rating I max I _{rm} (C161H only) MA100 100 1250 MA125 125 1600 MA160 160 2000	rating I max I _{rm} MA100 100 1250 MA125 125 1600 MA160 160 2000

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characteristics

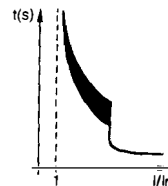
selection table : trip units (continued)



for Compact		TC160N	TC160L	C250N C250H
release unit	interchangeable built-in	■	■	■
standard trip units				
type D thermal-magnetic 	thermal Ir (A) continuous current setting	adj. 0.63 to 1 × Ir rating Ir at : N/2 40°C 50°C 60°C (A) D25 25 28 21 — D40 40 38 35 — D63 63 59 55 — D100 100 94 88 63 D160 160 150 140 100	adj. 0.63 to 1 × Ir rating Ir at : N/2 40°C 50°C 60°C (A) D25 25 23 21 — D40 40 38 35 — D63 63 59 55 — D100 100 94 88 63 D160 150 140 130 100	adj. 0.7 to 1 × Ir ⁽¹⁾ rating Ir at : N/2 40°C 50°C 60°C (A) D200 200 190 180 100 D250 250 235 220 125
	magnetic Irm (A) min. and max. threshold 2 poles loaded	fixed threshold rating Irm D25 200 D40 280 D63 440 D100 700 D160 1120	fixed threshold rating Irm D25 200 D40 280 D63 440 D100 700 D160 1120	adjustable rating Irm D200 1000 to 2000 D250 1250 to 2500
other trip units				
type G low magnetic release	thermal	same as D type	same as D type	same as D type
	magnetic Irm (A) max. and min threshold 2 poles loaded	fixed threshold rating Irm G63 160 G80 200 G100 250 G125 320 G160 400	fixed threshold rating Irm G63 160 G80 200 G100 250 G125 320 G160 400	adjustable rating Irm G200 500 to 1000 G250 500 to 1000
type SA selective release	thermal	same as D type	same as D type	same as D type
	magnetic Irm (A)	fixed threshold rating Irm SA63 2000 SA100 2000 SA160 2000	fixed threshold rating Irm SA63 2000 SA100 2000 SA160 2000	fixed threshold rating Irm SA125 1000 SA160 1280 SA200 1600 SA250 2000
type SB Sellim selective release (full discrimination with all downstream breaker)	instantaneous protect. I (A)	2000	2000	3000
	thermal magnetic Irm (A)		same as D type ⁽²⁾ fixed threshold rating Irm SB100 1000 SB125 1250 SB160 1600	
type MA magnetic release only	thermal	without	without	without
	magnetic I max (A) maximum continuous current at 65°C Irm (A) max. and min. threshold 2 poles loaded	fixed threshold rating I max Irm MA160 160 2000	fixed threshold rating I max Irm MA160 160 2000	adjustable rating I max Irm MA250 250 1600 to 3200



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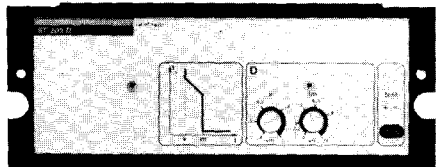
Tripping curves
Description

C250L	C401N ① C401H	C401L ①	C630N C630H	C630L
■	■	■	■	■
adj. 0.7 to 1 × I _r ⁽¹⁾	adj. 0.75 to 1 × I _r ⁽¹⁾	adj. 0.75 to 1 × I _r ⁽¹⁾	adj. 0.75 to 1 × I _r ^{(1) (3)}	adj. 0.75 to 1 × I _r ^{(1) (3)}
rating I _r at : N/2 40°C 50°C 60°C (A) D200 200 190 180 100 D250 235 223 211 125	rating I _r at : N/2 40°C 50°C 60°C (A) D321 320 305 290 160 D401 400 380 360 200 for direct current : P1 P2 without thermal P3	rating I _r at : N/2 40°C 50°C 60°C (A) D321 320 305 290 160 D401 350 325 300 200 for direct current : P1 P2 without thermal P3	rating I _r at : N/2 40°C 50°C 60°C (A) D500 500 475 450 250 D630 630 595 550 320 for direct current : P1 P2 without thermal P3 P4	rating I _r at : N/2 40°C 50°C 60°C (A) D500 500 475 450 250 D630 560 525 490 320 for direct current : P1 P2 without thermal P3 P4
adjustable	adjustable	adjustable	adjustable	adjustable
rating I _{rm} D200 1000 to 2000 D250 1250 to 2500	rating I _{rm} D321 1600 to 3200 D630 3200 to 6300 for direct current : P1 800 to 1600 P2 1200 to 2500 P3 2000 to 4000	rating I _{rm} D321 1600 to 3200 D630 3200 to 6300 for direct current : P1 800 to 1600 P2 1200 to 2500 P3 2000 to 4000	rating I _{rm} D500 2500 to 5000 D630 3200 to 6300 for direct current : P1 800 to 1600 P2 1200 to 2500 P3 2000 to 4000 P4 3200 to 6300	rating I _{rm} D500 2500 to 5000 D630 3200 to 6300 for direct current : P1 800 to 1600 P2 1200 to 2500 P3 2000 to 4000 P4 3200 to 6300
same as D type				
adjustable				
rating I _{rm} G200 500 to 1000 G250 500 to 1000	protection carried out by C400N/H/ ST equipped with ST204S trip unit (see page 30)	protection carried out by C400L ST equipped with ST204S trip unit (see page 30)	protection carried out by C630N/H ST equipped with ST204S trip unit (see page 30)	protection carried out by C630L ST equipped with ST204S trip unit (see page 30)
same as D type				
fixed threshold				
rating I _{rm} SA125 1000 SA160 1280 SA200 1600 SA250 2000	protection carried out by C400N/H ST equipped with ST204S trip unit (see page 30)	protection carried out by C400L ST equipped with ST204S trip unit (see page 30)	protection carried out by C630N/H ST equipped with ST204S trip unit (see page 30)	protection carried out by C630L ST equipped with ST204S trip unit (see page 30)
3000				
same as D type				
fixed threshold				
rating I _{rm} SB160 1600 SB200 2000 SB250 2500		protection carried out by C400L ST equipped with ST204SB trip unit (see page 30)		protection carried out by C630L ST equipped with ST204SB trip unit (see page 30)
without	without	without	without	without
adjustable	adjustable	adjustable	adjustable	adjustable
rating I max I _{rm} MA250 250 1600 to 3200	rating I max I _{rm} MA321 320 2000 to 4000	rating I max I _{rm} MA321 320 2000 to 4000	rating I max I _{rm} MA500 500 3200 to 6300	rating I max I _{rm} MA500 500 3200 to 6300

characteristics selection table: ST trip units

type of protection

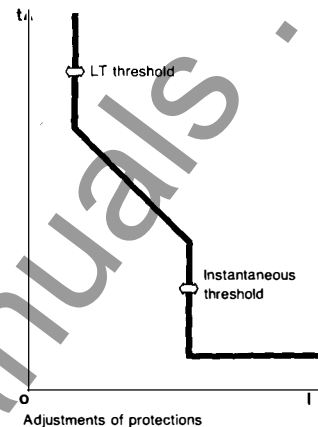
Instantaneous trip units ST204S/ST205D



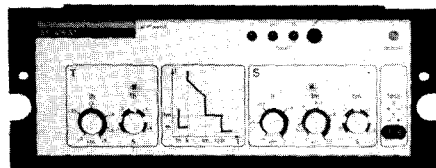
The ST204S and ST205D trip units, for general purpose, offer two levels of protection:

- adjustable long time delay for protection against overload;
- instantaneous for protection against short circuit.

The ST204S is also a selective trip unit with a fixed time delay.
The threshold are given either for 1, 2 or 3 poles loaded.



Selective trip units ST204SB/ST305S/SL/SB/G



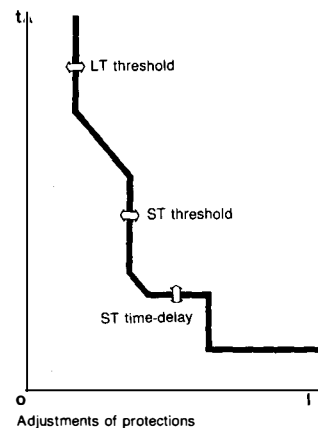
Model shown with T option (ground fault protection) and F option (fault indicator).

The ST204SB and ST305S/SL/SB/G trip units offer the following protections:

- adjustable long time delay for protection against overload;
- short time for protection against short circuit;
- instantaneous for protection against short circuit;
- ground fault protection.

The threshold are given either for 1, 2, or 3 poles loaded.
These different types of trip unit meet each requirement for:

- selective application ST305S and ST305SL;
- full continuity of service with **Sellim system**, ST305SB and ST204SB.
- generator protection ST305G.

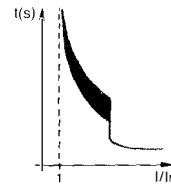


selection table

Compact	In(A)	ST204S	ST204SB	ST205D	ST305S	ST305G	ST305SL	ST305SB
C400N/H ST	400	■						
C630N/H ST	630	■						
C400L ST	400	■	■					
C630L ST	630	■	■					
C800N/H ST	800			■	■	■		
C1000N/H ST	1000			■	■	■		
C1250N/H ST	1250			■	■	■		
C800L ST	800						■	■
C1000L ST	1000						■	■

characteristics

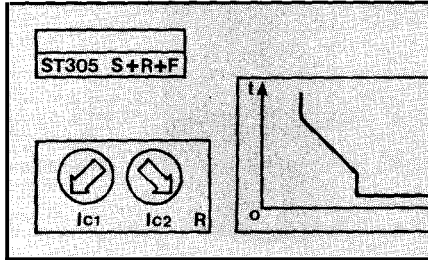
type	ST204S	ST204SB	ST205D	ST305S	ST305G	ST305SL	ST305SB
long time delay protection I _r (A) = I _n × ... continuous current setting	0.4 to 1	0.4 to 1	0.4 to 1	0.4 to 1	0.4 to 1	0.4 to 1	0.4 to 1
tripping between	1.05 to 1.20	1.05 to 1.20	1.05 to 1.20	1.05 to 1.20	1.05 to 1.20	1.05 to 1.20	1.05 to 1.20
short time delay protection I _m (A) = I _r × ... short time pick-up precision ± 15 %	2.5 to 10	2.5 to 10		2 to 10	1.6 to 4	2 to 10	2 to 10
time delay by steps of 0.1 s				0 to 0.3	0 to 0.3	0 to 0.3	0 to 0.3
instantaneous protection	15 × I _n	8 × I _n	2 to 10 I _r	12 × I _n	12 × I _n	8 × I _n	8 × I _n



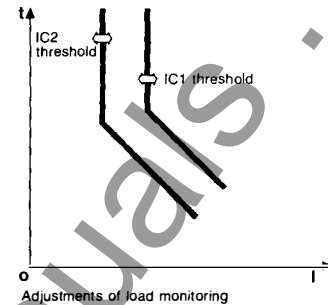
Tripping curves
Description

optional functions (for selective trip unit only)

Load monitoring (R option)

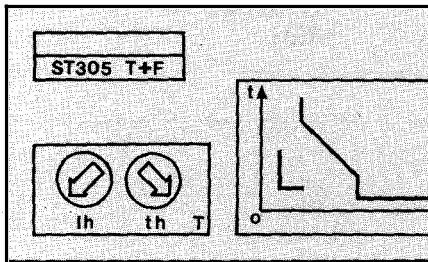


Two adjustable load limits depending on the long time delay adjustment activate opto-decoupled output (transistors). These two thresholds can be used in applications such as load shedding and reconnection interlocks indication, alarms...

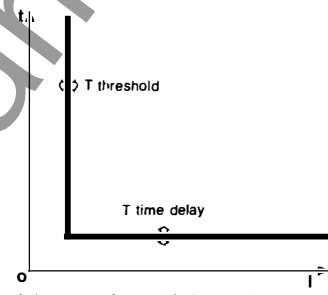


Adjustments of load monitoring

Ground fault protection (T option)

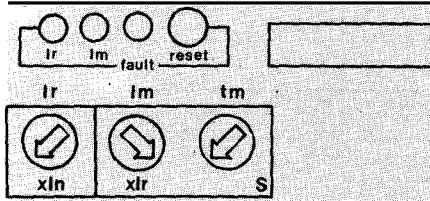


The ground fault protection is a "residual" type. It can be completed with a zone selective interlock (type Z). On request, the ground fault protection can be a "source ground return" (type W). In this case, the selective zone interlock is always supplied. The threshold are given either for 1, 2 or 3 poles loaded.



Adjustments of ground fault protection

Fault indicator (F option)

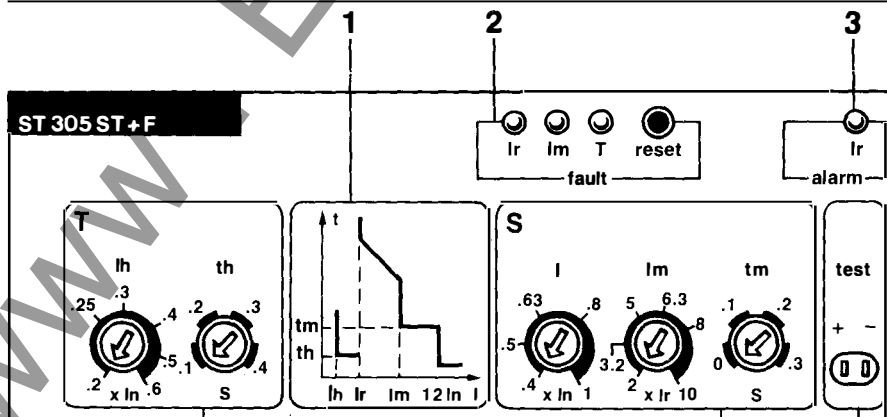


In addition of the standard fault indication (toggle, SD and SDE auxiliaries contacts), the fault indicator enables to discriminate the three causes of tripping: overload (LD), short circuit (CR+inst) or ground fault (T). A push button is provided to reset these indicators.

characteristics

type	ST204S	ST204SB	ST205D	ST305S	ST305G	ST305SL	ST305SB
ground fault protection Ih = In x ... pick-up				0.2 to 0.6	0.2 to 0.6	0.2 to 0.6	0.2 to 0.6
or time delay (s)				0.1 to 0.4	0.1 to 0.4	0.1 to 0.4	0.1 to 0.4
load monitoring Ic1 In x ... Ic2 In x ... precision ± 5 %				0.8 to 1 0.8 to 1	0.8 to 1 0.8 to 1	0.8 to 1 0.8 to 1	0.8 to 1 0.8 to 1
mini test kit	■	■	■	■	■	■	■
fault indicator	■	■	■	■	■	■	■

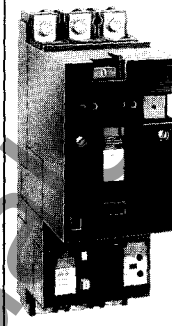
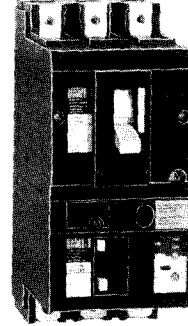
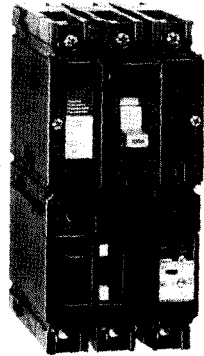
front label



- 1 Typical curve
- 2 Fault indicators(1) built-in light emitting diode annunciators discriminate the 3 causes of tripping: overloads (Ir), short circuit (Im) or ground fault (T)
- 3 Alarm indicator(1) before tripping, a built-in light emitting diode annunciator indicates that the long time pick-up has been exceeded. The advantage of this feature is the accurate adjustment of the long time setting on site with the actual load.
- 4 Built-in ground fault protection
 - Adjustable pick-up and delay for selectivity,
 - Suitable with an external current sensor.
- 5 Built-in overcurrent protection
 - Adjustable current setting and delay

characteristics selection table : Vigicompact ELCB

 new



Vigicompact

**C101N/H/L
REH or RMM** 

**C161N/H/L
REH or RMM**

**TC160N/L
REH**

electrical characteristics

rated current (A) at 40°C	C101N/H/L	C161N/H	C161L	TC160N	TC160L
fixed	100	160	150	160	150
plug-in	100	160	150	160	150
rated voltage AC (V) 50/60 Hz + 10% - 15% ⁽⁵⁾	220 to 415 (500 for RMM)	220 to 415 (500 for RMM)		220 to 415	
number of poles	3, 4	3, 4		3, 4	
breaking capacity AC	same as C101N/H/L	same as C161N/H/L		same as TC160N/L	
trip unit					
accessories and auxiliaries					

Vigi module

type of Vigi module	REH101		RMM101	REH161		RMM161	REH160	
sensitivity ⁽¹⁾	HS	MS	MS	HS	MS and LS	MS	HS	MS and LS
I Δ n (A) ⁽²⁾	0.03	0.3-1-3-10	0.3	0.03	0.3-1-3-10	0.3	0.03	0.3-1-3-10
intentional delay	step		without	step		without	step	
delay (ms)	0	0 I II	0	0	0 I II	0	0	0 I II
trip. time (ms) ⁽³⁾	0	0 60 200	0	0	0 60 200	0	0	0 60 200
class	50	50 170 390	50	50	50 170 390	50	50	50 170 390
auxiliary supply AC 50/60 Hz ⁽⁵⁾	TO2	T2 on step 0	T2	TO2	T2 on step 0	T2	TO2	T2 on step 0
built-in (self voltage)	without (self current)		without (self current)	built-in (self voltage)		without (self current)	built-in (self voltage)	
installation	versions		FC	RC		FC	RC	
fixed	■		■	■		■	■ ⁽⁴⁾	
plug-in	■ ⁽⁴⁾		■	■ ⁽⁴⁾		■	■ ⁽⁴⁾	
dimensions (mm)	fixed FC		H	W	D	H	W	D
type N/H 3P	218	105 124	232	105	139	290	105	185
4P	218	140 124	232	140	139	290	140	185
weight (kg)	type N/H 3P		2.3	2.3		5.2	7.3	
4P	3.1		3.1	3.1		7.3	7.3	

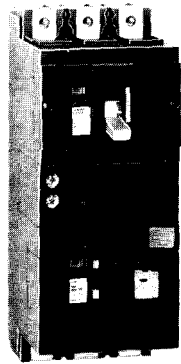
Vigirex RCD

type of Vigirex	RH50⁽⁶⁾	RH53A	RH50⁽⁶⁾	RH53A	RH50⁽⁶⁾	RH53A
I Δ n (A)	0.03-0.1-0.3-1-3	0.03-0.1-0.3-1-3	0.03-0.1-0.3-1-3	0.03-0.1-0.3-1-3	0.03-0.1-0.3-1-3	0.03-0.1-0.3-1-3
intentional delay	step		step		step	
delay (ms)	0	0 I II	0	0 I II	0	0 I II
class	0	0 90 250	0	0 90 250	0	0 90 250
auxiliary supply AC 50/60 Hz	220/240	220/240 or 380/415	220/40	220/240 or 380/415	220/240	220/240 or 380/415
installation on circuit-breaker MX or MN	■		■		■	
separated toroid (\varnothing in mm)	TN \varnothing 30 plug-in	■	TN \varnothing 30 plug-in	■	TN \varnothing 30 plug-in	■
	PN \varnothing 50	■	PN \varnothing 50	■	PN \varnothing 50	■
	TF \varnothing 30	■	TF \varnothing 30	■	TF \varnothing 30	■
	IN \varnothing 80	■	IN \varnothing 80	■	IN \varnothing 80	■
	MN \varnothing 120	■	MN \varnothing 120	■	MN \varnothing 120	■
	SN \varnothing 200	■	SN \varnothing 200	■	SN \varnothing 200	■
shielded wire l = 100 m	■		■		■	

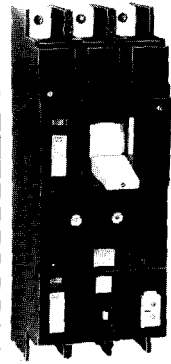
Protection against transient fault currents :
The Vigi modules are equipped with a
filtering device preventing the inadvertent

They comply with international standards
(withstand test to 8/20 μ s wave and
impulse voltage 1.2/50 μ s, classe A...).

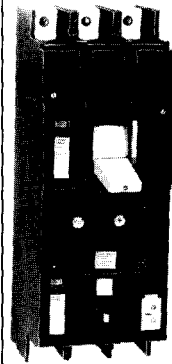
The earth-leakage protection with Vigirex
RCD is achieved by the combination of :
■ a circuit-breaker equipped with a shunt
trip as an under-voltage release



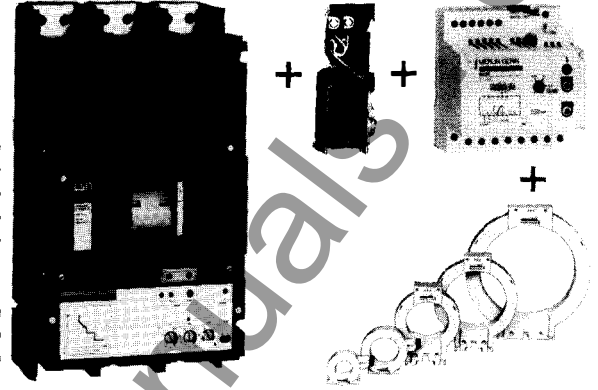
**C250N/H/L
REH**



**C401N/H/L
C400N/H/L ST
REM**



**C630N/H/L
C630N/H/L ST
REM**



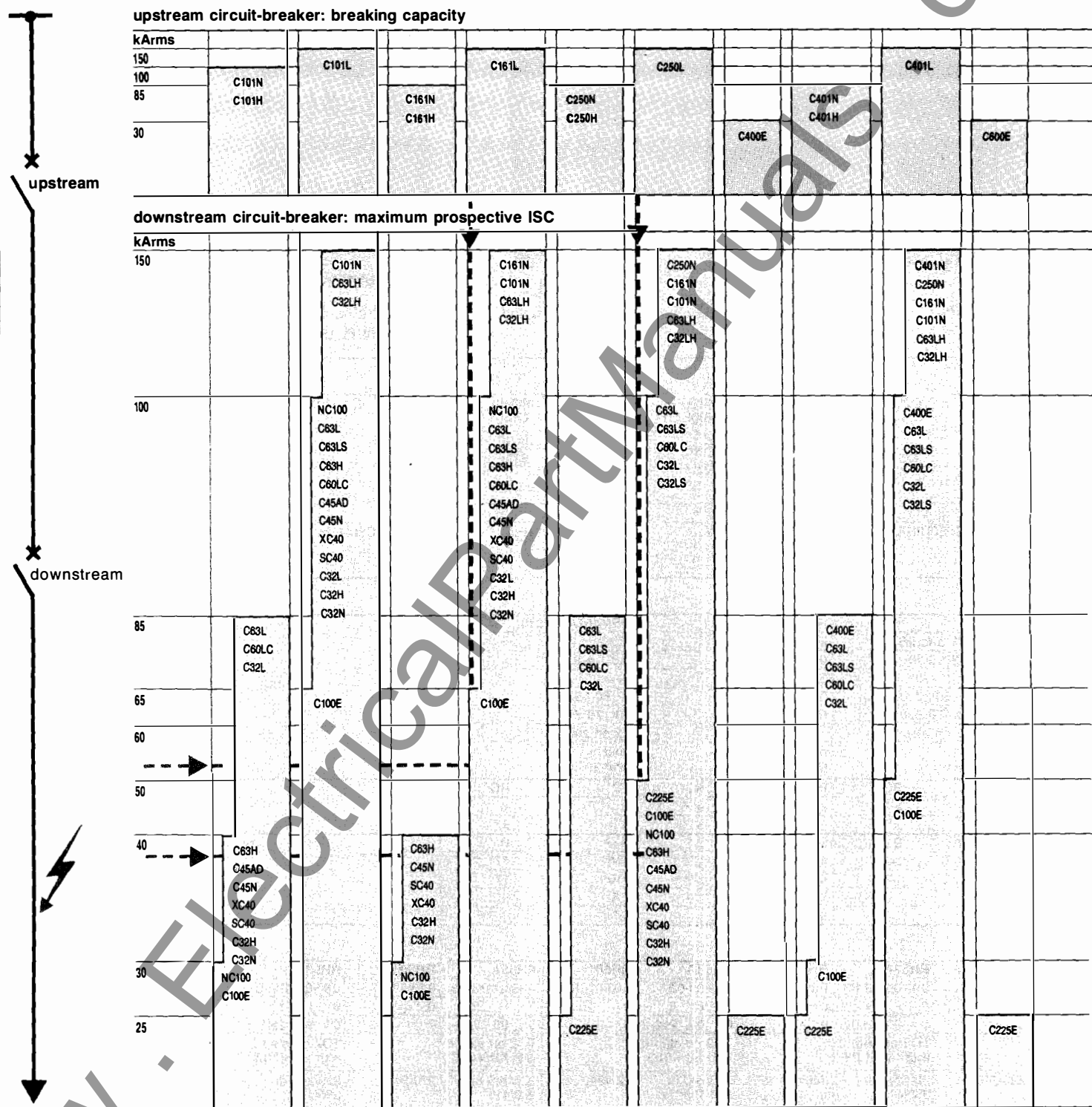
**C800N/H/L ST, C1000N/H/L ST,
C1250N/H ST**

C250N/H		C250L	C401N/H		C401L	C630N/H		C630L
C400N/H ST			C630N/H ST		C630L	C630L ST		
250	235		400	350	630	550		
250	235		360	30	550	520		
220 to 415			220 to 415		220 to 415			
3, 4			3, 4		3, 4			
same as C250N/H/L			same as C401N/H/L or C400N/H/L ST		same as C630N/H/L or C630N/H/L ST			same as C800N/H/L ST, C1000N/H/L ST or C1250N/H ST
REM250			REM401/400/630			REM401/400/630		
HS	MS and LS		MS and LS			MS and LS		
0.03	0.3-1-3-10		0.3-1-3-10-30			0.3-1-3-10-30		
0	0	I II	0	I II	0	I II	0	I II
0	0	60 200	0	60 200	0	60 200	0	60 200
50	50	170 390	50	170 390	50	170 390	50	170 390
TO2	T2 on step 0		T2 on step 0			T2 on step 0		
built-in (self voltage)			built-in (self voltage)			built-in (self voltage)		
FC	RC		FC	RC		FC	RC	
■	■ (4)		■	■		■	■	
■	■		■	■		■	■	
H	W	D	H	W	D	H	W	D
350	140	145	410	157.5	171	410	157.5	171
350	185	145	410	210	171	410	210	171
5.2			7.8			7.8		
6.2			9.7			9.7		
RH50⁽⁶⁾	RH53A		RH50⁽⁶⁾	RH53A		RH50⁽⁶⁾	RH53A	
0.03-0.1-0.3-1-3	0.03-0.1-0.3-1-3		0.03-0.1-0.3-1-3	0.03-0.1-0.3-1-3		0.03-0.1-0.3-1-3	0.03-0.1-0.3-1-3	
0	0	I II	0	0	I II	0	0	I II
0	0	90 250	0	0	90 250	0	0	90 250
	TO2 on step 0 with IΔn=0.03			TO2 on step 0 with IΔn=0.03			TO2 on step 0 with IΔn=0.03	
220/240	220/240 or 380/415		220/40	220/240 or 380/415		220/240	220/240 or 380/415	
■	■		■	■		■	■	
■	■		■	■		■	■	
■	■		■	■		■	■	
■	■		■	■		■	■	
■	■		■	■		■	■	

(1) HS : high sensitivity
MS : medium sensitivity
LS : low sensitivity
(2) Tripping at IΔn, see tripping at IΔn

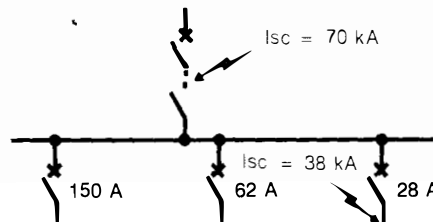
characteristics cascading

220/240 V network
upstream:
downstream:
Multi 9 and Compact



Example: 220/240V network

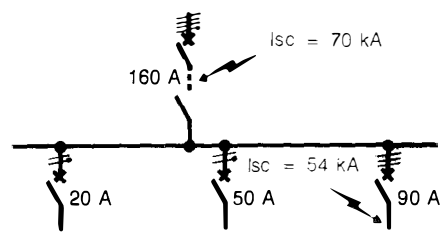
Note: For clarity, the C400N, H or L ST and the C630N, H or L ST have been omitted from the above bar graphs since their cascading characteristics are identical to these of the C401N, H or L and the 630N, H or L respectively.



By installing a C250L circuit-breaker (breaking capacity 150 kA) at the upstream end of the installation, and with an I_{sc} of 38 kA on the busbars, it is possible to install a C32N circuit-breaker (breaking capacity 16 or 12 kA depending on the curve) on the 28 A outgoing line, a NC100 circuit-breaker (breaking capacity 15 or 12 kA depending on the curve) on the 62 A outgoing line and a C161N circuit-breaker (breaking capacity 85 kA) on the 150 A outgoing line (the latter does not have to be a compact type).

kArms												
150		C630L			C600L			C1000L				CM
100				C800H								Masterpac
85	C630N C630H		C800N				C1000N	C1000H		C1250N	C1250H	
30												
<hr/>												
kArms												
150		C630N C401N C250N C161N C101N			C800N C630N C401N C250N C161N C125N			C1000N C800N C630N C401N C250N C161N C125N		C1000N C800N C630N C401N C250N C161N C101N		
100		C600E C400E		C600N C630N C401N C250N C161N C125N	C600E C400E		C1000N C800N C630N C401N C250N C161N C125N	C600E C400E		C1250N C1000N C800N C630N C401N C250N C161N C101N	C1250N C1000N C800N C630H C401H	
85	C600E C400E		C600E C400E	C600E C400E			C600E C400E	C600E C400E		C600E C400E	C600E C400E	
65												
60						C100E				C100E		
50		C225E C100E										
40												
30	C100E						C225E C100E	C225E C100E		C225E C100E	C225E C100E	
25	C225E		C225E C100E	C225E C100E								

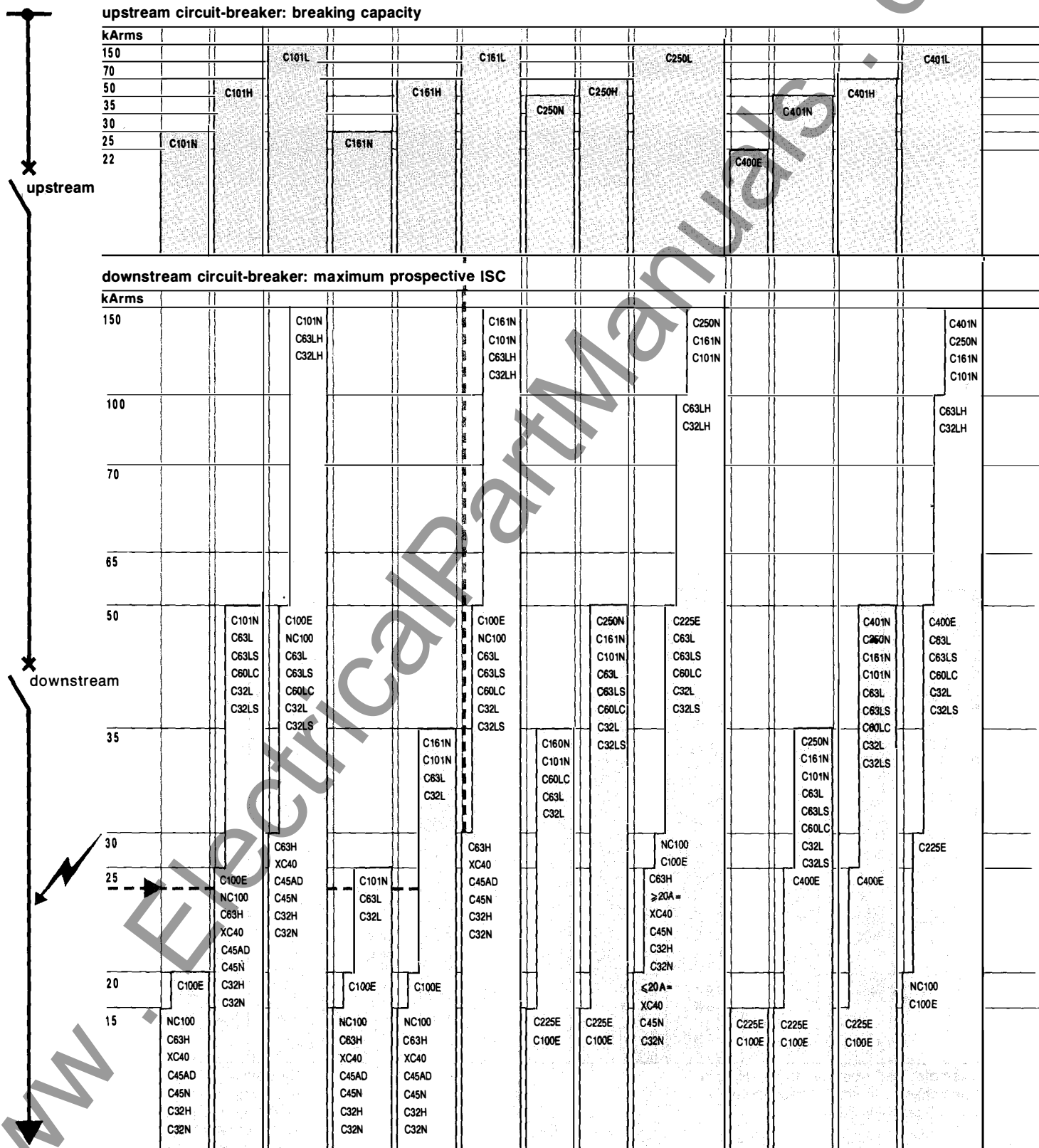
Example: 380 V network (3P + N) with three-phase and single-phase (phase + neutral) outgoing lines.



By installing a 4-pole C161L circuit-breaker (breaking capacity 150 kA) at the upstream end of the installation, and with an Isc of 54 kA on the busbars, it is possible (see pages 36 and 37) to install a 3-pole C100E circuit-breaker on the 90 A outgoing line (see above table for single-phase outgoing lines), a 2-pole C63H circuit-breaker (breaking capacity 12 kA) on the 50 A outgoing line and a C32N circuit-breaker (breaking capacity 16 or 12 kA depending on the curve) on the 20 A

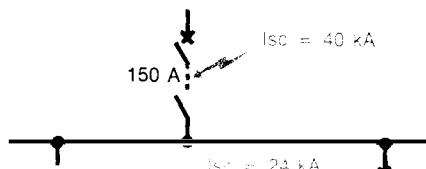
characteristics cascading (continued)

380/415 V network⁽¹⁾
upstream:
Compact
downstream:
Multi 9 and Compact



Example: 380 V network

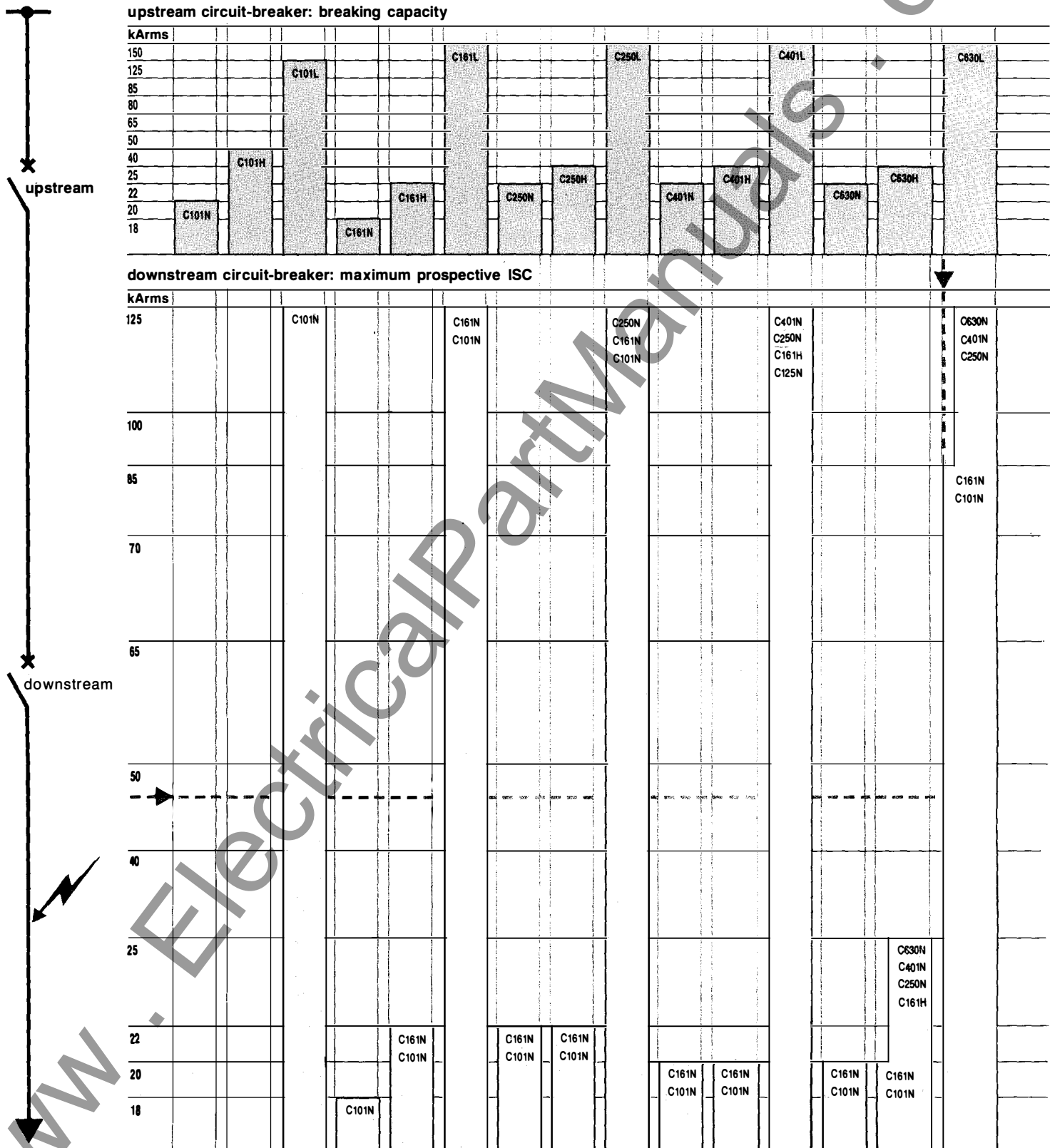
Note: For clarity, the C400N, H or L ST and the C630N, H or L ST have been omitted from the above bar graphs since their cascading characteristics are identical to these of the C401N, H or L



By installing a C161L circuit-breaker (breaking capacity 150 kA) at the upstream end of the installation, and with an I_{sc} of 24 kA on the busbars, it is possible to install a C32N circuit-breaker (breaking capacity 8 kA) on the 30 A outgoing line,

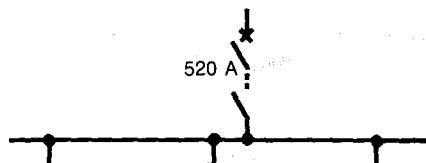
characteristics cascading (continued)

440 V network⁽¹⁾
upstream: Compact/
Compact CM/Masterpact
downstream: Compact/
Compact CM/Masterpact



Example: 440 V network

Note: For clarity, the C400N, H or L ST and the C630N, H or L ST have been omitted from the above bar graphs since their cascading characteristics are identical to these of the C401N, H or L

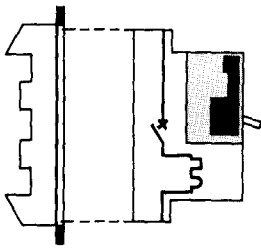


By installing a C630L circuit-breaker (breaking capacity 150 kA) at the upstream end of the installation, and with an Isc of 48 kA on the busbars, it is possible to install a C101N circuit-breaker (breaking capacity 20 kA) on the 100 A outgoing line and the C250N circuit-breaker (breaking capacity 25 kA) on the

kArms												
150				C800L								
125												
85											Masterp. L (1)	
80									CM H			
65										Masterp. H1 (1)	Masterp. (H2) (1)	
50												
40	C800N			C800H								
25												
22												
20												
18												
kArms												
125				C800N C630N C401N								
100											MP H2 (≤2000) CM	
85				C250N							MP H1 (>1600) C1250N C1000N C800N	
70									CM C1250N C1000N C800N		C1250N C1000N C800N	
65										C630H C400H	C1250N C1000N C800N	
50				C800N	C161H C161N C101H C101N		C1000N C800N	C161N C101N		C1250N C1000N C800N	C1250N C1000N C800N	
40		C630N C401N C250H		C630N C401N C250H		C630N C401N C250H				C630N C401N C250H		C630N C401N C250H
25		C250N C161H		C250N C161H		C250N C161H		C250N C161H		C250N C161H		C250N C161H
22												
20		C161N C101N		C161N C101N		C161N C101N		C161N C101N		C161N C101N		C161N C101N
18												



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A range of auxiliary contacts shunt trips and undervoltage releases equips all the Compact circuit breakers and their derived products. These auxiliaries are fitted inside the circuit breaker without any difficulty. Regarding particularly the Compact C100E to C600E and C101 to C125N/H/L, these auxiliaries are fixed by a **simple ratcheting** without any risk of contact with the live parts.

Tropicalization
All the auxiliaries are tropicalized all climates and comply with treatment 2 of the standard NF C 63-100.

auxiliaries contacts

OF contact
opening and closing



SD contact
for fault indication



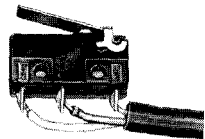
OF contact double-throw switch used for a signal or a control linked with the "OFF" or "ON" position of the circuit breaker (signalling, electrical locking, relaying, etc.).
Double-throw switch used for indication when the breaker opens on any fault. The SD contact operates on:
■ **overcurrent or insulation fault** (Vigi module) trip,
■ **opening by action of the voltage release** (MX or MN).

This contact reverts to its rest position when the circuit breaker is reset.

Characteristics for Compact

		C125 to C125N/H/L TC160N/L	C101
rated current		2 A	2 A
breaking capacity	AC 220 V	5 A	1.5 A
	380 V	1.4 A	0.5 A
DC	24 V	2.8 A	2 A
	48 V	1 A	1.5 A
	110 V	0.3 A	0.7 A
	220 V	0.1 A	

SDE contact
for electrical fault indication



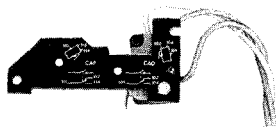
Normally close contact, used for an indication when the breaker opens on an electrical fault. The SDE contact only operates for an **overcurrent or insulation fault** (Vigi module) trip. It reverts to its rest position when the circuit breaker is reset. Generally associated with T and TS type remote control units, it enables remote

resetting to be performed after opening by action of the voltage release (MX or MN).

Characteristics for Compact

		C250 to C1250N/H/L
rated current		2 A
breaking capacity	AC 220 V	5 A
	380 V	1.4 A
DC	24 V	2 A
	220 V	0.15 A

CAM contact
with early break



Double-throw switch used for a function linked with the "open" or "closed" position of the **rotary operating handle** or of the **Visu module** of the Compact C101 to C1250N/H/L. Depending on the way it is fitted, the CAM contact operates with early make or early break.

Characteristics for Compact

		C101 to C1250N/H/L
rated current		2 A
breaking capacity	AC 220 V	5 A
	380 V	1.4 A
DC	24 V	2.8 A
	48 V	1 A
	110 V	0.3 A
	220 V	0.1 A

voltage releases

MX shunt trip release
MN undervoltage release



C101



C161 to C1250

The voltage releases are used for remote tripping of the circuit breaker:

- with **MX release**, by **shunt trip** in the control circuit (push-button, relay, etc.);
- with **MN release**, when the control circuit supply **voltage is absent** or drops below a **minimum threshold** (voltage failure, remote opening by push-button, relay, etc).

Tripping by action of MX or MN release always requires resetting of the circuit breaker.

The MX release is equipped with a self-breaking contact which cuts its control circuit as soon as the circuit breaker is trip. For a supply voltage U_n , this release operates for a voltage from 70% to 110% of U_n .

Operation of the MN release complies with the requirements of the standard IEC 157-1.

For a supply voltage U_n :

- **opening** of the circuit breaker takes place for a voltage lower than or equal to

- **closing** of the circuit breaker becomes possible for a voltage equal to or greater than 85% of U_n . For a voltage lower than or equal to 35% of U_n , closing is prevented.

Characteristics for Compact

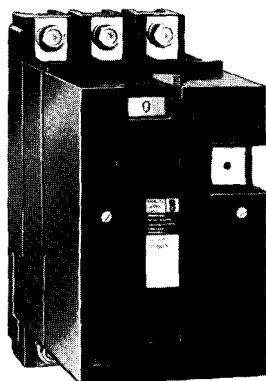
		C101	C161 to C1250	
power supply = U_n	AC 50 Hz	see part number page		
	AC 60 Hz			
	DC			
MX pick-up consumption	AC (VA)	10	150	
	DC (W)	6	10	
opening time (ms)		≤ 50	≤ 50	
MN	seal-in	AC (VA)	10	8
	consumption	DC (W)	6	5
	opening time (ms)	instant. MN	≤ 50	≤ 50
		time delayed MN	250/700	250/700

characteristics remote control

Compact TC160N/L with built-in remote control, adaptable motor mechanism

Dimensions page 113
Part numbers page 57
Wiring diagrams page 46

Compact TC160N/L with built-in remote control



description

The Compact TC160N/L with built-in remote control is a circuit breaker. The toggle is replaced by a solenoid ON/OFF operator.

The Compact TC160N/L consists of :

- a circuit breaking component part and a C160 trip unit ;
- an interchangeable MT remote control unit comprising 2 fast acting coils (closing and opening).

This unit is fitted with a connection terminal strip for connecting the remote control wiring.

- a local manual control.

This manual control is in addition used for local circuit breaker resetting after tripping on a fault, and performs positive break indication.

- a padlocking device in the « open » position (padlock hasp \varnothing 6 to 8 mm).

Auxiliaries

The Compact TC160N/L can be fitted with the following auxiliaries :

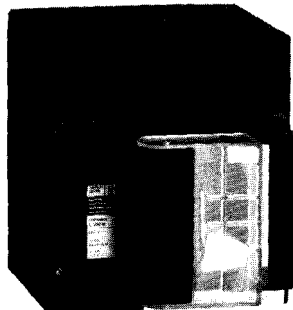
- auxiliary contacts (1 block of 2 OF identical to that of the C161N, or 1 block of 1 OF+SD special to the TC160) ;
- a Vigi REH160 or REB160 earth leakage unit ;
- a load shedding-restoring device, fitted in a separate housing from the Compact TC160N/L.

If a voltage failure occurs, this device causes delayed tripping of the circuit breaker which can then be remotely reclosed.

- operating voltage : 220 V AC \pm 15%,
- temperature : -5 to +60°C,
- time delay (220 V, 40°C) : 500 ms \pm 150 ms.

The Compact TC160N/L cannot be fitted with standard MX or MN voltage trip releases.

T and TS type adaptable motor mechanism



description

For the Compact C250 to C1250N/H/L the T and TS type motor mechanism :

- are equipped with a padlockable toggle, (padlock hasp \varnothing 6 to 9 mm).

The toggle, which indicates the 3 circuit breaker positions, enables manual resetting. This control can, on option, be locked by 1 Ronis 1351.500 or Profalux KS5 B24 D4Z keylock (except on the source changeovers).

- can be associated with an SDE contact to perform remote resetting, after opening by MX or MN voltage release. If tripping due to an overcurrent or insulation fault (with Vigi module) occurs, manual resetting is compulsory in all cases on the circuit breaker (no remote resetting).

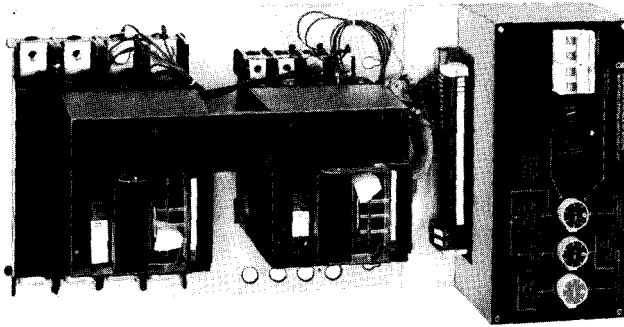
Auxiliaries

The Compact circuit breakers equipped with a motor mechanism can be fitted with the same auxiliaries as the manual controlled circuit breaker (see maximum possibilities page 46).

characteristics

Compact type		TC160N/L	C250N/H/L to C630N/H/L		C800N/H/L to C1250N/H/L		
remote control type		MT	T	TS	T	TS	
power supply	AC 50/60 Hz (V)	48, 110/127, 220/240, 380/415	110/127, 220/240, 380/415, 440/480	110/127, 220/240	110/127, 220/240, 380/415, 440/480	110/127, 220/240	
	DC	48/60, 110/130	24, 48/60, 110/130, 220/250	110/125	24, 48/60, 110/130, 220/250	110/125	
consumption	opening	AC (V) VA	48 to 415 \leq 150	110 to 240 380 to 480 500 700	110 to 240 500	110 to 240 380 to 480 750 1000	110 to 240
		DC (V) W	48 to 130 \leq 150	24 to 250 500	110/125 500	24 to 250	110/125
	closing	AC (V) VA	48 to 415 \leq 650	110 to 240 380 to 480 500 700	110 to 240 500	110 to 240 380 to 480 750 1000	110 to 240
		DC (V) W	48 to 130 \leq 500	24 to 250 500	110/125 500	24 to 250 500	110/125
operating time	opening (ms)	30	500	500	400	150	
	closing (ms)	150	200	60	400	50	
endurance (IEC CO cycle)	mechanical	30000	10000	10000	10000	2000	
	electrical/380 V	30000 for I \leq 40 A 25000 for I = 63 A 16000 for I = 100 A 12000 for I = 160 A					
maximum operating frequency (cycles/mn)		2	2	2	2	2	
operating limits		0.85 to 1.10 Un at 40°C					
ambient temp. (°C)		-5 to +60°C					
other characteristics		identical to those of the Compact without motor mechanism					

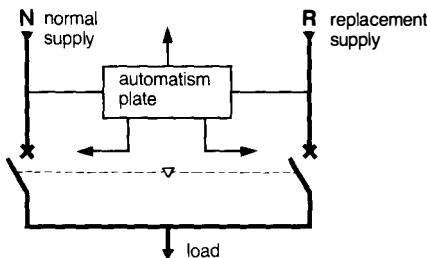
characteristics automatic source changeover



C250 to C1250N/H/L

use

The automatic source changeover achieves **automatically** the switching of a circuit supply from a **Normal supply N** to a **Replacement supply R** and vice versa.



The automatic source changeover is particularly well adapted to industrial or tertiary installations including :

- either a **permanent standby supply** (the mains supply, a generator set with built-in in start-up relay),
- or and **emergency set** in "off" position carrying out starting and stopping orders given by the automatic source changeover (except for TC160N/L changeover).

variations

The Compact breakers which equip the automatic source changeover can receive the same auxiliaries as basic Compact. It is possible to achieve the following functions :

- **switch** by substitution of the trip unit by NI switch module, or by the switch accessories ;
- **protection of persons** by adding a Vigi module ;
- **visible break** by adding a Visu module on the left side breaker (Normal N) ;
- **special protections** such as selective protection, protection with low magnetic threshold, etc., achieved by another trip unit adapted to the protection searched for.

The following table gives the possible variations for each type of automatic source changeover.

These additions can be combined or concern only one of the two breakers.

accessories

In addition to the necessary accessories for automatic operations, the breakers which equip the C250 to C1250 automatic source changeover can receive the usual Compact accessories.

Note

For C250 to C1250N/H/L source changeover, the possible adding of auxiliary contacts must always take into account that one OF switch is systematically used to operate the changeover.

installation

The automatic source changeover is delivered fitted, wired, set and ready to be connected.

The automatism plate normally fitted to the base plate is removable and can be separated for a possible remoteness (the cable of auxiliary connections is one meter long).

The auxiliaries supply comes from the networks to be checked.

The automatic source changeover can be mounted :

- either horizontally,
- vertically,
- on horizontal or vertical rails.

Indications for fitting and operating as well as the diagram appear on the leaflet supplied with the breaker.

operating

The automatism plate including contactors has the following functions :

- to switch the circuits supply from Normal to Replacement supply in case of failure of voltage N ;
- to switch back this supply when voltage N returns ;
- to select the operating mode by means of a 4 positions preselection switch (except for TC160 source changeover) :
 - automatic,
 - stop (breakers on "OFF" position),
 - controlled operating on Normal supply,
 - controlled operating on Replacement supply.

According to the type of changeover selected the automatism can be equipped with time delay, or starting/stop orders sending or load shedding/restoring devices.

Note

For the changeover with 3 TC160N/L, delivered without automatism, the electrical and mechanical interlocks allow local or remote control closing of only one breaker. The table of the opposite page gives the characteristics and possibilities of each type of Compact automatic source changeover.

**characteristics
operation**

Dimensions
Parts numbers
Wiring diagrams

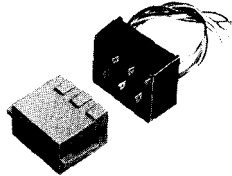
page 113
page 57
page 45

type		Compact TC160N/L	Compact C250 to C630N/H/L	Compact C800 to C1250N/H/L
composition	standard	2 TC160N/L	2 C250 or 2 C400 or 2 C630N/H/L	2 C800 or 2 C1000 or 2 C1250N/H/L
	other possibilities	3 TC160N/L	C400 or C401 + C250 C630 + C250, C400 or C401	C1000 + C800 C1250 + C800, C1000
versions		FC	FC	FC
		RC	RC	RC
variations	fixed	■	■	■
	plug-in	■	■	■
switch	NI block	■	■	■
personal protection	Vigi module REH	■	■	■
	Vigi module REM		■ C400 to C630	
	Vigirex + CT		■ ⁽¹⁾	■ ⁽¹⁾
visible break	Visu module	■ ⁽²⁾	■ ⁽²⁾	■ ⁽²⁾
auxiliaries				
automatism plate	removable	■	■	■
selector switch				
auxiliary contacts		2 OF or OF + SD	C250 ⁽⁵⁾ : 2 OF or OF + SD C400/C401/C630 ⁽⁵⁾ : OF + SD or 3 OF + SD	C800/C1000/C1250 ⁽⁵⁾ OF + SD or 3 OF + SD
characteristics				
rated voltage Un (V)	AC 50-60 Hz	415	415	415
operating voltage⁽³⁾ (V)	AC 50-60 Hz	220, 240, 380, 415	220, 240, 380, 415	220, 240, 380, 415
number of poles		3, 4	3, 4	3, 4
supply of the automatism and the motor mechanisms (V)	N or R voltage	■	■	■
	AC 50-60 Hz	220, 240, 380, 415	220, 240, 380, 415	220, 240, 380, 415
maximum consumption		AC	AC	AC
	opening	150 VA	700 VA	1000 VA
	closing	650 VA	700 VA	1000 VA
	permanently	15 VA	65 VA	65 VA
time of switching		0.2 s	0.9 s ⁽⁴⁾	1 s ⁽⁴⁾
number of reverse operations		10000	10000	10000
operating (see page 41)				
use with supply R	permanent	■	■	■
	non permanent		■	■
reversing N→R				
detection of voltage failure N		instantaneous ⁽⁷⁾	time delayed by T1 0.1 to 30 s	time delayed by T1 0.1 to 30 s
starting of standby set⁽⁶⁾			after time delay T1	after time delay T1
load shedding order⁽⁶⁾			after time delay T1, when voltage on R	after time delay T1, when voltage on R
order or reversing		instantaneous	time delayed by T3 0.1 to 3 s after load shedding order	time delayed by T3 0.1 to 3 s after load shedding order
reversing R→N				
detection of return voltage N		time delayed by T2 10 to 180 s	time delayed by T2 10 to 180 s	time delayed by T2 10 to 180 s
order of reversing		after time delay T2	after time delay T2	after time delay T2
load restoration order⁽⁶⁾			after time delay T2	after time delay T2
cancelling of generator start up order⁽⁶⁾			instantaneous, when voltage returns on N	instantaneous, when voltage returns on N

(1) Add an undervoltage release, or a shunt trip
(2) On normal incoming only
(3) Operating limits : - 5 to 60°C, and 0.85 to 1.10 Un.
(4) Add starting time of generator set.

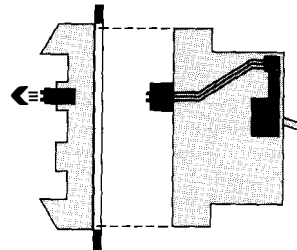
connection of auxiliary

Plug-in Compact



Auxiliary wire block
(fixed part and moving part)

Plug-in FC or RC Compact C101 to C1250N/H/L

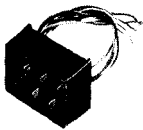


The auxiliary connections are output from the circuit breaker via 6-terminal or 3-terminal plug-in blocks depending on the auxiliary to be connected.

These blocks **have numbered** terminals and comprise:

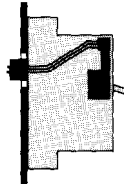
- a **moving part**, fixed onto the circuit breaker, and receiving the internal connections. These connections are identified by coloured wires;
- a **fixed part**, mounted on the plug-in base of the circuit breaker. This fixed part, which makes up the **terminal block**, directly receives the external connections (6.35 mm clips).

Fixed Compact



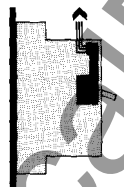
Auxiliary wire block for
fixed RC Compact

Fixed RC Compact C101 to C1250N/H/L



It is the moving part of the plug-in block, fixed onto the circuit breaker, which is used as the terminal block for direct connection of the external connections (6.35 mm clips).

Fixed FC Compact C101 to C1250N/H/L



The external connections are connected directly to the auxiliary via the front panel, through a hole made after removing the pre-cut part of the cover. Each terminal is marked with a number (see diagram).

auxiliary equipment possibilities

The table here under indicates :

■ the type and quantity of auxiliaries which can be fitted at the same time on each Compact,

■ the type and quantity of plug-in blocks to be provided (for plug-in Compacts).

The signe + indicates the auxiliaries which can be fitted together on the same unit.

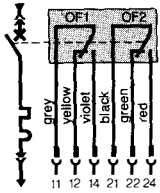
Peak possibilities

type of Compact	auxiliary contacts			auxil. wire block	+ voltage releases		auxil. wire block	+ motor mechanism		
	OF	SD	SDE		MX	MN		T	TS	auxil. wire block
C100E	1	+ 1		without (fixed breaker)	+	1	without (fixed breaker)			
C225E	2 or 1	+ 1		without (fixed breaker)	+	1 or 1	without (without breaker)			
C400E, C600E	1 or 3	+ 1		without (fixed breaker)	+	1 or 1	without (without breaker)			
C101N/H/L, C161N/H/L	2 or 1	+ 1		1 x 6 terminals	+	1 or 1	1 x 3 terminals			
TC160N/L	2 or 1	+ 1		1 x 6 terminals				+	built-in mot. mech.	1 x 6 terminals
C250N/H/L	2 or 1	+ 1 + 1	+ 1 ⁽¹⁾	1 x 6 terminals	+	1 or 1	1 x 3 terminals	+	1 or 1	1 x 6 terminals
C401N/H/L, C400N/H/L ST, C630N/H/L, C630N/H/L ST, C800N/H/L ST, C1000N/H/L ST, C1250N/H ST	1 or 3	+ 1 + 1	+ 1 ⁽¹⁾	1 x 6 terminals	+	1 or 1	1 x 3 terminals	+	1 or 1	1 x 6 terminals
				2 x 6 terminals						

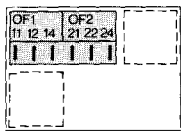
wiring diagrams

Compact C101 to C250N/H/L

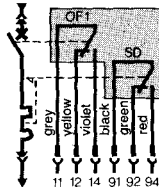
2 OF contacts



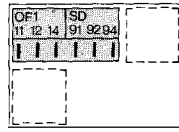
1 block of 6 terminals



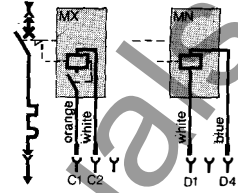
1 OF contact + 1 contact SD



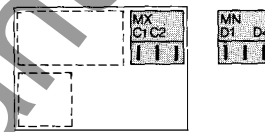
1 block of 6 terminals (back view)



1 MX or MN voltage release

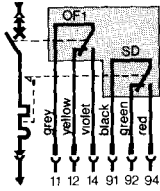


1 block of 3 terminals (back view)

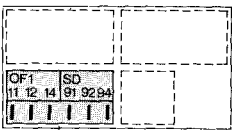


Compact C401 and C630N/H/L, C400 and C630N/H/L ST

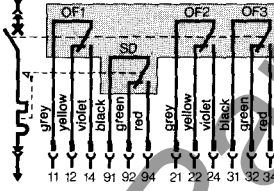
1 OF contact + 1 SD contact



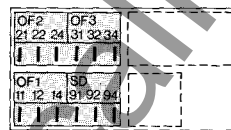
1 block of 6 terminals



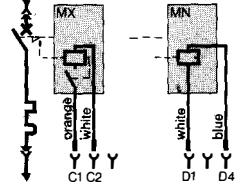
3 OF contacts + 1 contact SD



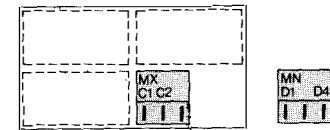
1 block of 6 terminals (back view)



1 MX or MN voltage release

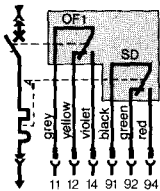


1 block of 3 terminals (back view)

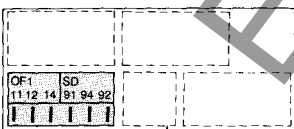


Compact C800 to C1250N/H/L ST

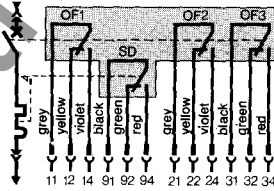
1 OF contact + SD contact



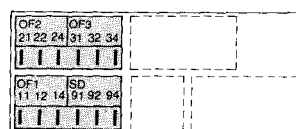
1 block of 6 terminals



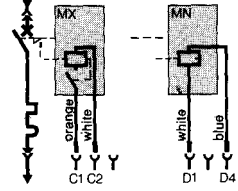
3 OF contacts + 1 SD contact



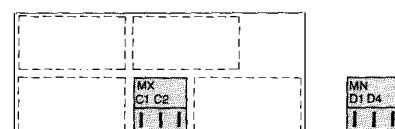
2 block of 6 terminals (back view)



1 MX or MN voltage release

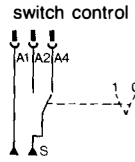
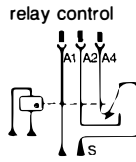
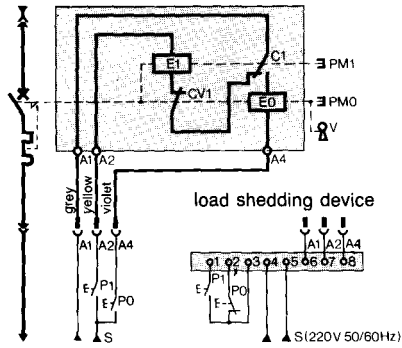


1 block of 3 terminals (back view)



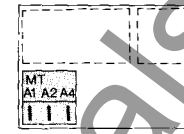
Compact TC160N/L

With built-in remote control unit



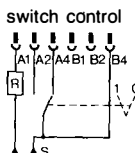
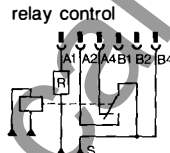
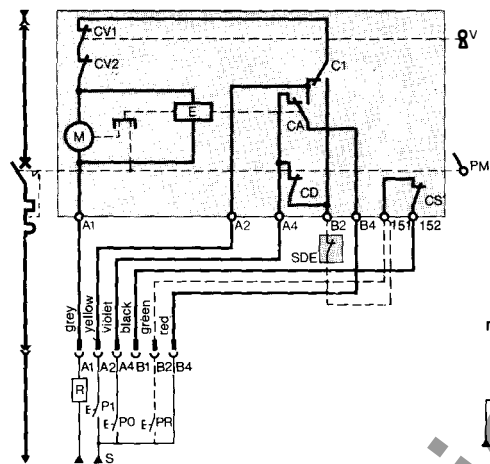
connection

C250N/H/L
1 bloc of 3 terminals (back view)



for Compact C250 to C630N/H/L

Adaptable motor mechanism type T

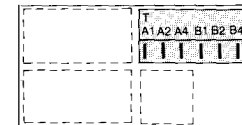


connection

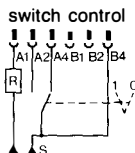
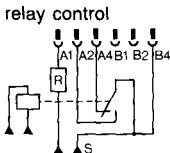
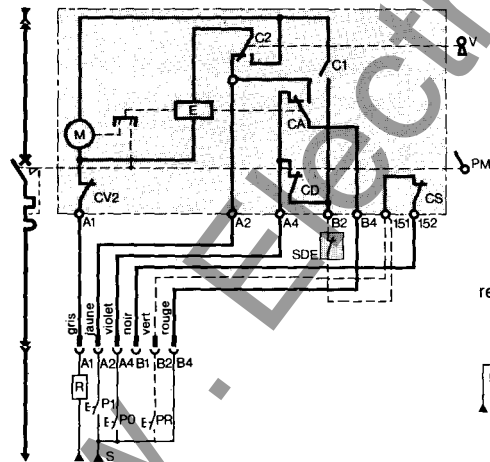
C250N/H/L
1 block of 6 terminals (back view)



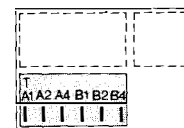
C401/C630N/H/L and C400/C630N/H/L ST
1 block of 6 terminals (back view)



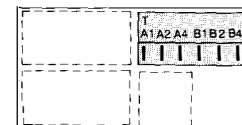
Adaptable motor mechanism type TS



C250N/H/L
1 block of 6 terminals (back view)



C401/C630N/H/L and C400/C630N/H/L ST
1 block of 6 terminals (back view)

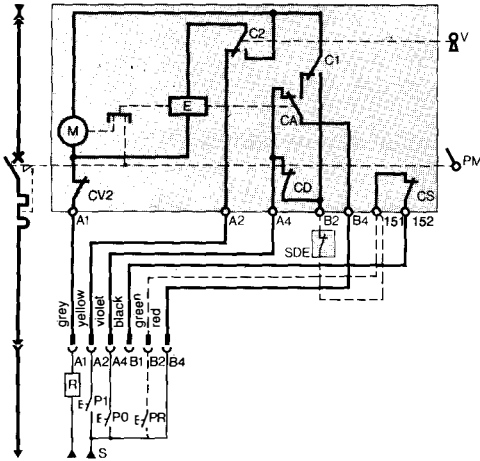


- P1 ON pushbutton
- PO OFF pushbutton
- PR reset pushbutton
- PM emergency manual operation
- PM1 manual closing
- M motor
- E clutching coil
- E1 closing coil
- SD alarm switch which opens on any kind of fault
- SDE alarm switch which opens on any electrical fault
- CA self feeding contact
- C1 limit switch changeover contact allowing non simultaneous continuous signals to be sent
- LD alarm

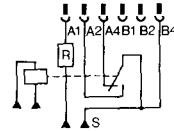
- C2 clutching coil limit switch
- CD incorporated alarm switch which opens on a fault and requires manual resetting and closing
- CV1 locking contact which opens on a manual operation and padlocking
- CV2 locking contact which opens when motor mechanism is rocked
- CS limit contact used for changeover system
- R resistor
- V padlocking or locking

for Compact C800 to C1250N/H/L

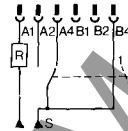
Adaptable motor mechanism type T



relay control

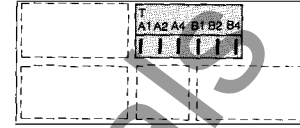


switch control

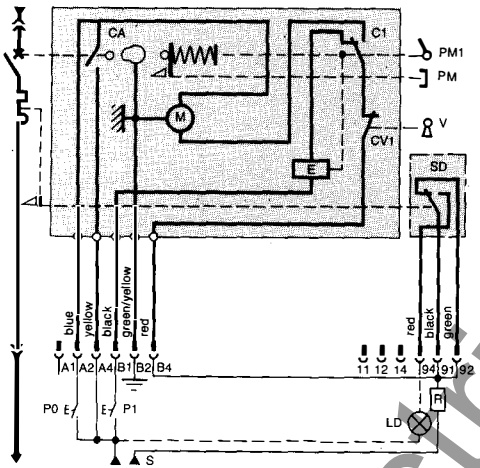


connection

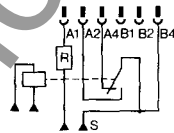
1 block of 6 terminals (back view)



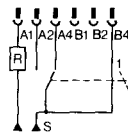
Adaptable motor mechanism type TS



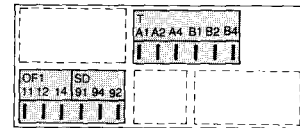
relay control



switch control



2 blocks of 6 terminals (back view)



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characteristics sequence of operation and wiring diagram of automatic source changeover

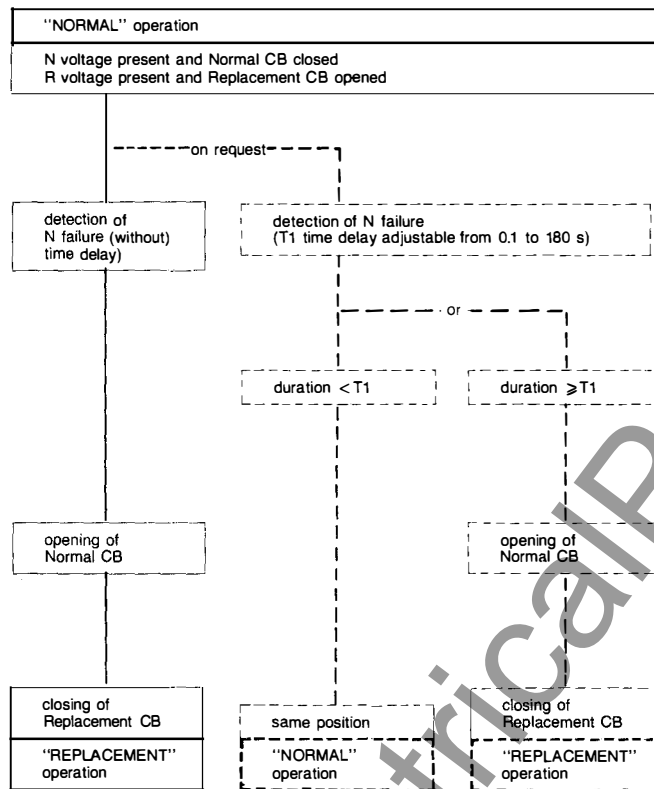
with 2 Compact TC160N/L

with 2 Compact TC160N/L

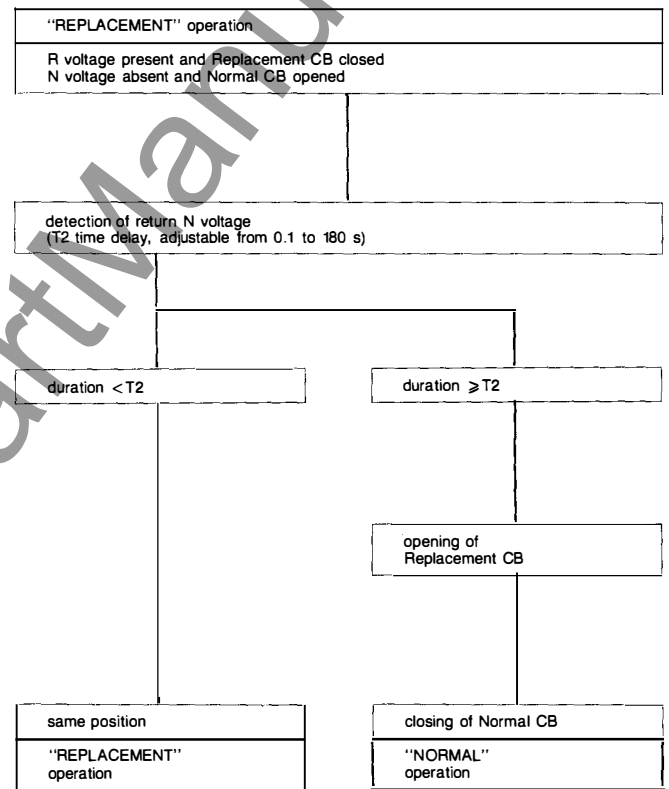
operating

- with replacement supply permanent standby only,
- without selector switch
- without order of load shedding.

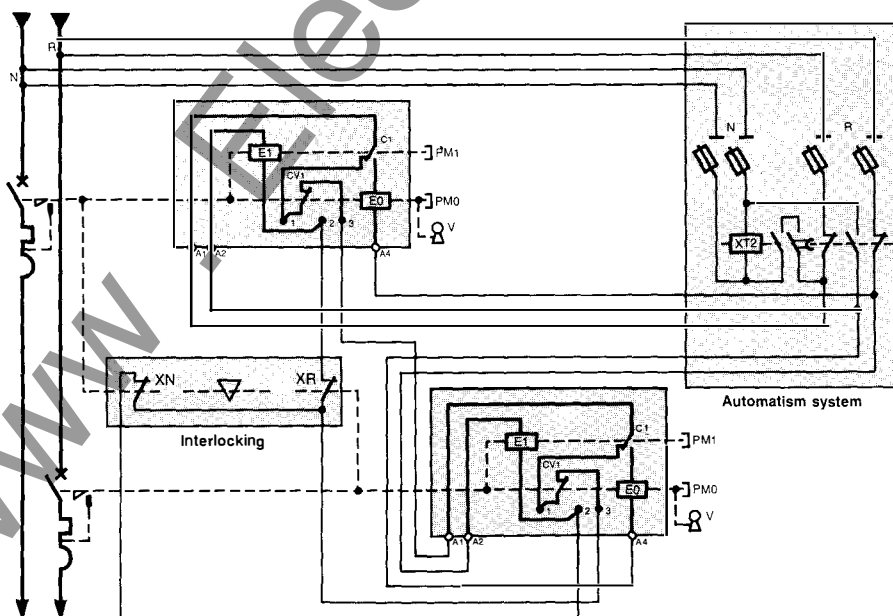
changeover from Normal supply (N) to Replacement supply (R)



reversing from Replacement supply (R) to Normal supply (N)



wiring diagram



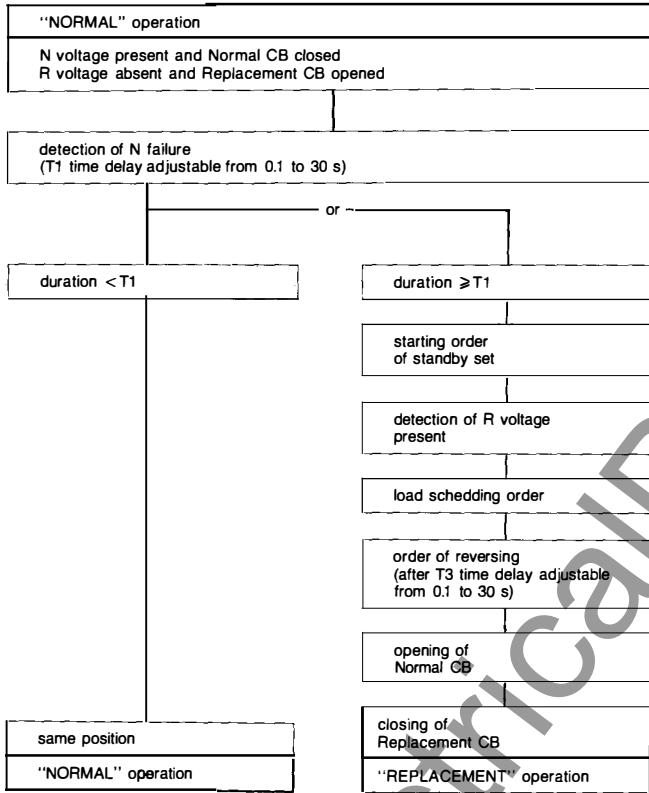
- PM1 manual closing
- PM0 manual opening
- E1 closing coil
- E0 opening coil
- C1 limit switch changeover contact allowing non simultaneous continuous signals to be sent
- CV1 locking contact which opens on a manual operation and padlocking
- V padlocking or locking
- XN locking contact (on interlocking device) which opens on closing Normal CB
- XR locking contact (on interlocking device) which opens on closing Replacement CB
- XT2 time delay relay for detection of N failure voltage

with 2 Compact C250 to C1250N/H/L

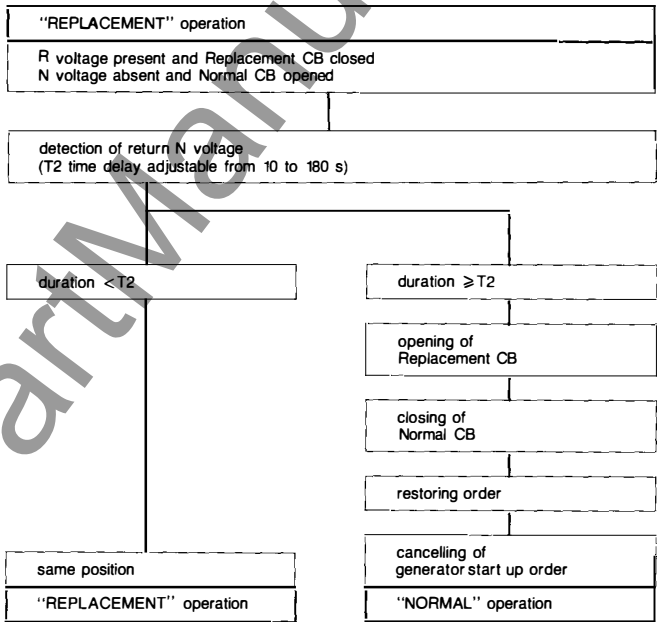
operating

- motor mechanisms: type T
- selector switch "Auto".
- standby set: stopped.

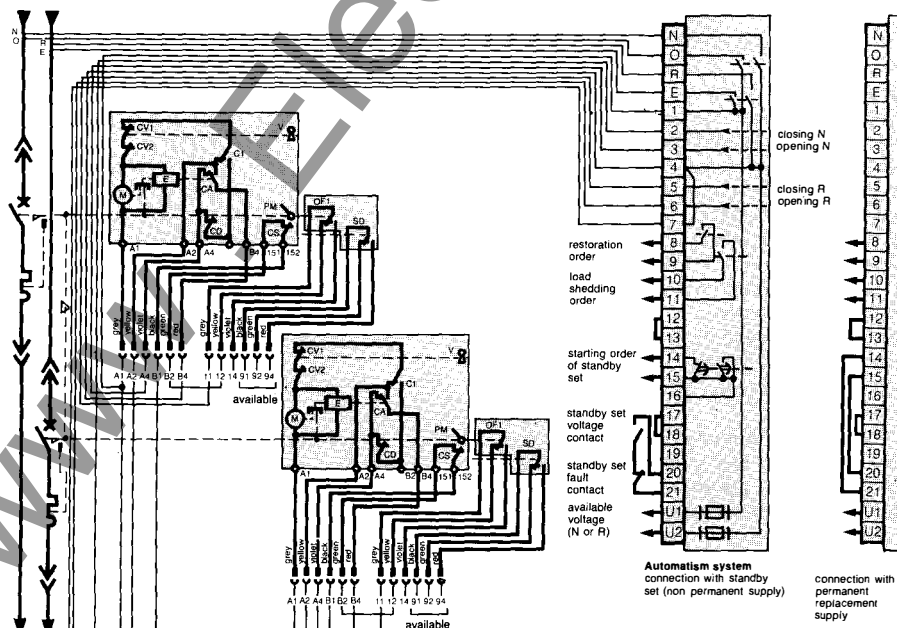
changeover from Normal supply (N)
to Replacement supply (R)



reversing from Replacement supply (R)
to Normal supply (N)



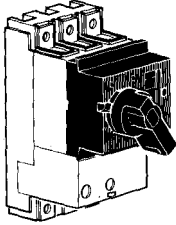
wiring diagram



- PM emergency manual operation
- M motor
- E clutching coil
- SD alarm switch which opens on any kind of fault
- CA self feeding contact
- C1 limit switch changeover contact allowing non simultaneous continuous signals to be sent and requires manual resetting and closing
- CD incorporated alarm switch which opens on a fault and requires manual resetting and closing
- CV1 locking contact which opens on a manual operation and padlocking
- CV2 locking contact which opens when motor mechanism is rocked
- CS limit contact used for changeover system
- V padlocking or locking

direct rotary handle

Direct rotary handle



The direct rotary handle is available for all the Compact circuit breakers. It mainly consists of:

- an **adaptation frame** fitted on the Compact,
- a **toggle** always lockable by 3 padlocks (not supplied),
- a **driving system**, which links this toggle with the adaptation frame.

This handle can be transformed into an extended rotary handle by means of a set of accessories, supplied on option. The positive **break indication** is kept with the direct rotary handle.

Degree of protection: IP 40.

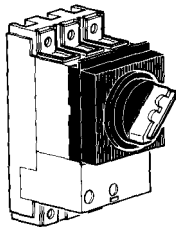
Dimensions: page 113

The direct rotary handle is fitted in place of the cover.

It can be optionally fitted with:

- a red toggle with a yellow escutcheon to comply with the VDE standard;
- a key lock (see "locking devices");
- a CAM contact with early break or make depending on fitting (see page 40).

Direct rotary handle MCC type



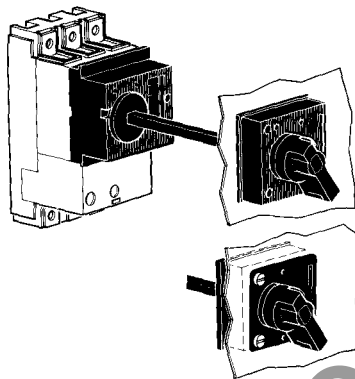
The direct rotary handle MCC type designed for Compact C101 to C250N/H/L used in Motor Control Centers. It comes as a single part whose toggle is always lockable by 3 padlocks (not supplied). This handle cannot be fitted with any other accessory.

The positive **break indication** is kept with the MCC type direct rotary handle.

Degree of protection: IP 40.

extended rotary handle

With door locking



The extended rotary handle is made up of a direct rotary handle (see above), completed by:

- an **extension frame for fitting the toggle**,
- an **extension shaft** which exists in 2 models: short or long.

The positive **break indication** is kept with the extended rotary handle.

Degree of protection: IP 55.

Dimensions: page 113

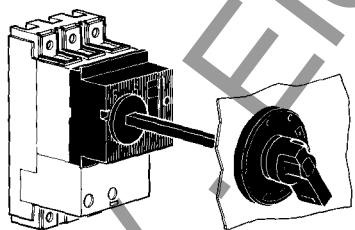
The rotary handle and its extension frame can be fitted:

- either in front of the door,
- or behind the door.

In both cases, a locking device allows the door to be opened only when the circuit breaker is in the "OFF" position.

This rotary handle can be optionally fitted with the same accessories as the direct rotary handle.

Without door locking



The extended rotary handle without door locking equips the Compact C101 to C1250N/H/L.

It comprises the same component parts as the rotary handle with door locking except for the following points:

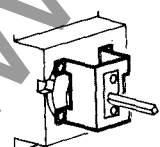
- the extension frame is replaced by an escutcheon to support the toggle,
- the extension shaft only exists in the short model.

The positive **break indication** is kept with the extended rotary handle.

Degree of protection: IP55.

This rotary handle can be optionally fitted with a key lock (see "locking devices").

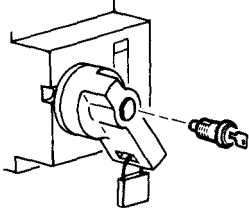
Shaft bracket



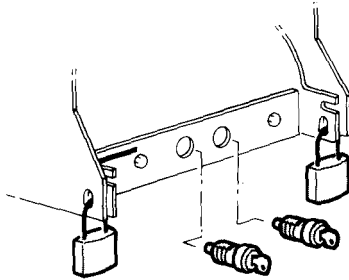
Designed for the rotary handle with extended shaft, this shaft bracket enables to eliminate the play of the shaft and to facilitate the operating of several rotary handles on the same door (systematically supplied for a long shaft).

locking devices

Locking by padlock and key lock



Locking for Compact C101 to C1250N/H/L



Locking for plug-in C800 to C1250N/H/L ST

For Compact C101 to C1250N/H/L

The safety locking devices require a rotary handle to be fitted in addition on the circuit breaker.

To lock the unit in the "OFF" position, this handle comprises:

- a padlocking device for 3 padlocks (not supplied), which is systematically incorporated in the toggle,
- a pre-drilled location, designed to accommodate 1 key lock supplied on option⁽¹⁾, whose key is captive when the unit is in the "ON" position.

For plug-in C161 to C1250N/H/L

The escutcheon of the fixed chassis can receive a locking device which forbids the plug-in of the moving part. The device can receive 3 padlocks, and 1 or 2 (only C800 to C1250N/H/L ST) Ronis key locks 1351.500 or Profalux KS5 B24 D4Z (not supplied). It allows to be locked the Compact circuit-breaker in draw-out position.

For the C800 to C1250N/H/L ST the key locks are available:

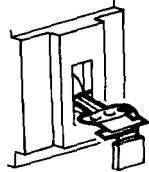
- either with 2 free keys
- or with 1 free key and 1 captive key.

Locking possibilities

type of unit	padlock hasp \varnothing (mm)	key lock type
Compact with rotary handle		
C101 to C1250N/H/L	5 to 8	Ronis 1351.500 or Profalux KS5 B24 D4Z
Visu module		
V250N/H/L		Ronis 1351.500 or Profalux KS5 B24 D4Z
V400 and V630N/H/L	6 to 8	
V800 and V1250	5 to 8	
Plug-in C800 to C1250N/H/L ST		
fixed chassis	5 to 7	Ronis 1351.500 (key chassis) and/or Ronis 1351.500 (key captive), or Profalux KS5 B24 D4Z

(1) Key locking cannot be fitted on the source changeovers.

Other locking devices



Compact C101 to C1250N/H/L with toggle padlocking device

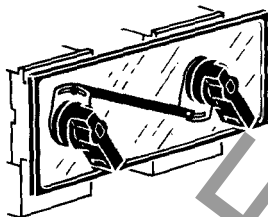
For the Compact C101 to C1250N/H/L,

there is a removable device for 3 padlocks (not supplied), which can be easily fitted when the operation takes place to lock the toggle in the "OFF" position.

interlocking devices

Dimensions: page 113

Mechanical interlock

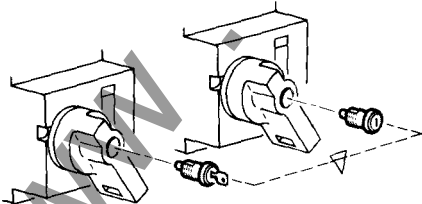


The mechanical interlock is achieved by a mechanism which combines 2 rotary handles to constitute a manual source changeover.

This device forbids the simultaneous closing of the 2 breakers but allows the opening.

The Compact C101 to C1250N/H/L, are fixed normally on a panel or rails.

Interlocking by key locks



This interlocking is easily achieved by equipping each of the 2 Compact, either fixed or plug-in, with a standard key lock system, combining 2 key locks and a single key.

This solution enables 2 geographically distant units to be interlocked.

for Compact C101 to C1250N/H/L

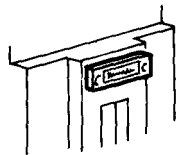
Sealing accessories



The sealing accessories are fitted in the holes provided on the front of the circuit breaker. They are ready to receive the steel wire and lead lock-pin (supplied with the set).

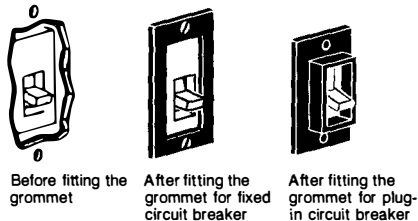
By means of these accessories:
 ■ the circuit breaker cover can be sealed,
 ■ access to the trip release unit settings can be prevented.
Nota: the terminal shields are always supplied with their sealing accessories.

Label holder



The label holder comprises a transparent cover in which a label is fitted marking the protected outgoer. It is fixed by means of self-tapping screws, in 2 holes provided for this purpose on the front of the Compact.

Door cut-out grommet



The grommet is a moulded part which is fitted on the door by simple riveting. It enables a door cut roughly without special finishing to be used. It is available for C100E to C600E and C101 to C1250N/H/L.

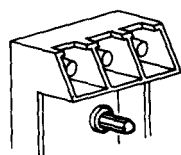
In the plug-in version for C800 to C1250N/H/L ST, a tunnel for the handle fixed to the circuit breaker to pass through, gives a degree of protection of IP 40.

Tight bellows



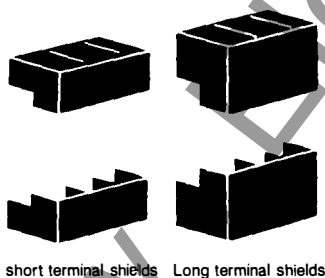
The bellows ensures the tightness of the toggle (IP 43) when operation is performed via a door or an escutcheon. It is fitted on the front of the Compact C225 to C600E and C101 to C630N/H/L with direct handle.

Locator for Compact L type



This locator is designed to avoid the plugging-in of a Compact N or H type in place of a Compact L type. This locator is fitted on the base of Compact C161 to C630L.

Terminal shields

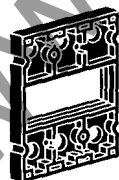


The terminal shields are insulating, sealable accessories used to prevent direct contacts with live parts. The terminal shields are **compulsory**:
 ■ in plug-in version (short terminal shields always supplied with the breaker).
 ■ for voltages ≥ 500 V (short or long terminal shields to be ordered separately).
 According to the type of connection, the Compact can receive:
 ■ either short terminal shields for fixed rear connection and plug-in version,
 ■ or long terminal shields for fixed front connection version.

Fitting possibilities

Compact type		terminal shields		extension
		short	long	
C101N/H/L	fixed FC		■	
C161N/H to C1250N/H	fixed RC	■		
TC 160N	plug-in FC/RC	■		
C400L to C1000L				
C161L, TC 160L	fixed FC		■	■
C250L,	fixed RC	■		
	plug-in FC/RC	■		

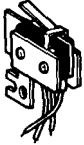
Spacing support



The spacing support enables :
 ■ either to aligne the front face of fixed Compact C101N/H/L with the other Compact.
 A long rear connection has to be used for a fixed RC C101N/H/L when using the spacing support ref. 39991.
 ■ either to replace a fixed FC C125N/H/L by a C101 N/H/L.

for withdrawable Compact C161 to C1250N/H/L

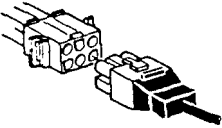
Connected/disconnected position carriage switches



For C161 to C630N/H/L, and in addition to the local position indicator for the C800 to C1250N/H/L, two micro-switches are available for the fixed chassis (of the drawout circuit breaker).

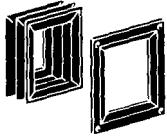
The disconnected position is indicated only when the minimum insulating distance between fixed and moving disconnecting contacts has been reached.
Contacts characteristics:
breaking capacity
5A/250V CA, 2A/24V CC, 0.15A/220V CC

Connections set of auxiliaries



The connections set allows to check the auxiliaries circuits when the breaker is in the disconnected position.
It is possible to fit 1 or 2 connections sets (8 pins).

Watertight escutcheon



For C161 to C630N/H/L the escutcheon ensures the tightness of the handle (IP40) when the control is achieved through a door in connected/disconnected position. It is mounted on the door.



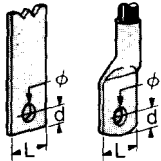
characteristics installation

connection :
Compact C100E to C600E
Compact C101 to C630N/H/L
Compact C400 and C630N/H/L ST

Compact C101 to C630N/H/L, C400 and C630N/H/L ST

direct connection

By bars, or cables with crimped lugs

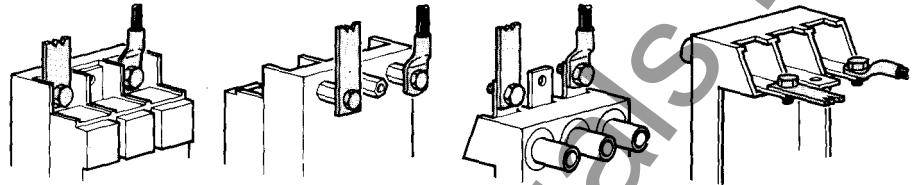


fixed FC

fixed RC

plug-in FC ⁽²⁾

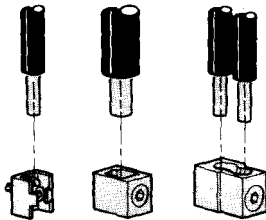
plug-in RC ⁽²⁾



possible dimensions of bars or crimped cable-lugs (mm)

		C100E C101N/H/L	C161N/H/L	TC160N/L	C225E	C250N/H/L	C400/C600E C401/C630N/H/L C400/C630N/H/LST
bars	L	16	25	25	20	30	40 ⁽¹⁾
	d	8	11	12	11	15	20
	∅	6.5	6	8	8	10	12
crimped lugs	L	16	25	25	20	30	40
	∅	6.5	6	8	8	10	12 ⁽¹⁾

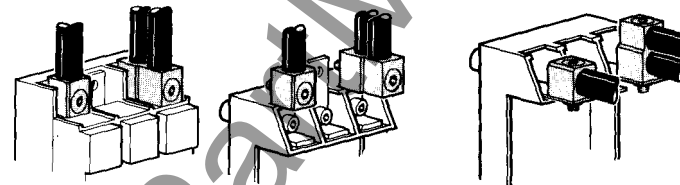
connection with accessories with connectors for bare cables



fixed FC

plug-in FC

plug-in RC



possible dimensions of cable cross-section (mm²)

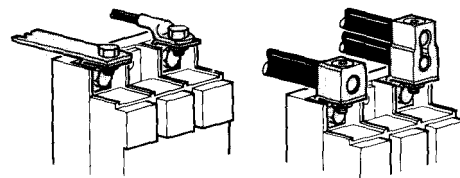
connector	C100E C101N/H/L	C161N/H/L	TC160N/L	C225E	C250N/H/L	C400/C600E C401/C630N/H/L C400/C630N/H/LST
single		2.5 to 16 [□]				
	1.5 to 70 [□] built-in	16 to 95 [□]	16 to 95 [□]	2.5 to 95 [□] 50 to 150 [□]	16 to 185 [□]	70 to 300 [□]
double						2 cables 70 to 240 [□]

Angle terminals



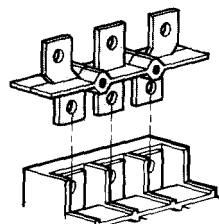
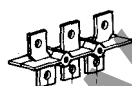
fixed FC
by bars,
or crimped lugs

with connectors
for bare cables



spreader

for C401 and C630N/H/L
for C400 and C630N/H/L ST

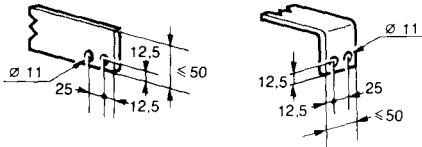


The spreader, intended for the C401 and C630N/H/L, C400 and C630N/H/L ST, enables the pole distance to be increased for easier connections. It allows a width of 60 mm busbars and crimped cable-lugs (compared with a width of 40 mm for direct connection). The spreader takes the same accessories as the direct connection.

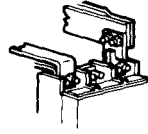
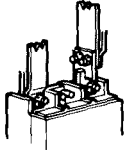
Compact C800 to C1250N/H/L ST

direct connection

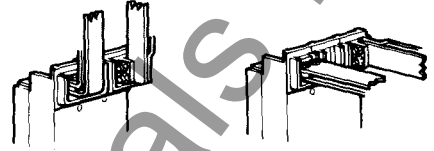
By flat or edgewise bars



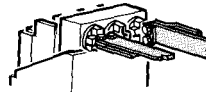
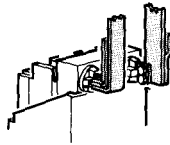
fixed FC



fixed RC

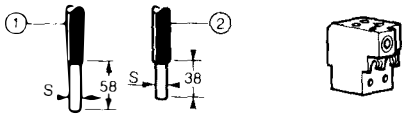


plug-in RC

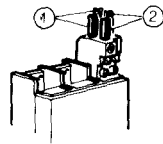


connection with accessories

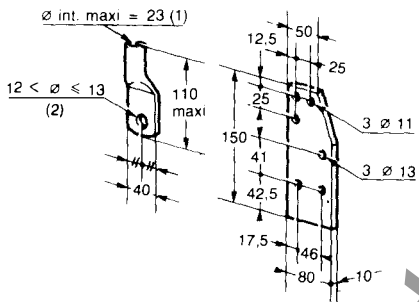
With connectors for bare cables



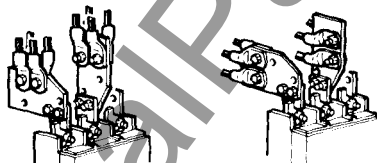
fixed FC



With complementary terminal pads for cables with crimped lugs



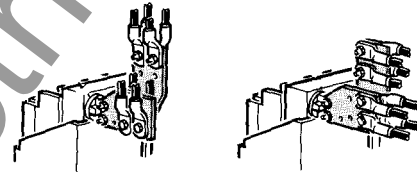
fixed FC



fixed RC



plug-in RC



ordering information

information to be given when ordering

Breaker

- function
- type and rating
- number of poles

Trip unit releases

- number of releases
- type and rating of the release

Version

- fixed, plug-in
- front or rear connected

Auxiliaries

- auxiliary contacts :
 - ON, OFF switch (OF)
 - alarm switch (SD)
- voltage release :
 - shunt trip release (MX)
 - undervoltage release (MN)
- motor mechanism
(specify the voltages and the type of current)

Accessories

- terminal shields, rotary handle, interlock, connection accessories, etc.

The **order acknowledgement** summarizes the order specifications using symbols as illustrated in the examples opposite.

The selection tables in our Compact catalogue can be used to determine the breaker or switch best suited to your needs.

In your order, specify the characteristics as indicated in the examples hereunder (see abbreviation below) :

example 1

Compact MCCB
C401H
4P

3T + N/2
D321

plug-in
rear connected

1 ON-OFF switch
1 alarm switch

1 shunt-trip
240 V - 50 Hz

1 direct rotary handle

C401H - 4P - 3T + N/2
D321 - PI - RC - 1OF - 1SD
1 MX 240 V 50 Hz
1 direct rotary handle

example 2

Vigicompact ELCB
C250N REH
3P

3T
G200

fixed
front connected

1 motor mechanism
48 V DC

C250N REH - 3P - 3T
G200 - F - FC
1 T250 48 V DC

example 3

Compact switch
C630NI
3P

fixed
rear connected

padlocking device

C630NI - 3P - F - RC
1 padlocking device

Abbreviations

MCCB moulded case circuit-breaker
ELCB earth leakage circuit-breaker
UVR undervoltage release
SHT shunt trip release
NO normally open
NC normally closed
p.f. power factor

2P, 3P,... 2-pole, 3-pole,...
2T, 3T,... 2 trips, 3 trips,...
F fixed
PI plug-in
FC front connected
RC rear connected
OF ON-OFF auxiliary contact
SD alarm auxiliary contact
SDE electrical fault auxiliary contact
MX shunt trip
MN undervoltage release
LS low sensitivity
MS medium sensitivity
HS high sensitivity

Compact prices

See separate price list.

low voltage mccb's

Compact 11 to 1250 A

3 part numbers



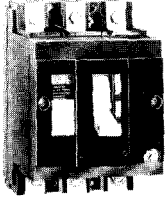


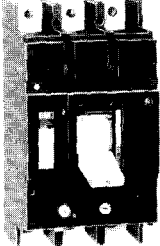


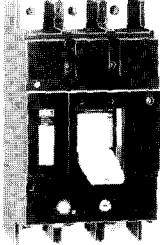






	page
ordering information	56
Compact mccb's and models, auxiliaries and accessories	
Compact C100E to C600E	58
Compact C100NF, F150N	
Compact C101N/H/L	60
Compact C161N/H/L	64
Compact TC160N/L	68
Compact C250N/H/L	70
Compact C401N/H/L	74
Compact C400N/H/L ST	76
Visucompact C400N	78
Visucompact C401N ST	
Compact C630N/H/L	80
Compact C630N/H/L ST	82
Visucompact C630N	84
Visucompact C630N ST	
Compact C800N/H/L ST	86
Compact C1000N/H/L ST	88
Compact C1250N/H ST	90
Visucompact C800N ST	92
Visucompact C1000N ST	
Visucompact C1250N ST	
automatic and manual source changeover	94

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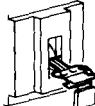




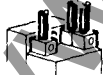
part numbers
C100E to C600E
C100NF, F150N

Compact mccb's C100E to C600E, C100NF and F150N

Auxiliaries and accessories, opposite page
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5

	complete breaker...	... consisting of	
	rating 3P 3t		
	fixed FC  15 40101		
	20 40102		
	30 40103		
	40 40104		
	50 40105		
	60 40106		
	80 40107		
100 40108			
	rating 3P 3t		
	fixed FC  125 43460		
	150 44461		
	175 43462		
	200 43463		
	225 43464		
	fixed RC  125 ■	= C225E fixed FC	
	150 ■	+ 1 set of rear connections	per pole 41190
175 to 225 ■	= C225E fixed FC		
	+ 1 set of rear connections	per pole 43472	
	rating 3P 3t		
	fixed FC  250 44490		
	300 44491		
	350 44492		
	400 44493		
	fixed RC  250 to 400 ■	= C400E fixed FC	
		+ 1 set of rear connections	per pole 44800
		rating 3P 3t	
fixed FC  500 45450			
600 45451			
fixed RC  500 ■		= C600E fixed FC	
600 ■		+ 1 set of rear connections	per pole 44800
		complete breaker... rating 1P 1t	... consisting of :
	fixed FC  15 40010		
	20 40011		
	30 40012		
	40 40013		
	50 40014		
	60 40015		
	80 40016		
100 40017			
	rating 1P 1t		
	fixed FC  125 41509		
	150 41510		



electrical auxiliaries		C100E	C225E	C400E C600E	C100NF F150N
auxiliary double-throw switches					
	1 OF	40036			
	2 OF		42901		
	1 SD	40037			
	1 OF + 1 SD		42902	44900	
	3 OF + 1 SD			44901	
voltage release (for remote tripping)					
	MX (shunt trip) AC 50/60 Hz or DC (1)(V)				
	24	40022 ①	42910	44910	
	48/60	40023 (48V)	42911	44911	
	110/130	40031	42912	44912	
	220/240	40032			
	220/300		42913	44913	
	380/415	40033			
	MN (undervoltage release) AC 50 Hz (V)				
	110/130		42920	44920	
	220/240		42921	44921	
	380/415		42922	44922	
	CA 60 Hz (V)				
220/240		42928	44928		
DC (V)	24		42923	44923	
	48		42924	44924	
	110/130		42925	44925	
	250		42926	44926	
	accessories				
locking by padlocks or key lock					
	of the toggle (in open position) by 3 padlocks (not supplied)	44936	44936	44936	44936
circuit label holder					
	pack of 10	42976	42976	42976	
cutout grammet					
	for door	42977	42977	44938	
tight bellows					
	for toggle (IP43)		41318	44965	
sealable terminal shields					
	short term. shields 3P	3x 40041 ①	42960	44829	40041 ①
	long term. shields 3P	40040	42962	44831	
phase separators					
	rating 125A to 150A		42964		
	rating 175A to 225A		43470		
connection (see p. 54)					
connectors for bare cable					
	single connectors per pole for 1 cable $70 \leq S \leq 300$			44813	
	double connector per pole for 2 cable $70 \leq S \leq 240$			44814	
	1 set of 3 connectors				
	rating 125A to 150A		41184		
	rating 175A to 225A with phase separators		43473		
spreader					



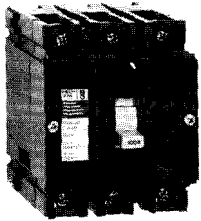
part numbers C101N/H/L

Compact mccb's C101N/H/L with D type trip unit

Auxiliaries and accessories page 63
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5

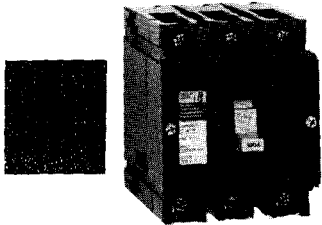


Compact C101N



		complete breaker...					..consisting of:	
		rating	2P 2t	3P 3t	4P 3t	4t	3t + N/2	
fixed FC		15	38500	38510	38520	38530		
		25	38502	38512	38522	38532		
		40	38503	38513	38523	38533		
		63	38505	38515	38525	38535		
		80	38506	38516	38526	38536		
		100	38507	38517	38527	38537		
fixed RC		15	38550	38560	38570	38580		= C101N fixed FC + 1 set of rear connections (1) per pole 39998
		25	38552	38562	38572	38582		
		40	38553	38563	38573	38583		
		63	38555	38565	38575	38585		
		80	38556	38566	38576	38586		
		100	38557	38567	38577	38587		
plug-in FC RC		15	38600	38610	38620	38630		= C101N fixed FC + 1 set of plugs per pole 39985 + 1 plug-in base FC/RC 2P 39972 3P 39973 4P 39974 + 1 set of short term. shields 2P/3P 39983 4P 39984
		25	38602	38612	38622	38632		
		40	38603	38613	38623	38633		
		63	38605	38615	38625	38635		
		80	38606	38616	38626	38636		
		100	38607	38617	38627	38637		

Compact C101H



		rating	3P 3t	4P 3t	4t	3t + N/2	
fixed FC		15	38660	38670	38680		
		25	38662	38672	38682		
		40	38663	38673	38683		
		63	38665	38675	38685		
		80	38666	38676	38686		
		100	38667	38677	38687		
fixed RC		15	38710	38720	38730		= C101H fixed FC + 1 set of rear connections (1) per pole 39998
		25	38712	38722	38732		
		40	38713	38723	38733		
		63	38715	38725	38735		
		80	38716	38726	38736		
		100	38717	38727	38737		
plug-in FC RC		15	38760	38770	38780		= C101H fixed FC + 1 set of plugs per pole 39985 + 1 plug-in base FC/RC 3P 39973 4P 39974 + 1 set of short term. shields 3P 39983 4P 39984
		25	38762	38772	38782		
		40	38763	38773	38783		
		63	38765	38775	38785		
		80	38766	38776	38786		
		100	38767	38777	38787		

Compact C101L



		rating	3P 3t	4P 3t	4t	3t + N/2	
fixed FC		15	38810	38820	38830		
		25	38812	38822	38832		
		40	38813	38823	38833		
		63	38815	38825	38835		
		80	38816	38826	38836		
		100	38817	38827	38837		
fixed RC		15	39720	39730	39740		= C101L fixed FC + 1 set of rear connections (1) per pole 39998
		25	39722	39732	39742		
		40	39723	39733	39743		
		63	39725	39735	39745		
		80	39726	39736	39746		
		100	39727	39737	39747		
plug-in FC RC		15	38860	38870	38880		= C101L fixed FC + 1 set of limiter plugs per pole 39992 + 1 plug-in base FC/RC 3P 39973 4P 39974 + 1 set of short term. shields 3P 39983 4P 39984
		25	38862	38872	38882		
		40	38863	38873	38883		
		63	38865	38875	38885		
		80	38866	38876	38886		
		100	38867	38877	38887		

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Vigicompact mccb's C101N/H/L
Compact mccb's C101N/H/L
with Vigirex RCD

Auxiliaries and accessories page 63
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



Vigicompact C101N REH*



		complete breaker...				...consisting of:	
		rating	3P 3t	4P 3t	4t	3t + N/2	
fixed FC		15	38910	38920	38930		= C101N fixed FC
		25	38912	38922	38932		+ 1 Vigi module REH 101
		40	38913	38923	38933		3P 39944 4P 39945
		63	38915	38925	38935		
		80	38916	38926	38936		
fixed RC		15	■	■	■		= C101H REH fixed FC
		to 100					+ 1 set of rear connections (1) per pole 39998
plug-in RC		15	■	■	■		= C101N REH fixed FC
		to 100					+ 1 set of Vigi plugs per pole 39992 + 1 plug-in base FC/RC 3P 39973 4P 39974 + 1 set of short term. shields 3P 39983 4P 39984

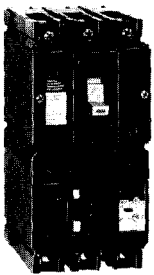
Vigicompact C101H REH*

fixed FC		15	■	■	■		= C101H fixed FC
		to 100					+ 1 Vigi module REH 101 3P 39944 4P 39945
fixed RC		15	■	■	■		= C101H REH fixed FC
		to 100					+ 1 set of rear connections (1) per pole 39998
plug-in RC		15	■	■	■		= C101H REH fixed FC
		to 100					+ 1 set of Vigi plugs per pole 39992 + 1 plug-in base FC/RC 3P 39973 4P 39974 + 1 set of short term. shields 3P 39983 4P 39984

Vigicompact C101L REH*

fixed FC		15	■	■	■		= C101L fixed FC
		to 100					+ 1 Vigi module REH 101 3P 39944 4P 39945
fixed RC		15	■	■	■		= C101L REH fixed FC
		to 100					+ 1 set of rear connections (1) per pole 39998
plug-in RC		15	■	■	■		= C101L REH fixed FC
		to 100					+ 1 set of Vigi limiter plugs per pole 39996 + 1 plug-in base FC/RC 3P 39973 4P 39974 + 1 set of short term. shields 3P 39983 4P 39984

Vigicompact C101N/H/L RMM*



		rating	3P 3t	4P 3t	4t	3t + N/2	
fixed FC		15	■	■	■		= C101N/H/L same versions as for Vigicompact REH
		to 100					+ 1 Vigi module RMM 101 3P 39946 4P 39947
fixed RC		15	■	■	■		
		to 100					
plug-in RC		15	■	■	■		
		to 100					

Compact C101N/H/L with a Vigirex RCD and a separate toroid



Compact fixed or plug-in
 (see page before)

voltage release
 (see page electrical auxiliaries)

Vigirex RCD

RH50	220/240V	50040
	220/240V inherent safety model	50041
RH53A	220/240V	50082
	380/415V	50084

toroidal sensor

TNØ30 plug-in	50105
TFØ30	50135
PNØ50	50106

shielded wire
 (2 conductors)

l = 100 m	50136
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(1) long rear connection ref. 39991 when using spacing

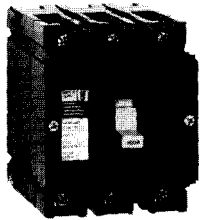
part numbers
C101N/H/L (continued)

Compact mccb's C101N/H/L
G and MA type

Auxiliaries and accessories, opposite page
Characteristics page 17
Dimensions, tripping curves page 113
Presentation page 5

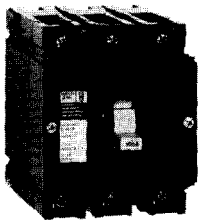


Compact C101N
type G*



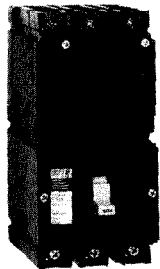
complete breaker...			rating		3P 4P		3t 3t 4t		...consisting of:
fixed FC		G15	39360	39380					
		G25	39362	39382					
		G40	39363	39383					
		G63	39365	39385					
		G80	39366	39386					
		G100	39367	39387					
fixed RC		G15 to G100	■	■					= C101N type G fixed FC + 1 set of rear connections (1) per pole 39998
		plug-in FC RC		G15 to G100	■	■			

Compact C101H
type MA



complete breaker...			rating		3P 4P		3t 3t 4t		...consisting of:
fixed FC		MA2,5	39410						
		MA6,3	39411						
		MA12,5	39412						
		MA25	39413						
		MA50	39414						
		MA100	39415						
fixed RC		MA2,5	39460						= C101H type MA fixed FC 1 set of rear connections (1) per pole 39998
		MA6,3	39461						
		MA12,5	39462						
		MA25	39463						
		MA50	39464						
		MA100	39465						
plug-in FC RC		MA2,5	39510						= C101H type MA fixed FC + 1 set of plugs per pole 39985 + 1 plug-in base FC/RC 3P 39973 + 1 set of short term. shields 3P 39983 4P 39984
		MA6,3	39511						
		MA12,5	39512						
		MA25	39513						
		MA50	39514						
		MA100	39515						

Compact C101L
type MA



complete breaker...			rating		3P 4P		3t 3t 4t		...consisting of:
fixed FC		MA2,5	39560						
		MA6,3	39561						
		MA12,5	39562						
		MA25	39563						
		MA50	39564						
		MA100	39565						
fixed RC		MA2,5	39610						= C101L type MA fixed FC + 1 set of rear connections (1) per pole 39998
		MA6,3	39611						
		MA12,5	39612						
		MA25	39613						
		MA50	39614						
		MA100	39615						
plug-in FC RC		MA2,5	39660						= C101L type MA fixed FC + 1 set of limiter plugs per pole 39992 + 1 plug-in base FC/RC 3P 39973 4P 39974 + 1 set of short term. shields 3P 39983 4P 39984
		MA6,3	39661						
		MA12,5	39662						
		MA25	39663						
		MA50	39664						
		MA100	39665						

electrical auxiliaries

auxiliary double-throw switches

1 OF	40036
2 OF	2 x 40036
1 OF + 1 SD	40036 + 40037
1 CAM (for rotary handle)	39981

voltage release (for remote tripping)

MX (shunt trip)		DC	
AC 50/60 Hz (V)		24 (V)	48 (V)
24	40022	24	40029
48	40023	48	40030
110/130	40031	110/125	40028
220/240	40032	250	40026
380/415	40033		
440/480	40034		

MN (undervoltage release)		DC	
AC 50/60 Hz (V)		24 (V)	48 (V)
24	40038	24	40047
48	40039	48	40048
110/130	40044	110/130	40049
220/240	40045	250	40050
380/415	40046		
440/480	40043		

MN (with time delay relay)		
220 V 50/60 Hz		
= MN 110/130 V	40049	
+ time delay relay		
250/700 ms	+ 42930	

auxiliary wire block (see quantity p. 44)

moving part		
short wires	3 term.	42942
for types N/H	6 term.	42943
fixed part		
for all types	3 term.	42940
	6 term.	42941
pack of 24 female clips		42946

accessories

direct rotary handle

standard		
with black toggle		39980
red toggle only		42891
watertight escutcheon (CNOMO)		42892

MCC type	39979
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extended rotary handle

with door locking		
front door mounting		
short shaft	39977	(= 39980 + 42882)
long shaft	39978	(= 39980 + 42884)
rear door mounting		
short shaft	39953	(= 39980 + 42889)
long shaft	39954	(= 39980 + 42897)

without door locking		
front door mounting		
short shaft	39976	(= 39980 + 45853)

accessories for converting direct rotary handle to extended handle

with door locking		
front door mounting		
short shaft	42882	
long shaft	42884	
rear door mounting		
short shaft	42889	
long shaft	42897	
without door locking		
front door mounting		
short shaft	45853	

shaft bracket		
for short shaft	42868	(always included on rotary handles with long shaft)

locking by padlocks or key lock		
of the rotary handle (circuit-breaker in OFF position)		
by 3 padlocks	built-in	
1 Ronis key lock	1351.500	41940
1 Profalux key lock	KS5 B24 D4Z	42888

of the toggle (in OFF position)		
by 3 padlocks		44936

mechanical interlocking (for breakers with rotary handle)		
mechanical device		44826

key locks interlocking (for breakers with rotary handle)		
1 set of 2 Ronis	1351.500	41950
key locks (1 single key)		
1 set of 2 Profalux	KS5 B24 D4Z	42878
key locks		
(1 single key)		

sealing accessories

	for release, adjustment, cover	39970
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circuit label holder

	pack of 10	42976
--	------------	-------

cutout grammet

	for door	42977
--	----------	-------

tight bellows

	for Compact with rotary handle (IP435)	39969
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sealable terminal shields

	short term. shields	2P/3P 39983
		4P 39984
	long term. shields	2P/3P 39994
		4P 39995
	protective shield	2P/3P/4P 42968
	for plug-in base	

spacing support

	enables to aligne	2P/3P 39993
	the front face of	4P 39999
	a fixed C101N/H/L	
	with other Compact	
	1 set of long rear connections	39991

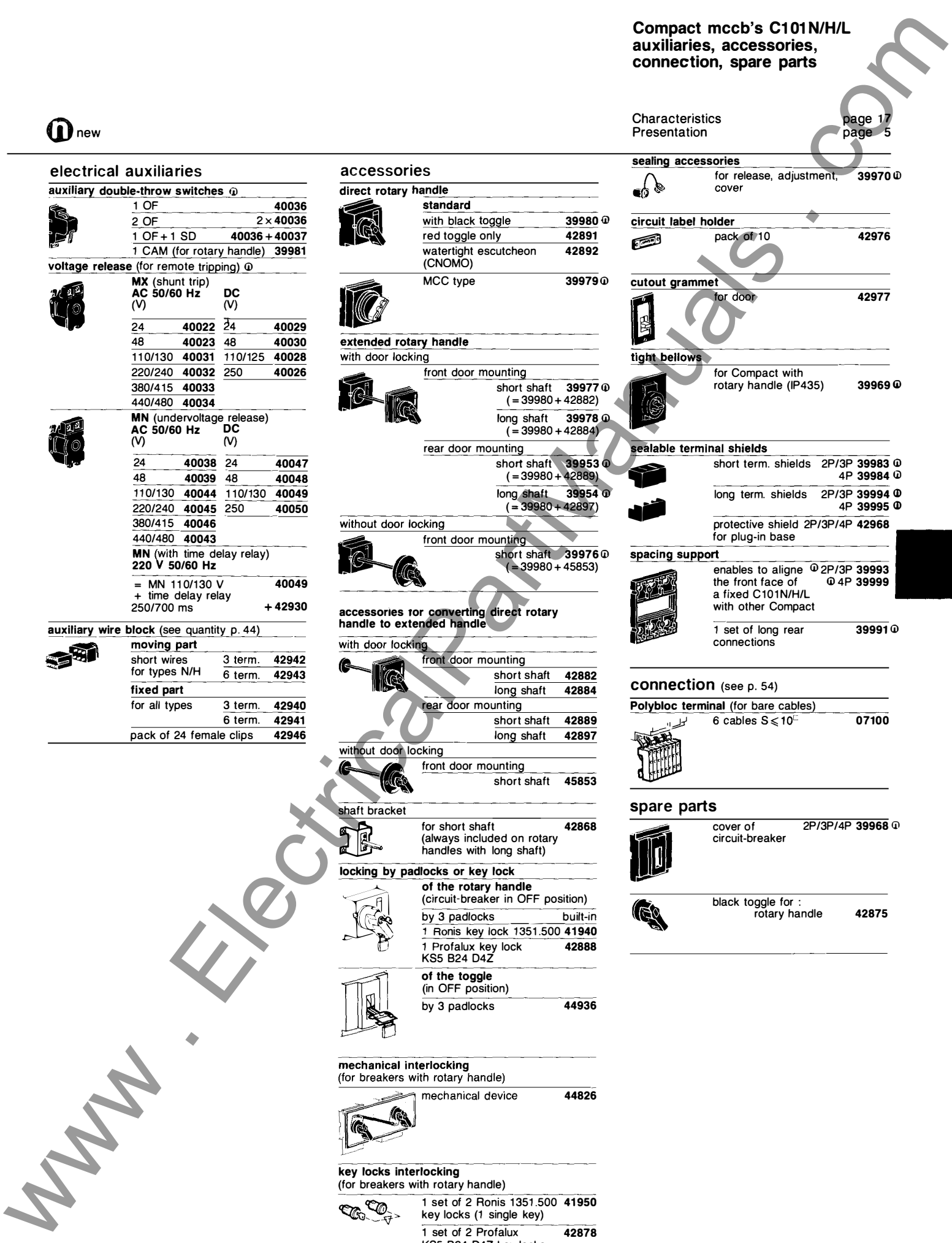
connection (see p. 54)

Polybloc terminal (for bare cables)		
	6 cables $S \leq 10^2$	07100

spare parts

	cover of circuit-breaker	2P/3P/4P 39968
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	black toggle for : rotary handle	42875
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part numbers C161N/H/L

Compact mccb's C161N/H/L with D type trip unit

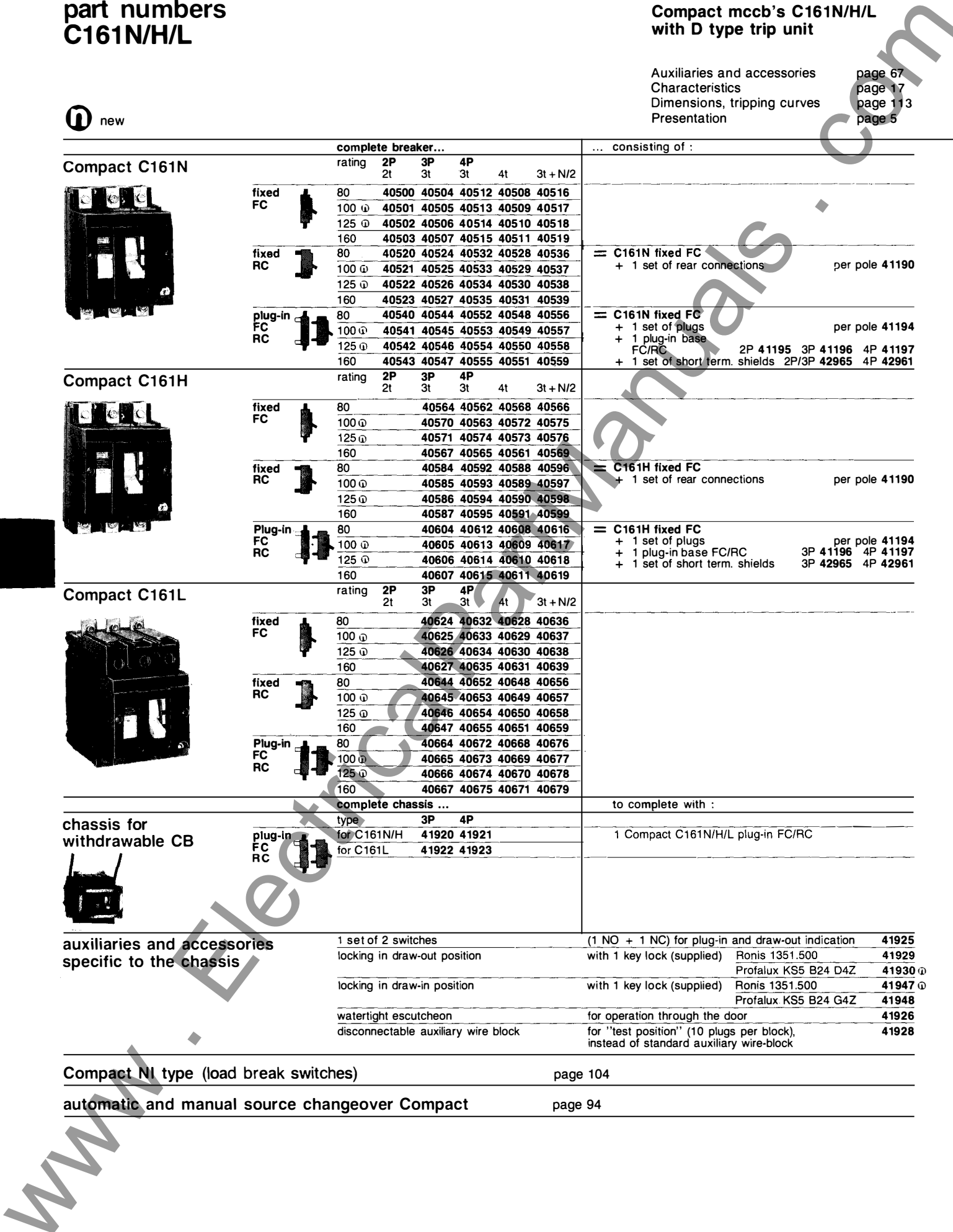
Auxiliaries and accessories page 67
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



		complete breaker...						... consisting of :						
		rating	2P 2t	3P 3t	4P 3t	4t	3t + N/2							
	fixed FC	80	40500	40504	40512	40508	40516	= C161N fixed FC + 1 set of rear connections per pole 41190						
		100 $\text{\textcircled{D}}$	40501	40505	40513	40509	40517							
		125 $\text{\textcircled{D}}$	40502	40506	40514	40510	40518							
		160	40503	40507	40515	40511	40519							
	fixed RC	80	40520	40524	40532	40528	40536			= C161N fixed FC + 1 set of plugs per pole 41194 + 1 plug-in base FC/RC 2P 41195 3P 41196 4P 41197 + 1 set of short term. shields 2P/3P 42965 4P 42961				
		100 $\text{\textcircled{D}}$	40521	40525	40533	40529	40537							
		125 $\text{\textcircled{D}}$	40522	40526	40534	40530	40538							
		160	40523	40527	40535	40531	40539							
	plug-in FC RC	80	40540	40544	40552	40548	40556					= C161H fixed FC + 1 set of rear connections per pole 41190		
		100 $\text{\textcircled{D}}$	40541	40545	40553	40549	40557							
		125 $\text{\textcircled{D}}$	40542	40546	40554	40550	40558							
		160	40543	40547	40555	40551	40559							
	fixed FC	80	40564	40562	40568	40566	= C161H fixed FC + 1 set of rear connections per pole 41190							
		100 $\text{\textcircled{D}}$	40570	40563	40572	40575								
		125 $\text{\textcircled{D}}$	40571	40574	40573	40576								
		160	40567	40565	40561	40569								
	fixed RC	80	40584	40592	40588	40596			= C161H fixed FC + 1 set of plugs per pole 41194 + 1 plug-in base FC/RC 3P 41196 4P 41197 + 1 set of short term. shields 3P 42965 4P 42961					
		100 $\text{\textcircled{D}}$	40585	40593	40589	40597								
		125 $\text{\textcircled{D}}$	40586	40594	40590	40598								
		160	40587	40595	40591	40599								
	Plug-in FC RC	80	40604	40612	40608	40616					= C161L fixed FC + 1 set of rear connections per pole 41190			
		100 $\text{\textcircled{D}}$	40605	40613	40609	40617								
		125 $\text{\textcircled{D}}$	40606	40614	40610	40618								
		160	40607	40615	40611	40619								
	fixed FC	80	40624	40632	40628	40636	= C161L fixed FC + 1 set of rear connections per pole 41190							
		100 $\text{\textcircled{D}}$	40625	40633	40629	40637								
		125 $\text{\textcircled{D}}$	40626	40634	40630	40638								
		160	40627	40635	40631	40639								
	fixed RC	80	40644	40652	40648	40656			= C161L fixed FC + 1 set of rear connections per pole 41190					
		100 $\text{\textcircled{D}}$	40645	40653	40649	40657								
		125 $\text{\textcircled{D}}$	40646	40654	40650	40658								
		160	40647	40655	40651	40659								
	Plug-in FC RC	80	40664	40672	40668	40676					= C161L fixed FC + 1 set of rear connections per pole 41190			
		100 $\text{\textcircled{D}}$	40665	40673	40669	40677								
		125 $\text{\textcircled{D}}$	40666	40674	40670	40678								
		160	40667	40675	40671	40679								
chassis for withdrawable CB	plug-in FC RC	complete chassis ...						to complete with :						
		type	3P	4P										
		for C161N/H	41920	41921									1 Compact C161N/H/L plug-in FC/RC	
		for C161L	41922	41923										
auxiliaries and accessories specific to the chassis		1 set of 2 switches		(1 NO + 1 NC) for plug-in and draw-out indication		41925								
		locking in draw-out position		with 1 key lock (supplied)		Ronis 1351.500 41929								
				Profalux KS5 B24 D4Z		41930 $\text{\textcircled{D}}$								
		locking in draw-in position		with 1 key lock (supplied)		Ronis 1351.500 41947 $\text{\textcircled{D}}$								
				Profalux KS5 B24 G4Z		41948								
		watertight escutcheon		for operation through the door		41926								
		disconnectable auxiliary wire block		for "test position" (10 plugs per block), instead of standard auxiliary wire-block		41928								

Compact NI type (load break switches) page 104

automatic and manual source changeover Compact page 94





Vigicompact mccb's C161N/H/L
Compact mccb's C161N/H/L
with Vigi module REH or RMM

Auxiliaries and accessories page 67
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5

		complete breaker...					... consisting of :		
		rating	3P 3t	4P 3t	4t	3t + N/2			
	fixed FC	80	40854	40862	40858	40866	= C161N fixed FC + 1 Vigi module REH161	3P 41550	4P 41551
		100	40855	40863	40859	40867			
		125	40856	40864	40860	40868			
		160	40857	40865	40861	40869			
	fixed RC	80 to 160	■	■	■	■	= C161N REH fixed FC + 1 set of rear connections	per pole 41190	
	plug-in FC RC	80 to 160	■	■	■	■	= C161N REH fixed FC + 1 set of Vigi plugs + 1 plug-in base FC/RC + 1 set of short term. shields	per pole 41199	
								3P 41196	4P 41197
								3P 42965	4P 42961

		rating	2P 2t	3P 3t	4P 3t	4t	3t + N/2			
	fixed FC	80	■	■	■	■	= C161H fixed FC + 1 Vigi module REH161	3P 41550	4P 41551	
		to 160								
	fixed RC	80 to 160	■	■	■	■	= C161H fixed FC + 1 set of rear connections	per pole 41190		
	plug-in FC RC	80 to 160	■	■	■	■	= C161H REH fixed FC + 1 set of Vigi plugs + 1 plug-in base FC/RC + 1 set of short term. shields	per pole 41199		
								3P 41196	4P 41197	
								3P 42965	4P 42961	

		rating	3P 3t	4P 3t	4t	3t + N/2			
	fixed FC	80	40874	40882	40878	40886	= C161L fixed FC + 1 Vigi module REH161	3P 41550	4P 41551
		100 ⊕	40875	40883	40879	40887			
		125 ⊕	40876	40884	40880	40888			
		160	40877	40885	40881	40889			
	plug-in FC RC	80	40979	40987	40983	40991			
		100 ⊕	40980	40988	40984	40992			
		125 ⊕	40981	40989	40985	40993			
		160	40982	40990	40986	40994			

		rating	3P 3t	4P 3t	4t	3t + N/2		
	fixed FC	80	■	■	■	= C161N/H/L same versions as for Vigicompact REH + 1 Vigi module RMM161	3P 41612	4P 41613
		to 160						
	fixed RC (1)	80	■	■	■			
		to 160						
	plug-in FC RC (1)	80	■	■	■			
		to 160						

Compact C161N/H/L with a Vigirex RCD and a separated toroid

+

 +

 +

Compact fixed or plug-in (see page before)	voltage release (see page electrical auxiliaries)	Vigirex RCD ⊕	toroidal sensor ⊕	shielded wire ⊕ (2 conductors)
		RH50 220/240V 50040	TNØ30 plug-in 50105	l = 100 m 50136
		220/240V 50041	TFØ30 50135	
		inherent safety model	PNØ50 50106	
		RH53A 220/240V 50082		
		380/415V 50084		

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part numbers
C161N/H/L (continued)

Compact mccb's C161N/H/L
G and MA type
Visucompact mccb's C161N

Auxiliaries and accessories, opposite page
Characteristics page 17
Dimensions, tripping curves page 113
Presentation page 5



		complete switch...				... consisting of			
		rating	3P 3t	4P 3t	4P 4t				
	fixed FC	G63	40896	40897	40897	= C161N type G fixed FC + connection accessories as for C161N (see p. 64)			
		G80	40744	40748					
		G100	40745	40749					
		G125	40746	40750					
		G160	40747	40751					
	fixed RC	G80 to G160	■	■					
		plug-in FC RC	G80 to G160	■	■				
		fixed FC	SA80	40704	40708			= C161H type SA fixed FC + connection accessories as for C161H (see p. 64)	
			SA100	40705	40709				
			SA125	40706	40710				
SA160			40707	40711					
fixed RC		SA80 to SA160	■	■					
		plug-in FC RC	SA80 to SA160	■	■				
		fixed FC	SA80	40724	40728				
			SA100	40725	40729				
			SA125	40726	40730				
	SA160		40727	40731					
	fixed RC	SA80	40955	40959					
		SA100	40956	40960					
		SA125	40957	40961					
		SA160	40958	40962					
	plug-in FC RC	SA80	40967	40971					
		SA100	40968	40972					
		SA125	40969	40973					
		SA160	40970	40974					
			fixed FC	MA100	40765	40773			= C161H type MA fixed FC + connection accessories as for C161H (see p. 64)
				MA125	40766	40774			
MA160	40767			40775					
fixed RC	MA100		40785	40793					
	MA125		40786	40794					
	MA160		40787	40795					
plug-in FC RC	MA100 to MA160	■	■						
		fixed FC	MA100	40805	40813				
MA125			40806	40814					
MA160			40807	40815					
fixed RC		MA100	40835	40843					
		MA125	40836	40844					
		MA160	40837	40845					
plug-in FC RC	MA100	40935	40939						
	MA125	40936	40940						
	MA160	40937	40941						
	fixed FC	rating	3P 3t	4P 3t	4t	3t + N2	= C161N fixed FC + 1 Visu module V160		
		80 to 160	■	■	■	■		3P 42413 4P 42414	
		80 to 160	■	■	■	■			
	fixed RC	rating	3P 3t	4P 3t	4t	3t + N2	= Visucompact C161N fixed FC + 2 sets of TC160N RC (for line-side) + 2 sets of C161N RC (for load-side)		
		80 to 160	■	■	■	■		2 x 42450 2 x 41190	
		80 to 160	■	■	■	■			
						= Visucompact C161N fixed FC/RC + 1 Vigi module REH161 3P 41550 4P 41551 or Vigi module RMM161 3P 41612@4P 41613@			

auxiliaries and accessories
specific to the Visucompact


auxiliary double-throw switch OF standard or CAM early break depending on mounting 42906
earthing switch for neutral in open position (compulsory if the transformer neutral is earthed on the load side of the Visucompact) 42415

locking of the Visu mode in open position by 3 padlocks (not supplied) built-in
by Ronis key lock 1351.500 (supplied) 41940
by Profalux key lock KS5 B24 D4Z (supplied) 42888


terminal shields for Visucompact or earth leakage Visucompact long terminal shields for FC (1 set) 3P 42969 4P 42963
short terminal shields for RC (1 set) 3P 42971 4P 42961


electrical auxiliaries

auxiliary double-throw switches

	2 OF	42901
	1 OF + 1 SD	42902
	1 CAM (for rotary handle or Visu module)	42905

voltage release (for remote tripping)


	MX (shunt trip)	
	AC 50/60 Hz or DC (V)	
	24	42910
	48/60	42911
	110/130	42912
	220/300	42913
	380/480	42914

	MN (undervoltage release)	
	AC 50 Hz (V)	DC (V)
	48	24
	110/130	48
	220/240	110/130
	380/415	250
	525	

AC 60 Hz (V)	
110/127	42931
220/240	42928
440	42933


MN (with time delay relay)	
220 V 50/60 Hz	
= MN 110/130 V	
+ time delay relay	42925
250/700 ms	42930


auxiliary wire block (see quantity p. 44)

	moving part	
	short wires	3 term. 42942
	for types N/H	6 term. 42943
	long wires	3 term. 42944
	for type L	6 term. 42945
fixed part		
	for all types	3 term. 42940
		6 term. 42941
	pack of 24 female clips	42946

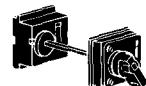
accessories

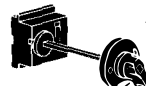
direct rotary handle

	with black toggle	41310
	red toggle	42891
	watertight escutcheon	42892

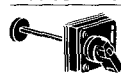
	MCC type	41316
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extended rotary handle


with door locking		
front door mounting		
	short shaft	41312
	(= 41310 + 42882)	
	long shaft	41311
	(= 41310 + 42884)	

without door locking		
front door mounting		
	short shaft	41322
	(= 41310 + 45853)	
	long shaft	41320
	(= 41310 + 42897)	

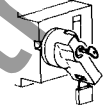
accessories for converting direct rotary handle to extended handle

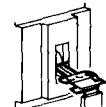
with door locking		
front door mounting		
	short shaft	42882
	long shaft	42884
rear door mounting		
	short shaft	42889
	long shaft	42897

without door locking		
	short shaft	45853

	shaft bracket	
	for short shaft	42868
	(always included on rotary handles with long shaft)	

locking by padlocks or key lock


of the rotary handle (circuit-breaker in OFF position)		
by 3 padlocks (not supplied) built-in		
	1 Ronis key lock 1351.500	41940
	1 Profalux key lock KS5 B24 D4Z	42888

of the toggle (in OFF position)		
	by 3 padlocks (not supplied)	44936


mechanical interlocking (for breakers with rotary handle)

	mechanical device	44826
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key locks interlocking (for breakers with rotary handle)


	1 set of 2 Ronis 1351.500 key locks (1 single key)	41950
	1 set of 2 Profalux KS5 B24 D4Z key locks (1 single key)	42878

sealing accessories

	for release, adjustment, cover	42975
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circuit label holder


cut-out grommet

	for door	42977
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tight bellows

	for toggle (IP43)	41318
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locator

	for plug-in Compact C161L	42463
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sealable terminal shields

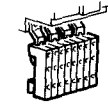
	short term. shields	2P/3P 42965
		4P 42961
	long term. shields	2P/3P 42962
		4P 42963
	extension for L type	3P 42966
		4P 42967
	protective shield for plug-in base	2P/3P/4P 42968
	phase separators	2P/3P 42964

accessories for substitution


	mounting a C161N/H on a C160 base	2P/3P 40953
		4P 40954

connections (see p. 54)

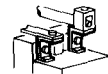
Polybloc terminal (for bare cables)

	6 cables $S \leq 10^2$	07100
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connectors for bare cables


	$2.5^C \leq S \leq 16^C$	per pole 41185
	$16^C \leq S \leq 95^C$ (Al)	per pole 40950
	$16^C \leq S \leq 95^C$	per pole 41183

angle terminals (prohibited on C161H)


	for fixed FC version (long terminal shields compulsory)	per pole 41187
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spare parts

	cover	2P/3P 41350
		4P 41351

	neutral pole cap for 4-pole equipment with rotary handle	41313
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	toggle	41352
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	black toggle for : rotary handle	42875
	Visu module V160	42885

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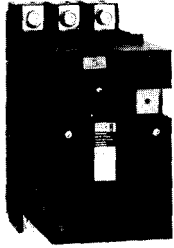
part numbers TC160N/L for remote control

Compact mccb's TC 160N/L with type D trip unit

Auxiliaries and accessories, opposite page
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



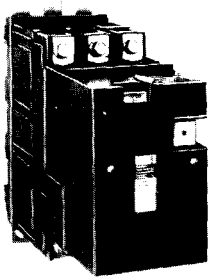
Compact TC160N*



		Complete breaker...				
		rating	2P 2t	3P 3t	4P 3t	4t 3t + N/2
fixed FC		25	42580	42586	42592	42598
		40	42581	42587	42593	42599
		63	42582	42588	42594	42600
		100	42583	42589	42595	42601 42607
		160	42584	42590	42596	42602 42608
fixed RC		≤ 63	■	■	■	■
		100	■	■	■	■
		160	■	■	■	■
plug-in FC RC		≤ 63	■	■	■	■
		100	■	■	■	■
		160	■	■	■	■

... consisting of :	
≡	TC160N without release and MT module 2P 42570 3P 42571 4P 42572 + type D release (see opposite page) + MT module 220/240 V AC 42951 (other voltages, see opposite page)
≡	TC160N fixed FC + 1 set of rear connections per pole 42450
≡	TC160N fixed FC + 1 set of plugs 42452 + 1 plug-in base FC/RC 2P 42457 3P 42458 4P 42459 + 1 set of short term. shields 2P/3P 42960 4P 42961 + 1 3-terminal block moving part 42944 fixed part 42940

Compact TC160L*



		rating	3P 3t	4P 3t	4t	3t + N/2
fixed FC		25	42636	42642	42648	
		40	42637	42643	42649	
		63	42638	42644	42650	
		100	42639	42645	42651 42657	
		160	42640	42646	42652 42658	
fixed RC		≤ 63	■	■	■	■
		100	■	■	■	■
		160	■	■	■	■
plug-in FC RC		≤ 63	■	■	■	■
		100	■	■	■	■
		160	■	■	■	■

≡	TC160L fixed FC, without release and MT module 3P 42621 4P 42622 + type D release (see at foot) + MT module 220/240 V AC 42951 (other voltages, see opposite page)
≡	TC160L fixed RC, without release and MT module 3P 42660 4P 42661 + type D release (see at foot) + MT module 220/240 V AC 42951 (other voltages, see opposite page)
≡	TC160L without release, plug-in without base and MT module 3P 42664 4P 42665 + type D release (see at foot) + MT module 220/240 V AC 42951 (other voltages, see opposite page) + 1 plug-in base FC/RC 3P 42458 4P 42459 + 1 set of short term. shields 2P/3P 42960 4P 42961 + 1 3-terminal block moving part 42944 fixed part 42940

trip units



Standard type D release					
rating	2P 2t	3P 3t	4P 3t	4t	3t + N/2
D25	42380	42386	42820	42392	
D40	42381	42387	42821	42393	
D63	42382	42388	42822	42394	
D100	42383	42389	42823	42395 42401	
D160	42384	42390	42824	42396 42402	
Selective type SA release for TC160L only					
rating	3P 3t	4P 4t			
SA63	42423	42426			
SA100	42424	42427			
SA160	42425	42428			
Type MA release					
rating	3P 3t	4P 4t			
MA160	42441	42442			

Low magnetic setting type G release		
rating	3P 3t	4P 4t
G63	42830	42836
G80	42831	42837
G100	42832	42838
G125	42833	42839
G160	42834	42840
Selective type SB release for TC160L only		
rating	3P 3t	4P 4t
SB100	42430	42433
SB125	42431	42434
SB160	42432	42435

chassis for withdrawable CB



complete chassis...		
type	3P	4P
for TC160N	42737	42738
for TC160L	42739	42740






to complete with :	
1 Compact TC160N/L plug-in FC/RC	(see above)

auxiliaries and accessories specific to the chassis

1 set of 2 switches	(1 NO + 1 NC) for plug-in and draw-out indication	41925
locking in draw-out position	with 1 key lock (supplied) Ronis 1351.500	41929
	Profalux KS5 B24 D4Z	41930
locking in draw-in position	with 1 key lock (supplied) Ronis 1351.500	41947
	Profalux KS5 B24 G4Z	41948
disconnectable auxiliary wire block	for "test position" (10 plugs per block), instead of standard auxiliary wire-block	41928


Vigicompact mccb's TC160N/L
Compact mccb's TC160N/L :
auxiliaries, accessories
connections, spare parts

Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5


Vigicompact TC160N REH*		complete breaker...	rating				... consisting of :
			3P 3t	4P 3t	4t	3t + N/2	
	fixed FC	≤ D63	■	■	■		= TC160N fixed FC + 1 Vigi module REH160 3P 42473 4P 42474
		D100	■	■	■	■	
		D160	■	■	■	■	
	fixed RC	≤ D63	■	■	■		= Vigicompact TC160N REH fixed FC + 1 set of rear connections per pole 42450
		D100	■	■	■	■	
		D160	■	■	■	■	
	plug-in FC RC	≤ D63	■	■	■		= Vigicompact TC160N REH fixed FC + 1 set of Vigi plugs per pole 42550 + 1 plug-in base FC/RC 3P 42458 4P 42459 + 1 set of short term. shields 3P 42960 4P 42961 + 1 3-terminal block moving part 42944 fixed part 42940
		D100	■	■	■	■	
		D160	■	■	■	■	
Vigicompact TC160L REH*		rating	3P 3t	4P 3t	4t	3t + N/2	
	fixed FC	≤ D63	■	■	■		= TC160L fixed FC, + 1 Vigi module REH160 3P 42473 4P 42474
		D100	■	■	■	■	
		D160	■	■	■	■	
	plug-in FC RC	≤ D63	■	■	■		= TC160L without release, plug-in without base, without MT module, with Vigi connections 3P 42671 4P 42672 (see opposite page) + type D release + 1 Vigi module REH160 3P 42473 4P 42474 + MT module 220/240 V AC 42951 (other voltages, at foot) + 1 plug-in base FC/RC 3P 42458 4P 42459 + 1 set of short term. shields 3P 42960 4P 42961 + 1 3-terminal block moving part 42944 fixed part 42940
		D100	■	■	■	■	
		D160	■	■	■	■	
Vigicompact TC160N/L REB*		rating	3P 3t	4P 3t	4t	3t + N/2	
	fixed FC	D25 to D160	■	■	■	■	= TC160N/L same versions as type REH + 1 Vigi module REB 160 3P 42477 4P 42478
	fixed RC (1)	D25 to D160	■	■	■	■	
	plug-in FC RC	D25 to D160	■	■	■	■	

electrical auxiliaries

auxiliary double-throw switches


	2 OF	42901
	1 OF + 1 SD	42903

auxiliary wire-block


moving part		
	long wires	3 term. 42944
		6 term. 42945
fixed part		
	for all types	3 term. 42940
		6 term. 42941
	pack of 24 female clips	42946

accessories

sealing accessories

	for release, adjustments, cover	42975
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circuit label holder

	pack of 10	42976
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locator

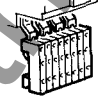
	for plug-in Compact TC160L	42963
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sealable terminal shields


	short term. shields	2P/3P 42960
		4P 42961
	long term. shields	2P/3P 42962
		4P 42963
	extension for L type	3P 42966
		4P 42967
	protective shield for plug-in base	2P/3P/4P 42968

connection (see p. 54)

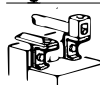
Polybloc terminal (for bare cables)

	6 cables S ≤ 10 ^{mm}	07100
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connectors for bare cables

	16 ^{mm} ≤ S ≤ 95 ^{mm}	per pole 42460
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angle terminals


	for fixed version (long terminal shield compulsory)	per pole 42462
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spare parts

	cover	2P/3P 42869
	neutral cap for 4-pole equipment	42890

separate elements

MT remote control module (interchangeable)

		
AC 50/60 Hz (V)	DC (V)	
48	42953	48/60 42953
110/127	42950	110/130 42954
220/240	42951	
380/415	42952	
220/240	42956	
load shedding device for tripping on undervoltage 220/240 V AC		42956

part numbers C250N/H/L

Compact mccb's C250N/H/L with type D trip unit

Auxiliaries and accessories page 73
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



		Complete breaker...					... consisting of :				
		rating	2P 2t	3P 3t	4P 3t	4t	3t + N/2				
	fixed FC	D200	43011	43015	43019	43023	43027	= C250N without release			
		D250	43012	43016	43020	43024	43028	+ type D release 2P 43001 3P 43002 4P 43003 (see at foot)			
	fixed RC	D200	43035	43039	43043	43047	43051	= C250N fixed FC			
		D250	43036	43040	43044	43048	43052	+ 1 set of rear connections per pole 43800			
	plug-in FC RC	D200	43083	43087	43091	43095	43099	= C250N fixed FC			
		D250	43084	43088	43092	43096	43100	+ 1 set of plugs per pole 43802 + 1 plug-in base FC/RC 2P 43809 3P 43810 4P 43811 + 1 set of short term. shields 2P/3P 43829 4P 43830			
	fixed FC	D200	43112	43116	43120	43124	= C250 without release				
		D250	43113	43117	43121	43125	+ type D release 3P 43104 4P 43105 (see at foot)				
	fixed RC	D200	43132	43136	43140	43144	= C250H fixed FC				
		D250	43133	43137	43141	43145	+ 1 set of rear connections per pole 43800				
	plug-in FC RC	D200	43172	43176	43180	43184	= C250H fixed FC				
		D250	43173	43177	43181	43185	+ 1 set of plugs per pole 43802 + 1 plug-in base FC/RC 3P 43810 4P 43811 + 1 set of short term. shields 3P 43829 4P 43830				
	fixed FC	D200	43196	43200	43204	43208	= C250L without release, fixed FC				
		D250	43197	43201	43205	43209	+ type D release 3P 43188 4P 43189 (see at foot)				
	fixed RC	D200	43220	43224	43228	43232	= C250L without release, fixed RC				
		D250	43221	43225	43229	43233	+ type D release 3P 43212 4P 43213 (see at foot)				
	plug-in FC RC	D200	43244	43248	43252	43256	= C250L without release, plug-in without base				
		D250	43245	43249	43253	43257	+ type D release 3P 43236 4P 43237 (see at foot) + 1 plug-in base FC/RC 3P 43810 4P 43811				
	Standard type D release					Low magnetic setting type G release					
	rating		2P	3P	4P	rating		3P	4P		
			2t	3t	3t	4t	3t N/2	3t	4t		
	D200		43261	43264	43267	43270	43273	G200	43277	43280	
	D250		43262	43265	43268	43271	43274	G250	43278	43281	
	Selective type SA release for C250L only					Selective type SB release for C250L only					
	rating		3P	4P	rating		3P	4P			
			3t	4t			3t	4t			
	SA125		43284	43289	SB160		43297	43301			
	SA160		43285	43290	SB200		43298	43302			
	SA200		43286	43291	SB250		43299	43303			
	SA250		43287	43292							
Type MA release											
rating		3P	4P								
		3t	4t								
MA250		43308	43311								
	complete chassis...					to complete with :					
	type		3P	4P	rating		3P	4P			
			3t	3t	4t	3t + N/2	3t	4t			
	plug-in FC RC	for C250N/H	43786	43787	43787	43787	1 Compact C250N/H/L, plug-in FC/RC (see above)				
for C250L		43788	43789	43789	43789	1 Compact C250N/H/L, plug-in FC/RC (see above and p. 73)					
plug-in FC RC	for C250N/H with motor mechanism	43790	43791	43791	43791						
	for C250L with motor mechanism	43792	43793	43793	43793						

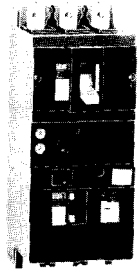
auxiliaries and accessories specific to the chassis		1 set of 2 switches		(1 NO + 1 NC) for plug-in and draw-out indication		41925
	locking in draw-out position	with 1 key lock (supplied)		Ronis 1351.500	41929	
				Profalux KS5 B24 D4Z	41930	
	locking in draw-in position	with 1 key lock (supplied)		Ronis 1351.500	41947	
				Profalux KS5 B24 G4Z	41948	

**Vigicompact mccb's C250N/H/L
Compact mccb's C250N/H/L :
with Vigi module REH or REB**

Auxiliaries and accessories page 73
Characteristics page 17
Dimensions, tripping curves page 113
Presentation page 5



Vigicompact C250N REH*



		complete breaker...				... consisting of :	
		rating	3P 3t	4P 3t	4t	3t N/2	
fixed FC		D200	43348	43351	43354	43357	= C250N fixed FC + 1 Vigi module REH250
		D250	43349	43352	43355	43358	
fixed RC		D200 to D250	■	■	■	■	= C250N REH fixed FC + 1 set of rear connections
plug-in FC RC		D200 to D250	■	■	■	■	= C250N REH fixed FC + 1 set of Vigi plugs + 1 plug-in base FC/RC + 1 set of short term. shields

Vigicompact C250H REH*

		rating	3P 3t	4P 3t	4t	3t + N/2	
fixed FC		D200 to D250	■	■	■	■	= C250H fixed FC + 1 Vigi module REH250
fixed RC		D200 to D250	■	■	■	■	= C250H REH fixed FC + 1 set of rear connections
plug-in FC RC		D200 to D250	■	■	■	■	= C250H REH fixed FC + 1 set of Vigi plugs + 1 plug-in base FC/RC + 1 set of short term. shields

Vigicompact C250L REH*

		rating	3P 3t	4P 3t	4t	3t + N/2	
fixed FC		D200	43426	43429	43432	43435	= C250L fixed FC + 1 Vigi module REH250
		D250	43427	43430	43433	43436	
plug-in FC RC		D200 to D250	■	■	■	■	= C250L without release, plug-in without base, with Vigi connections + type D release + 1 Vigi module REH250 + 1 plug-in base FC/RC + 1 set of short term. shields

**Compact C250N/H/L
with a Vigirex RCD and
a separated toroid**







Compact fixed or plug-in (see page before)	Voltage release (see page electrical auxiliaries)	Vigirex RCD ⊕	toroidal sensor ⊕	shielded wire ⊕ (2 conductors)
RH50	220/240V	50040	PNØ50	50106
	220/240V inherent safety model	50041	INØ80	50107
RH53A	220/240V	50082		l = 100 m 50136
	380/415V	50084		

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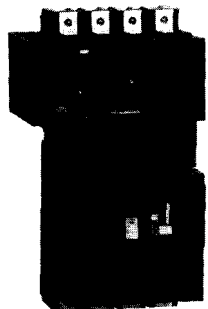
part numbers
C250N/H/L (continued)

Visucompact mccb's C250N
Compact mccb's C250N

Auxiliaries and accessories, opposite page
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5

		complete breaker...				...consisting of:	
		rating	3P 3t	4P 3t	4t	3t + N/2	
Visucompact C250N*	 fixed FC	D200 to D250	■	■	■	■	= C250N fixed FC + 1 Visu module V250 3P 43329 4P 43330
	 fixed RC	D200 to D250	■	■	■	■	= Visucompact C250N fixed FC + 1 set of rear connections per pole 43800
earth leakage Visucompact C250N REH*	 fixed FC	D200 to D250	■	■	■	■	= Visucompact C250N fixed FC/RC + 1 Vigi module REH250 3P 43340 4P 43341
	 fixed RC	D200 to D250	■	■	■	■	
auxiliaries and accessories specific to the Visucompact	auxiliary double-throw switch		OF standard or CAM early break depending on mounting				42906
	earthing switch for neutral in open position (compulsory if the transformer neutral is earthed on the load side of the Visucompact)						43332
	locking of the Visu module in open position		by 3 padlock (not supplied)				built-in
			by Ronis key lock 1351.500 (supplied)				41940
	terminal shields for Visucompact or earth leakage Visucompact		by Profalux key lock KS5 B24 D4Z (supplied)				42888
long terminal shields for FC (1 set)			3P 43838	4P 43832			
		short terminal shields for RC (1 set)		3P 43839	4P 43830		
connection		same as fixed Compact				(p. 73)	
Compact NI type (load break switches)						page 104	
automatic and manual source changeover Compact						page 94	

Visucompact C250N*



earth leakage Visucompact C250N REH*

auxiliaries and accessories specific to the Visucompact

Compact NI type (load break switches)

automatic and manual source changeover Compact

page 104

page 94

electrical auxiliaries

auxiliary double-throw switches		
	2 OF	42901
	1 OF + 1 SD	42902
	1 CAM (for rotary handle or Visu module)	42905

voltage release (for remote tripping)		
	MX (shunt trip)	
	AC 50/60 Hz or DC (V)	
	24	42910
	48/60	42911
	110/130	42912
	220/300	42913
	380/480	42914

MN (undervoltage release)		
	AC 50 Hz (V)	DC (V)
	48 $\text{\textcircled{Q}}$	24
	110/130	48
	220/240	110/130
	380/415	250
	525	
	AC 60 Hz (V)	
	110/127	
	220/240	
	440	

MN (with time delay relay)		
220 V AC 50/60 Hz		
	= MN 110/130 V DC	42925
	+ time delay relay	
	250/700 ms	42930

auxiliary wire block (see quantity p. 44)		
	moving part	
	short wires	3 term. 42942
	for types N/H	6 term. 42943
	long wires	3 term. 42944
	for type L	6 term. 42945
	fixed part	
	for all types	3 term. 42940
		6 term. 42941
	pack of 24 female clips	42946

adaptable motor mechanism

type T (for remote control)		
	AC 50/60 HZ (V)	DC (V)
	120/127 ⁽¹⁾	24 ⁽¹⁾
	220/240 ⁽¹⁾	48/60 ⁽¹⁾
	380/415 ⁽²⁾	110/125 ⁽¹⁾
	440/480 ⁽²⁾	220/250 ⁽¹⁾

type TS (for synchronizing)		
	AC 50/60 HZ (V)	DC (V)
	110/127 ⁽¹⁾	110/125 ⁽¹⁾
	220/240 ⁽¹⁾	

accessories for motor mechanism		
	SDE alarm switch	44906
	Sealable cover	42974
	locking of the motor mech. ⁽³⁾	44876
	by 1 key lock (not supplied)	
	Ronis 1351.500 or Profalux KS5 B24 D4Z	

accessories

direct rotary handle		
	with black toggle	43820
	red toggle	42891
	watertight escutcheon	44940

	MCC type	43824
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extended rotary handle		
	with door locking	
	front door mounting	
	short shaft	43821
	(=43820+42882)	
	long shaft	43835
	(=43820+42884)	

rear door mounting		
	short shaft	43846 $\text{\textcircled{Q}}$
	(=43820+42889)	
	long shaft	43847 $\text{\textcircled{Q}}$
	(=43820+42897)	

without door locking		
	front door mounting	
	short shaft	43822
	(=43820+45853)	

accessories for converting direct rotary handle to extended handle

with door locking		
	front door mounting	
	short shaft	42882
	long shaft	42884
	rear door mounting	
	short shaft	42889
	long shaft	42897

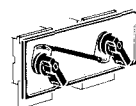
without door locking		
	short shaft	45853

	shaft bracket	
	for short shaft	42868
	(always included on rotary handles with long shaft)	

locking by padlocks or key lock		
	of the rotary handle	
	(circuit-breaker in OFF position)	
	by 3 padlocks	
	(not supplied)	built-in
	1 Ronis key lock 1351.500	41940
	1 Profalux key lock KS5 B24 D4Z	42888

	of the toggle	
	(in OFF position)	
	by 3 padlocks (not supplied)	44936

mechanical interlocking		
(for breakers with rotary handle)		
	mechanical device	44826



key locks interlocking		
(for breakers with rotary handle)		
	1 set of 2 Ronis 1351.500 key locks (1 single key)	41950
	1 set of 2 Profalux KS5 B24 D4Z key locks (1 single key)	42878

sealing accessories		
	for release, adjustment, cover	42975

	circuit label holder	
	pack of 10	42976

cut-out grommet for door		
	Compact fixed or plug-in	42977
	without motor mechanism	43745 $\text{\textcircled{Q}}$

tight bellows		
	for toggle (IP43)	42896

locator		
	for plug-in contact	43816

sealable terminal shields		
	short term. shields	2P/3P 43829
		4P 43830
	long term. shields	2P/3P 43831
		4P 43832
	extension for L type	3P 43833
		4P 43834
	protective shield for plug-in base	2P/3P/4P 43836
	phase separators $\text{\textcircled{Q}}$	2P/3P 43840

connection (see p. 54)

connectors for bare cables		
	16 ⁻ \leq S \leq 185 ⁻ (Alu)	per pole 43813
	16 ⁻ \leq S \leq 185 ⁻	per pole 43828

angle terminals		
	for fixed FC (long terminal shields compulsory)	per pole 43815

spare parts		
	cover	2P/3P 43940
		4P 43941

	neutral pole cap for 4-pole equipment with rotary handle	43947
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	toggle	43945
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	block toggle for : rotary handle	42875
	Visu module V250	44846

(1) Direct supply motor mechanism.
(2) Motor mechanism supplied through and additional resistor.
■ T400/630 380/415 V 43877

part numbers C401N/H/L

Compact mccb's C401N/H/L with D type trip unit

Auxiliaries and accessories page 79
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



		complete breaker...					...consisting of:			
		rating	2P 2t	3P 3t	4P 3t	4t	3t + N/2			
	fixed FC	D321	44663	44665	44667	44669	44671	= C401N without release		
		D401	44664	44666	44668	44670	44672	+ type D release		
								2P 44660 3P 44661 4P 44662 (here under)		
	fixed RC	D321	44693	44695	44697	44699	44701	= C401N fixed FC		
		D401	44694	44696	44698	44700	44702	+ 1 set of rear connections		
								per pole 44800		
	plug-in FC	D321	44719	44721	44723	44725	44727	= C401N fixed FC		
		D401	44720	44722	44724	44726	44728	+ 1 set of plugs (1)		
								+ 1 plug-in base		
								per pole 44802		
								+ 1 set of short term. shields		
								2P 44809 3P 44810 4P 44811 2P/3P 44829 4P 44830		
	fixed FC	D321	44675	44677	44679	44681		= C401H without release		
		D401	44676	44678	44680	44682		+ type D release		
								3P 44673 4P 44674 (here under)		
	fixed RC	D321	44703	44705	44707	44709		= C401H fixed FC		
		D401	44704	44706	44708	44710		+ 1 set of rear connections		
								per pole 44800		
	plug-in FC	D321	44729	44731	44733	44735		= C401H fixed FC		
		D401	44730	44732	44734	44736		+ 1 set of plugs (1)		
								+ 1 plug-in base FC/RC		
								per pole 44802		
								+ 1 set of short term. shields		
								3P 44810 4P 44811 3P 44829 4P 44830		
	fixed FC	D321	44685	44687	44689	44691		= C401L without release, with spacing supports		
		D401	44686	44688	44690	44692		+ type release		
								3P 44683 4P 44684 (here under)		
	fixed RC	D321	44711	44713	44715	44717		= C401L fixed FC, with spacing supports		
		D401	44712	44714	44716	44718		+ 1 set of connections		
								+ 1 set of connections for supports		
								per pole 44839		
								per pole 44800		
	plug-in FC	D321	44737	44739	44741	44743		= C401L fixed FC with spacing supports		
		D401	44738	44740	44742	44744		+ 1 set of connections for supports		
								+ 1 set of plugs (1)		
								per pole 44839		
								+ 1 plug-in base FC/RC		
								per pole 44802		
								+ 1 set of short term. shields		
								3P 44810 4P 44811 3P 44829 4P 44830		
	Standard type D release					Type P release :				
	rating	2P	3P	4P		Trip unit for DC current (no thermal) with adjustable magnetics :				
			3t	3t	4t	3t + N/2	P1 : 800 to 1600A P3 : 2000 to 4000A			
	D321	44771	44773	44775	44777	44779	P2 : 1200 to 2500A			
	D401	44772	44774	44776	44778	44780	If U ≤ 250 V CC, use a 3P 3t Compact with 2 poles in series on the same polarity.			
							If 250 < U ≤ 500 V DC, use a 4P 4t with 2 poles in series on each polarity.			
	Type MA release					rating				
	rating		3P	4P			3t	3t	4t	3t + N/2
		MA321	44781	44782						
							P1	44783	44784	
							P2	44785	44786	
							P3	44787	44788	
	complete chassis...					to complete with :				
	type		3P	4P						
			3t	3t	4t	3t + N/2				
	plug-in FC	for C401N/H	44892	44893	44893	44893	1 Compact C401N/H/L, plug-in FC/RC (see above)			
		for C401L	44894	44895	44895	44895				
		C401N/H with motor mechanism	44896	44897	44897	44897	1 Compact C401N/H/L, plug-in FC/RC with motor mechanism (see above and p. 79)			
		C401L with motor mechanism	44898	44899	44899	44899				
auxiliaries and accessories specific to the chassis	1 set of 2 switches					(1 NO + 1 NC) for plug-in and draw-out indication				
	locking in draw-out position					with 1 key lock (supplied) Ronis 1351.500				
						Profalux KS5 B24 D4Z				
						41930				
	locking in draw-in position					with 1 key lock (supplied) Ronis 1351.A				
						Profalux KS5 B24 G4Z				
					41947					
					41948					
watertight escutcheon					for operation through the door					
					44904					
disconnectable auxiliary wire block					for "test position" (10 plugs per block), instead of standard auxiliary wire-block					
					41928					

Characteristics: p. 28
 Description: p. 8

auxiliaries and accessories specific to the chassis

1 set of 2 switches (1 NO + 1 NC) for plug-in and draw-out indication 41925
 locking in draw-out position with 1 key lock (supplied) Ronis 1351.500 41929
 Profalux KS5 B24 D4Z 41930
 locking in draw-in position with 1 key lock (supplied) Ronis 1351.A 41947
 Profalux KS5 B24 G4Z 41948
 watertight escutcheon for operation through the door 44904
 disconnectable auxiliary wire block for "test position" (10 plugs per block), instead of standard auxiliary wire-block 41928



Vigicompact mccb's C401N/H/L Compact mccb's C401N/H/L with Vigirex RCD

Auxiliaries and accessories page 79
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5

		complete breaker...				...consisting of:		
		rating	3P 3t	4P 3t	4t	3t + N/2		
	fixed FC	D321	44745	44747	44749	44751	= C401N fixed FC + 1 Vigi module REM401/400/630	
		D401	44746	44748	44750	44752		3P 44430 4P 44431
	fixed RC	D321 to D401	■	■	■	■	= C401N REM fixed FC + 1 set of rear connections	per pole 44800
		plug-in FC RC	D321 to D401	■	■	■		■

		rating	3P 3t	4P 3t	4t	3t + N/2		
	fixed FC	D321	44753	44756	44759	44761	= C401H fixed FC + 1 Vigi module REM401/400/630	
		D401	44754	44757	44760	44762		3P 44430 4P 44431
	fixed RC	D321 to D401	■	■	■	■	= C401H REM fixed FC + 1 set of rear connections	per pole 44800
		plug-in FC RC	D321 to D401	■	■	■		■

		rating	3P 3t	4P 3t	4t	3t + N/2		
	fixed FC	D321	44763	44765	44767	44769	= C401L fixed FC with spacing supports + 1 Vigi module REM401/400/630	
		D401	44764	44766	44768	44770		3P 44430 4P 44431
	fixed RC	D321 to D401	■	■	■	■	= C401L REM fixed FC with spacing supports + 1 set of connections for supports + 1 set of rear connections	per pole 44839 per pole 44800
		plug-in FC RC	D321 to D401	■	■	■		■

Compact C401N/H/L with a Vigirex RCD and a separated toroid



Compact fixed or plug-in (see previous page)

voltage release (see page electrical auxiliaries)

Vigirex RCD ⊕

RH50	220/240V	50040
	220/240V	50041
	inherent safety model	
RH53A	220/240V	50082
	380/415V	50084

toroidal sensors ⊕

INØ80 plug-in	50107
MNØ120	50108

shielded wire ⊕
(2 conductors)





l = 100 m	50136
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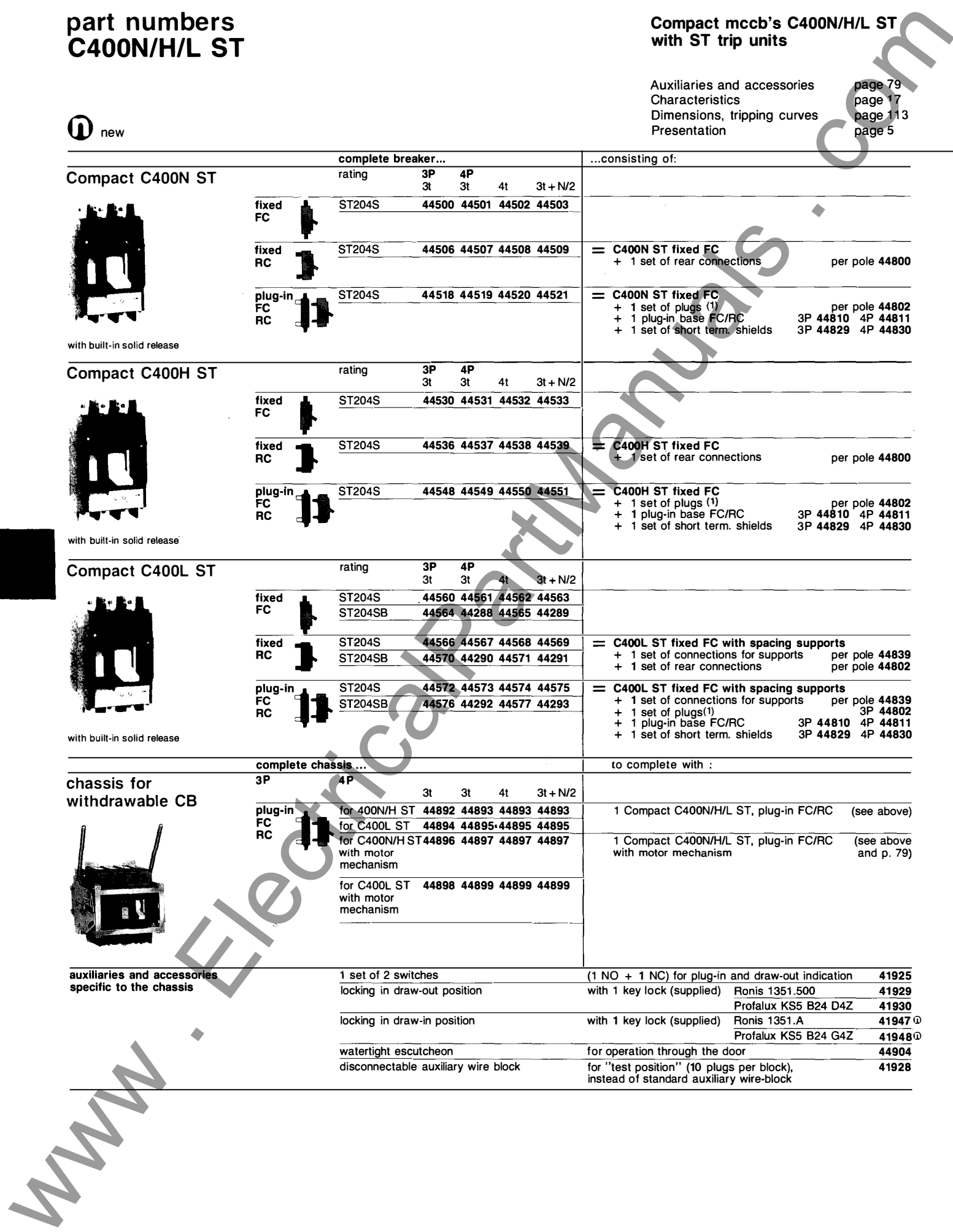
part numbers C400N/H/L ST

Compact mccb's C400N/H/L ST with ST trip units

Auxiliaries and accessories page 79
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



		complete breaker...				...consisting of:		
		rating	3P 3t	4P 3t	4t	3t + N/2		
 with built-in solid release	fixed FC	ST204S	44500	44501	44502	44503		
	fixed RC	ST204S	44506	44507	44508	44509	= C400N ST fixed FC + 1 set of rear connections per pole 44800	
	plug-in FC RC	ST204S	44518	44519	44520	44521	= C400N ST fixed FC + 1 set of plugs (1) per pole 44802 + 1 plug-in base FC/RC 3P 44810 4P 44811 + 1 set of short term. shields 3P 44829 4P 44830	
 with built-in solid release	fixed FC	ST204S	44530	44531	44532	44533		
	fixed RC	ST204S	44536	44537	44538	44539	= C400H ST fixed FC + 1 set of rear connections per pole 44800	
	plug-in FC RC	ST204S	44548	44549	44550	44551	= C400H ST fixed FC + 1 set of plugs (1) per pole 44802 + 1 plug-in base FC/RC 3P 44810 4P 44811 + 1 set of short term. shields 3P 44829 4P 44830	
 with built-in solid release	fixed FC	ST204S ST204SB	44560 44564	44561 44288	44562 44565	44563 44289		
	fixed RC	ST204S ST204SB	44566 44570	44567 44290	44568 44571	44569 44291	= C400L ST fixed FC with spacing supports + 1 set of connections for supports per pole 44839 + 1 set of rear connections per pole 44802	
	plug-in FC RC	ST204S ST204SB	44572 44576	44573 44292	44574 44577	44575 44293	= C400L ST fixed FC with spacing supports + 1 set of connections for supports per pole 44839 + 1 set of plugs(1) 3P 44802 + 1 plug-in base FC/RC 3P 44810 4P 44811 + 1 set of short term. shields 3P 44829 4P 44830	
chassis for withdrawable CB 	complete chassis ...		3P	4P			to complete with :	
				3t	3t	4t	3t + N/2	
	plug-in FC RC	for 400N/H ST	44892	44893	44893	44893	44893	1 Compact C400N/H/L ST, plug-in FC/RC (see above)
		for C400L ST	44894	44895	44895	44895	44895	
		for C400N/H ST	44896	44897	44897	44897	1 Compact C400N/H/L ST, plug-in FC/RC (see above with motor mechanism and p. 79)	
		for C400L ST	44898	44899	44899	44899		
auxiliaries and accessories specific to the chassis		1 set of 2 switches					(1 NO + 1 NC) for plug-in and draw-out indication 41925	
		locking in draw-out position					with 1 key lock (supplied) Ronis 1351.500 41929 Profalux KS5 B24 D4Z 41930	
		locking in draw-in position					with 1 key lock (supplied) Ronis 1351.A 41947 Profalux KS5 B24 G4Z 41948	
		watertight escutcheon					for operation through the door 44904	
		disconnectable auxiliary wire block					for "test position" (10 plugs per block), instead of standard auxiliary wire-block 41928	



**Vigicompact mccb's C400N/H/L ST
Compact mccb's C400N/H/L ST
with Vigirex RCD**

Characteristics page 17
Dimensions, tripping curves page 113
Presentation page 5



complete breaker...					...consisting of:				
	rating	3P 3t	4P 3t	4t	3t + N/2				
Vigicompact C400N ST REM*	fixed FC	ST204S	44317	44318	44319	44320	= C400N ST fixed FC + 1 Vigi module REM401/400/630	3P 44430	4P 44431
	fixed RC	ST204S	■	■	■	■	= C400N ST REM fixed FC + 1 set of rear connections	per pole 44800	
	plug-in FC RC	ST204S	■	■	■	■	= C400N ST REM fixed FC + 1 set of plugs (1) + 1 plug-in base FC/RC + 1 set of short term. shields	3P 44817	4P 44818 3P 44829 4P 44830
Vigicompact C400H ST REM*	fixed FC	ST204S	44321	44322	44323	44324	= C400H ST fixed FC + 1 Vigi module REM401/400/630	3P 44430	4P 44431
	fixed RC	ST204S	■	■	■	■	= C400H ST REM fixed FC + 1 set of rear connections	per pole 44800	
	plug-in FC RC	ST204S	■	■	■	■	= C400H ST REM fixed FC + 1 set of plugs (1) + 1 plug-in base FC/RC + 1 set of short term. shields	3P 44817	4P 44818 3P 44829 4P 44830
Vigicompact C400L ST REM*	fixed FC	ST204S ST204SB	44325	44326	44327	44328	= C400L ST fixed FC with spacing supports + 1 Vigi module REM401/400/630	3P 44430	4P 44431
	fixed RC	ST204S ST204SB	■	■	■	■	= C400L ST REM fixed FC with spacing supports + 1 set of connections for supports + 1 set of rear connections	per pole 44839	per pole 44800
	plug-in FC RC	ST204S ST204SB	■	■	■	■	= C400L ST REM fixed FC with spacing supports + 1 set of connections for supports + 1 set of plugs(1) + 1 plug-in base FC/RC + 1 set of short term. shields	per pole 44839 per pole 44802	3P 44817 4P 44818 3P 44829 4P 44830

**Compact C400N/H/L ST
with a Vigirex RCD and
a separated toroid**



Compact fixed or plug-in (see previous page)

voltage release (see page electrical auxiliaries)

Vigirex RCD ⊕

RH50	220/240V	50040
	220/240V	50041
	inherent safety model	
RH53A	220/240V	50082
	380/415V	50084

toroidal sensors ⊕

INØ80 plug-in	50107
MNØ120	50108

shielded wire ⊕
(2 conductors)

l = 100 m	50136
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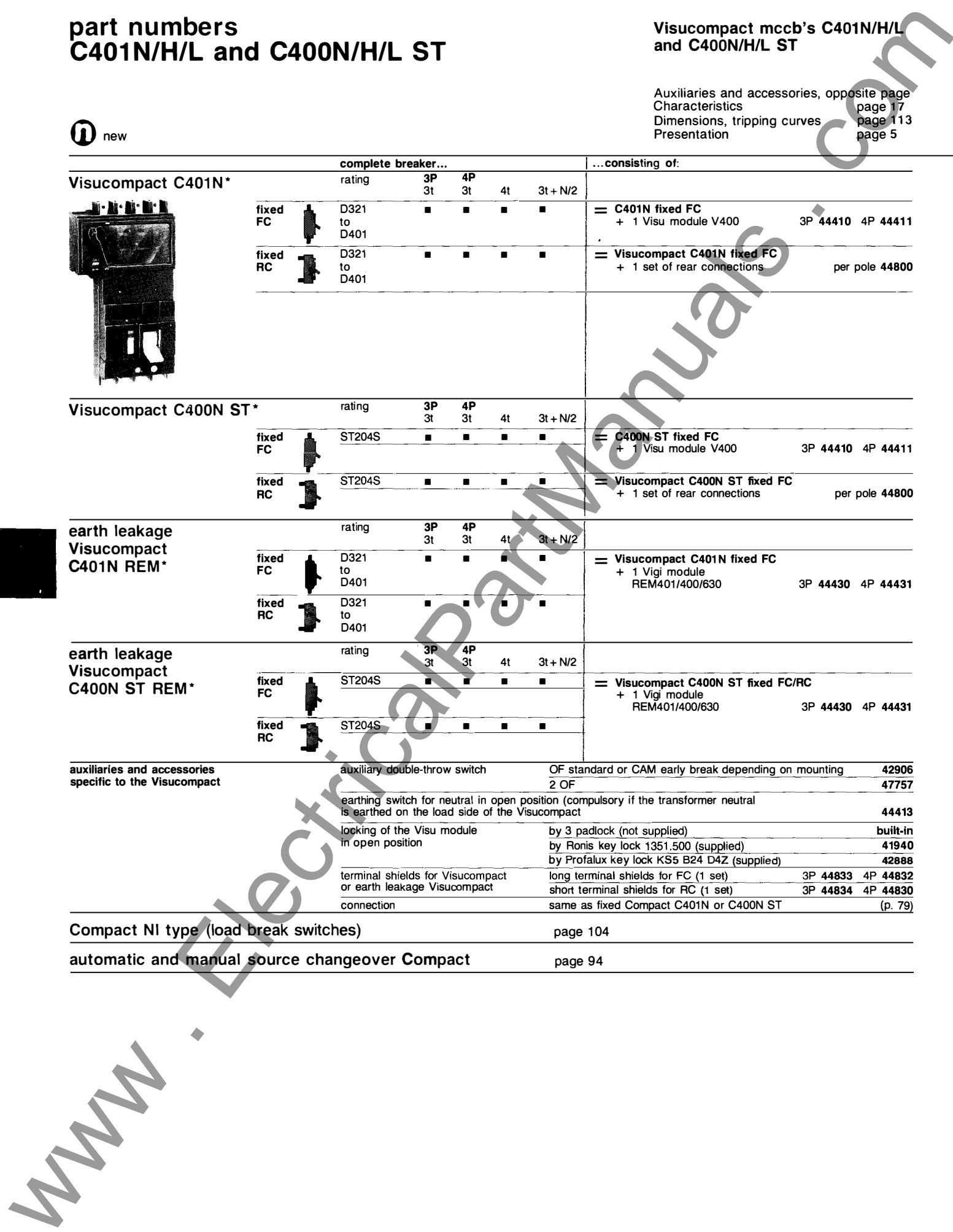
part numbers C401N/H/L and C400N/H/L ST

Visucompact mccb's C401N/H/L and C400N/H/L ST

Auxiliaries and accessories, opposite page
Characteristics page 17
Dimensions, tripping curves page 113
Presentation page 5




		complete breaker...				...consisting of:	
		rating	3P 3t	4P 3t	4t	3t + N/2	
Visucompact C401N*		D321 to D401	■	■	■	■	= C401N fixed FC + 1 Visu module V400 3P 44410 4P 44411
		D321 to D401	■	■	■	■	= Visucompact C401N fixed FC + 1 set of rear connections per pole 44800
Visucompact C400N ST*		ST204S	■	■	■	■	= C400N ST fixed FC + 1 Visu module V400 3P 44410 4P 44411
		ST204S	■	■	■	■	= Visucompact C400N ST fixed FC + 1 set of rear connections per pole 44800
earth leakage Visucompact C401N REM*		D321 to D401	■	■	■	■	= Visucompact C401N fixed FC + 1 Vigi module REM401/400/630 3P 44430 4P 44431
		D321 to D401	■	■	■	■	
earth leakage Visucompact C400N ST REM*		ST204S	■	■	■	■	= Visucompact C400N ST fixed FC/RC + 1 Vigi module REM401/400/630 3P 44430 4P 44431
		ST204S	■	■	■	■	
auxiliaries and accessories specific to the Visucompact	auxiliary double-throw switch		OF standard or CAM early break depending on mounting			42906	
			2 OF			47757	
	earthing switch for neutral in open position (compulsory if the transformer neutral is earthed on the load side of the Visucompact)					44413	
	locking of the Visucompact in open position		by 3 padlock (not supplied)			built-in	
			by Ronis key lock 1351.500 (supplied)			41940	
		by Profalux key lock KS5 B24 D4Z (supplied)			42888		
terminal shields for Visucompact or earth leakage Visucompact		long terminal shields for FC (1 set)		3P 44833	4P 44832		
		short terminal shields for RC (1 set)		3P 44834	4P 44830		
connection		same as fixed Compact C401N or C400N ST			(p. 79)		
Compact NI type (load break switches)				page 104			
automatic and manual source changeover Compact				page 94			





electrical auxiliaries

auxiliary double-throw switches

	1 OF + 1 SD	44900
	3 OF + 1 SD	44901
	1 CAM (for rotary handle or Visu module)	44827


voltage release (for remote tripping)

	MX (shunt trip) AC 50/60 Hz or DC (V)	
	24	44910
	48/60	44911
	110/130	44912
	220/300	44913
	380/480	44914

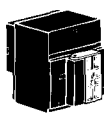
	MN (undervoltage release) AC 50 Hz DC (V) (V)	
	110/130	44920
	220/240	44921
	380/415	44922
	24	44923
	48	44924
	110/130	44925
	250	44926

AC 60 Hz (V)

110/127	44648
220/240	44928
440	44649

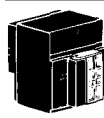
	MN (with time delay relay) 220 V AC 50/60 Hz	
	= MN 110/130 V DC	44925
	+ time delay relay	
	250/700 ms	+ 44930

auxiliary wire block (see quantity p. 44)

	moving part	
	short wires	3 term. 42942
	for types N/H	6 term. 42943
	long wires	3 term. 42944
	for type L	6 term. 42945
	fixed part	
	for all types	3 term. 42940
		6 term. 42941
	pack of 24 female clips	42946

adaptable motor mechanism

type T (for remote control)

	AC 50/60 HZ (V)	DC (V)	
	110/127(1)44975	24(1)	44970
	220/240(1)44976	48/60(1)	44971
	380/415(2)44977	110/125(1)44972	
	440/480(2)44978	220/250(1)44973	


type TS (for synchronizing)⁽³⁾

AC 50/60 HZ (V)	DC (V)	
110/127(1)44984	110/125(1)44982	
220/240(1)44985		


accessories for motor mechanism

SDE alarm switch	44906
Sealable cover	42974
locking of the motor mech. ⁽³⁾ by 1 key lock (not supplied)	44876
Ronis 1351.500 or Profalux KS5 B24 D4Z	

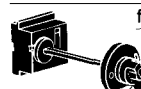
accessories

	direct rotary handle	
	with black toggle	44820
	red toggle	44847
	watertight escutcheon	44940

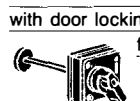
extended rotary handle

	with door locking	
	front door mounting	
	short shaft	44821
	(= 44820 + 42882)	
	long shaft	44835
	(= 44820 + 42884)	
	rear door mounting	
	- short shaft	44837
	(= 44820 + 42889)	
	long shaft	44840
	(= 44820 + 42897)	

without door locking

	front door mounting	
	short shaft	44828
	(= 44820 + 45853)	


accessories for converting direct rotary handle to extended handle

	with door locking	
	front door mounting	
	short shaft	42882
	long shaft	42884
	rear door mounting	
	short shaft	42889
	long shaft	42897

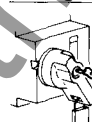
without door locking

	short shaft	45853
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
shaft bracket

	for short shaft (always included on rotary handles with long shaft)	42868
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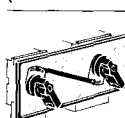
locking by padlocks or key lock

	of the rotary handle (circuit-breaker in OFF position)	
	by 3 padlocks (not supplied)	built-in
	1 Ronis key lock 1351.500	41940
	1 Profalux key lock KS5 B24 D4Z	42888


of the toggle (in OFF position)

	by 3 padlocks (not supplied)	44936
---	------------------------------	-------


mechanical interlocking (for breakers with rotary handle)

	mechanical device	44826
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key locks interlocking (for breakers with rotary handle)

	1 set of 2 Ronis 1351.500 key locks (1 single key)	41950
	1 set of 2 Profalux KS5 B24 D4Z key locks (1 single key)	42878


sealing accessories

	for release, adjustment, cover	44937
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cut-out grommet for door

	Compact fixed or plug-in	
	without motor mechanism	44938
	with motor mechanism	43745


tight bellows

	for toggle (IP43)	44965
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locator

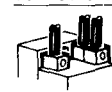
	for plug-in contact	43816
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sealable terminal shields

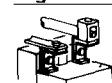
	short term. shields	2P/3P 44829
	4P	44830
	long term. shields	2P/3P 44831
	4P	44832
	extension for L type	3P 43833
	4P	43834
	protective shield	2P/3P/4P 44836
	for plug-in base	

connection (see p. 54)


connectors for bare cables

	single connector per pole	44813
	for 1 cable 70° ≤ S ≤ 300°	
	double connector per pole	44814
	for 2 cables 70° ≤ S ≤ 240°	


angle terminals

	for fixed FC version	per pole 44815
	(long terminal shields compulsory)	


spreader

	for fixed FC or plug-in FC/RC version	3P 44841
		4P 44842

spare parts

	cover	2P/3P/4P 44960
		4P 43941

	toggle	44964
---	--------	-------

	black toggle for : rotary handle Visu module V400/630	44846
		45858

(1) Direct supply motor mechanism.
(2) Motor mechanism supplied through an additional resistor:
T400/630 380/415 V 44977.

part numbers C630N/H/L

Compact mccb's C630N/H/L with type D trip unit

Auxiliaries and accessories page 85
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



		complete breaker...				...consisting of:	
		rating	3P 3t	4P 3t 4t	3t + N/2		
Compact C630N		D500	45016	45020 45024	45028	= C630N without release	3P 45002 4P 45003 (here under)
		D630	45017	45021 45025	45029		
		D500	45036	45040 45044	45048	= C630N fixed FC	per pole 44800
		D630	45037	45041 45045	45049		
		D500	45076	45080 45084	45088	= C630N fixed FC	per pole 44802
		D630	45077	45081 45085	45089		
						+ 1 set of plugs (1)	
						+ 1 plug-in base FC/RC	
						+ 1 set of short term. shields	

		rating					
		3P 3t	4P 3t 4t	3t + N/2			
Compact C630H		D500	45116	45120 45124	45128	= C630H without release	3P 45102 4P 45103 (here under)
		D630	45117	45121 45125	45129		
		D500	45136	45140 45144	45148	= C630H fixed FC	per pole 44800
		D630	45137	45141 45145	45149		
		D500	45176	45180 45184	45188	= C630H fixed FC	per pole 44802
		D630	45177	45181 45185	45189		
						+ 1 set of plugs (1)	
						+ 1 plug-in base FC/RC	
						+ 1 set of short term. shield	

		rating					
		3P 3t	4P 3t 4t	3t + N/2			
Compact C630L		D500	45216	45220 45224	45228	= C630L without release, with spacing supports	3P 45202 4P 45203 (here under)
		D630	45217	45221 45225	45229		
		D500	45236	45240 45244	45248	= C630L fixed FC, with spacing supports	per pole 44839
		D630	45237	45241 45245	45249		
		D500	45276	45280 45284	45288	= C630L fixed FC with spacing support	per pole 44839
		D630	45277	45281 45285	45289		
						+ 1 set of connections for support	
						+ 1 set of rear connections	
						+ 1 set of plugs (1)	
						+ 1 plug-in base FC/RC	
						+ 1 set of short term. shields	

trip units		Standard type D release				Type P release :	
		rating	3P 3t	4P 3t 4t	3t + N/2	Trip unit for DC current (no thermal) with adjustable magnetics :	
		D500	45315	45319 45323	45327	P1 : 800 to 1600A	
		D630	45316	45320 45324	45328	P2 : 1200 to 2500A	
						P3 : 2000 to 4000A	
						P4 : 3200 to 6300A	
						If U ≤ 250 V CC, use a 3P 3t Compact with 2 poles in series on the same polarity.	
						If 250 < U ≤ 500 V DC, use a 4P 3t with 2 poles in series on each polarity.	
						rating	
			2P	3P	4P		
			2t	3t	3t 4t	3t + N/2	
			MA500	45360	45364		
						P1	44783 44784
						P2	44785 44786
						P3	44787 44788
						P4	44789 44790

		complete chassis ...				to complete with :	
		type	3P 3t	4P 3t 4t	3t + N/2		
chassis for withdrawable CB		plug-in FC	for C630N/H	44892 44893 44893	44893	1 Compact C630N/H/L, plug-in FC/RC	(see above)
		RC	for C630L	44894 44895 44895	44895		
			C630N/H with motor mechanism	44896 44897 44897	44897		
			C630L with motor mechanism	44898 44899 44899	44899		

auxiliaries and accessories specific to the chassis	1 set of 2 switches	(1 NO + 1 NC) for plug-in and draw-out indication	41925
	locking in draw-out position	with 1 key lock (supplied)	Ronis 1351.500 41929
		Profalux KS5 B24 D4Z	41930
	locking in draw-in position	with 1 key lock (supplied)	Ronis 1351.A 41947
		Profalux KS5 B24 G4Z	41948
	watertight escutcheon	for operation through the door	44904
	disconnectable auxiliary wire block	for "test position" (10 plugs per block), instead of standard auxiliary wire-block	41928



Vigicompact mccb's C630N/H/L Compact mccb's C630N/H/L with Vigirex RCD

Auxiliaries and accessories page 85
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5

complete breaker...					...consisting of:				
	rating	3P 3t	4P 3t	4t	3t + N/2				
Vigicompact C630N REM*	fixed FC	D500 D630	45401 45402	45405 45406	45409 45410	45413 45414	= C630N fixed FC + 1 Vigi module REM401/400/630	3P 44430	4P 44431
	fixed RC	D500 and D630	■	■	■	■	= C630N REM fixed FC + 1 set of rear connections	per pole 44800	
	plug-in FC RC	D500 and D630	■	■	■	■	= C630N REM fixed FC + 1 set of plugs (1) + 1 plug-in base FC/RC + 1 set of short term. shields	per pole 44802 3P 44817 4P 44818 3P 44829 4P 44830	
Vigicompact C630H REM*	fixed FC	D500 D630	45391 45395	45392 45396	45393 45397	45394 45398	= C630H fixed FC + 1 Vigi module REM401/400/630	3P 44430	4P 44431
	fixed RC	D500 and D630	■	■	■	■	= C630H REM fixed FC + 1 set of rear connections	per pole 44800	
	plug-in FC RC	D500 and D630	■	■	■	■	= C630H REM fixed FC + 1 set of plugs (1) + 1 plug-in base FC/RC + 1 set of short term. shields	per pole 44802 3P 44817 4P 44818 3P 44829 4P 44830	
Vigicompact C630L REM*	fixed FC	D500 D630	45421 45422	45425 45426	45429 45430	45433 45434	= C630L fixed FC with spacing supports + 1 Vigi module REM401/400/630	3P 44430	4P 44431
	fixed RC	D500 and D630	■	■	■	■	= C630L REM fixed FC, with spacing supports + 1 set of connections for supports + 1 set of rear connections	per pole 44839 per pole 44800	
	plug-in FC RC	D500 and D630	■	■	■	■	= C630L REM fixed FC with spacing supports + 1 set of connections for supports + 1 set of plugs(1) + 1 plug-in base FC/RC + 1 set of short term. shields	per pole 44839 per pole 44802 3P 44817 4P 44818 3P 44829 4P 44830	

Compact C630N/H/L with a Vigirex RCD and a separated toroid

=		+		+		+		+	
	Compact fixed or plug-in (see previous page)		voltage release (see page electrical auxiliaries)		Vigirex RCD $\text{\textcircled{D}}$		toroidal sensors $\text{\textcircled{D}}$		shielded wire $\text{\textcircled{D}}$ (2 conductors)
					RH50 220/240V 50040 220/240V 50041 inherent safety model		IN \varnothing 80 plug-in 50107 MN \varnothing 120 50108		l = 100 m 50136
					RH53A 220/240V 50082 380/415V 50084				



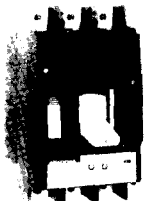
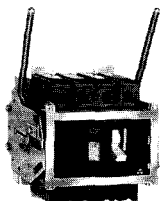
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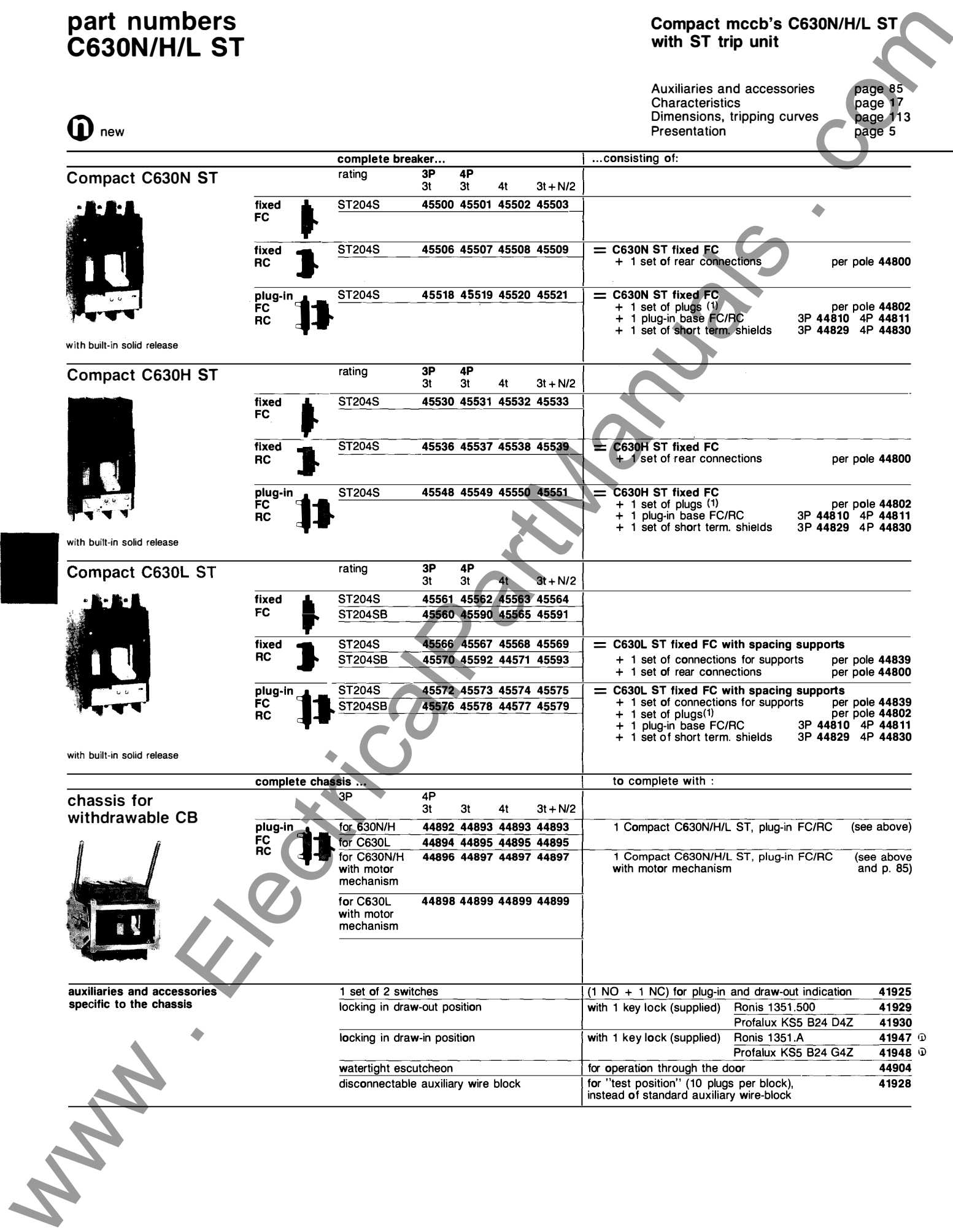
part numbers C630N/H/L ST

Compact mccb's C630N/H/L ST with ST trip unit

Auxiliaries and accessories page 85
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



		complete breaker...					...consisting of:		
		rating	3P 3t	4P 3t	4t	3t + N/2			
 with built-in solid release	fixed FC	ST204S	45500	45501	45502	45503			
	fixed RC	ST204S	45506	45507	45508	45509	= C630N ST fixed FC + 1 set of rear connections per pole 44800		
	plug-in FC RC	ST204S	45518	45519	45520	45521	= C630N ST fixed FC + 1 set of plugs (1) per pole 44802 + 1 plug-in base FC/RC 3P 44810 4P 44811 + 1 set of short term. shields 3P 44829 4P 44830		
 with built-in solid release	fixed FC	ST204S	45530	45531	45532	45533			
	fixed RC	ST204S	45536	45537	45538	45539	= C630H ST fixed FC + 1 set of rear connections per pole 44800		
	plug-in FC RC	ST204S	45548	45549	45550	45551	= C630H ST fixed FC + 1 set of plugs (1) per pole 44802 + 1 plug-in base FC/RC 3P 44810 4P 44811 + 1 set of short term. shields 3P 44829 4P 44830		
 with built-in solid release	fixed FC	ST204S	45561	45562	45563	45564			
		ST204SB	45560	45590	45565	45591			
	fixed RC	ST204S	45566	45567	45568	45569	= C630L ST fixed FC with spacing supports + 1 set of connections for supports per pole 44839 + 1 set of rear connections per pole 44800		
		ST204SB	45570	45592	44571	45593			
	plug-in FC RC	ST204S	45572	45573	45574	45575	= C630L ST fixed FC with spacing supports + 1 set of connections for supports per pole 44839 + 1 set of plugs(1) per pole 44802		
		ST204SB	45576	45578	44577	45579	+ 1 plug-in base FC/RC 3P 44810 4P 44811 + 1 set of short term. shields 3P 44829 4P 44830		
 auxiliaries and accessories specific to the chassis	complete chassis ...		3P	4P			to complete with :		
	plug-in FC RC		for C630N/H	44892	44893	44893	44893	1 Compact C630N/H/L ST, plug-in FC/RC (see above)	
			for C630L	44894	44895	44895	44895		
			for C630N/H with motor mechanism	44896	44897	44897	44897	1 Compact C630N/H/L ST, plug-in FC/RC with motor mechanism (see above and p. 85)	
		for C630L with motor mechanism	44898	44899	44899	44899			
	1 set of 2 switches						(1 NO + 1 NC) for plug-in and draw-out indication 41925		
	locking in draw-out position						with 1 key lock (supplied) Ronis 1351.500 41929 Profalux KS5 B24 D4Z 41930		
	locking in draw-in position						with 1 key lock (supplied) Ronis 1351.A 41947 ① Profalux KS5 B24 G4Z 41948 ①		
	watertight escutcheon						for operation through the door 44904		
	disconnectable auxiliary wire block						for "test position" (10 plugs per block), instead of standard auxiliary wire-block 41928		





Vigicompact C630N/H/L ST Compact C630N/H/L ST with Vigirex RCD

Auxiliaries and accessories page 85
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5

complete breaker...				... consisting of :					
	rating	3P 3t	4P 3t	4t	3t + N/2				
	fixed FC	ST204S	45437	45438	45439	45440	= C630N ST fixed FC + 1 Vigi module REM401/400/630	3P 44430	4P 44431
	fixed RC	ST204S	■	■	■	■	= C630N ST REM fixed FC + 1 set of rear connections	per pole 44800	
	plug-in FC RC	ST204S	■	■	■	■	= C630N ST REM fixed FC + 1 set of plugs (1) + 1 plug-in base FC/RC + 1 set of short term. shields	per pole 44802 3P 44817 4P 44818 3P 44829 4P 44830	
Vigicompact C630H ST REM*	rating	3P 3t	4P 3t	4t	3t + N/2				
	fixed FC	ST204S	45441	45442	45443	45444	= C630H ST fixed FC + 1 Vigi module REM401/400/630	3P 44430	4P 44431
	fixed RC	ST204S	■	■	■	■	= C630H ST REM fixed FC + 1 set of rear connections	per pole 44800	
plug-in FC RC	ST204S	■	■	■	■	= C630H ST REM fixed FC + 1 set of plugs (1) + 1 plug-in base FC/RC + 1 set of short term. shields	per pole 44802 3P 44817 4P 44818 3P 44829 4P 44830		
Vigicompact C630L ST REM*	rating	3P 3t	4P 3t	4t	3t + N/2				
	fixed FC	ST204S ST204SB	45445	45446	45447	45448	= C630L ST fixed FC with spacing supports + 1 Vigi module REM401/400/630	3P 44430	4P 44431
	fixed RC	ST204S ST204SB	■	■	■	■	= C630L ST REM fixed FC, with spacing supports + 1 set of connections for supports + 1 set of rear connections	per pole 44839 per pole 44800	
plug-in FC RC	ST204S ST204SB	■	■	■	■	= C630L ST REM fixed FC with spacing supports + 1 set of connections for supports + 1 set of plugs(1) + 1 plug-in base FC/RC + 1 set of short term. shields	per pole 44839 per pole 44802 3P 44817 4P 44818 3P 44829 4P 44830		

Compact C630N/H/L ST with a Vigirex RCD and a separated toroid

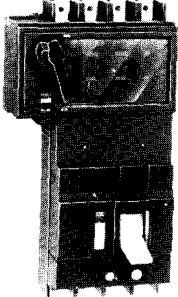
=		+		+		+		+	
	Compact fixed or plug-in (see previous page)		voltage release (see page electrical auxiliaries)		Vigirex RCD ⊕		toroidal sensors ⊕		shielded wire ⊕ (2 conductors)
					RH50	220/240V	50040	IN∅80	50107
						220/240V	50041	MN∅120	50108
						inherent safety model			
					RH53A	220/240V	50082		l = 100 m
						380/415V	50084		50136

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part numbers C630N/H/L and C630N/H/L ST

Visucompact mccb's C630N/H/L and C630N/H/L ST

Auxiliaries and accessories opposite page
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5

		complete breaker...				...consisting of:		
		rating	3P 3t	4P 3t	4t	3t + N/2		
Visucompact C630N 	fixed FC	D500 to D630	■	■	■	■	= C630N fixed FC + 1 Visu module V630 3P 45385 4P 45386	
	fixed RC	D500 to D630	■	■	■	■	= Visucompact C630N fixed FC + 1 set of rear connections per pole 44800	
Visucompact C630N ST*	fixed FC	ST204S	■	■	■	■	= C630N ST fixed FC + 1 Visu module V630 3P 45385 4P 45386	
	fixed RC	ST204S	■	■	■	■	= Visucompact C630N ST fixed FC + 1 set of rear connections per pole 44800	
earth leakage Visucompact C630N REM*	fixed FC	D500 to D630	■	■	■	■	= Visucompact C630N fixed FC + 1 Vigi module REM400/630 3P 44430 4P 44431	
	fixed RC	D500 to D630	■	■	■	■		
earth leakage Visucompact C630N ST REM*	fixed FC	ST204S	■	■	■	■	= Visucompact C630N ST fixed FC/RC + 1 Vigi module REM400/630 3P 44430 4P 44431	
	fixed RC	ST204S	■	■	■	■		
auxiliaries and accessories specific to the Visucompact	auxiliary double-throw switch						OF standard or CAM early break depending on mounting 2 OF 42906 47757	
	earthing switch for neutral in open position (compulsory if the transformer neutral is earthed on the load side of the Visucompact)						44413	
	locking of the Visu module in open position						by 3 padlock (not supplied) built-in	
							by Ronis key lock 1351-500 (supplied)	41940
							by Profalux key lock KS5 B24 D4Z (supplied)	42888
	terminal shields for Visucompact or earth leakage Visucompact						long terminal shields for FC (1 set)	3P 44833 4P 44832
						short terminal	3P 44834 4P 44830	
connection						same as fixed Compact		
Compact NI type (load break switches)							page 104	
automatic and manual source changeover Compact							page 94	

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electrical auxiliaries

auxiliary double-throw switches



1 OF + 1 SD	44900
3 OF + 1 SD	44901
1. CAM (for rotary handle or Visu module)	44827

voltage release (for remote tripping)



MX (shunt trip)	
AC 50/60 Hz or DC (V)	
24	44910
48/60	44911
110/130	44912
220/300	44913
380/480	44914



MN (undervoltage release)			
AC 50 Hz (V)	DC (V)		
110/130	44920	24	44923
220/240	44921	48	44924
380/415	44922	110/130	44925
		250	44926

AC 60 Hz (V)	
110/127	44648
220/240	44928
440	44649

MN (with time delay relay)	
220 V AC 50/60 Hz	
= MN 110/130 V DC	44925
+ time delay relay 250/700 ms	+ 44930

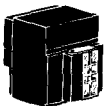
auxiliary wire block (see quantity p. 44)



moving part	
short wires for types N/H	3 term. 42942
	6 term. 42943
long wires for type L	3 term. 42944
	6 term. 42945
fixed part	
for all types	3 term. 42940
	6 term. 42941
pack of 24 female clips	42946

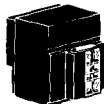
adaptable motor mechanism

type T (for remote control)



AC 50/60 HZ (V)	DC (V)
110/127(1)44975	24(1) 44970
220/240(1)44976	48/60(1) 44971
380/415(2)44977	110/125(1)44972
440/480(2)44978	220/250(1)44973

type TS (for synchronizing)(3)



AC 50/60 HZ (V)	DC (V)
110/127(1)44984	110/125(1)44982
220/240(1)44985	

accessories for motor mechanism

SDE alarm switch	44906
Sealable cover	42974
locking of the motor mech. by 1 key lock (not supplied)	44876
Ronis 1351.500 or Profalux KS5 B24 D4Z	

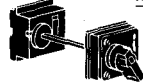
accessories



direct rotary handle	
with black toggle	44820
red toggle	44847
watertight escutcheon	44940

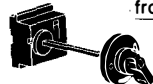
extended rotary handle

with door locking



front door mounting	
short shaft	44821
(= 44820 + 42882)	
long shaft	44835
(= 44820 + 42884)	
rear door mounting	
short shaft	44837
(= 44820 + 42889)	
long shaft	44840
(= 44820 + 42897)	

without door locking



front door mounting	
short shaft	44828
(= 44820 + 45853)	

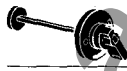
accessories for converting direct rotary handle to extended handle

with door locking



front door mounting	
short shaft	42882
long shaft	42884
rear door mounting	
short shaft	42889
long shaft	42897

without door locking



short shaft	45853
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shaft bracket

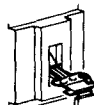


for short shaft (always included on rotary handles with long shaft)	42868
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locking by padlocks or key lock



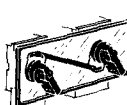
of the rotary handle (circuit-breaker in OFF position)	
by 3 padlocks (not supplied)	built-in
1 Ronis key lock 1351.500	41940
1 Profalux key lock KS5 B24 D4Z	42888



of the toggle (in OFF position)	
by 3 padlocks (not supplied)	44936

mechanical interlocking

(for breakers with rotary handle)



mechanical device	44826
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key locks interlocking

(for breakers with rotary handle)



1 set of 2 Ronis 1351.500 key locks (1 single key)	41950
1 set of 2 Profalux KS5 B24 D4Z key locks (1 single key)	42878

sealing accessories



for release, adjustment, cover	44937
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cut-out grommet for door



Compact fixed or plug-in without motor mechanism	44938
with motor mechanism	43745

tight bellows



for toggle (IP43)	44965
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locator



for plug-in contact	43816
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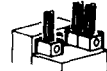
sealable terminal shields



short term. shields	2P/3P 44829
	4P 44830
long term. shields	2P/3P 44831
	4P 44832
extension for L type	3P 43833
	4P 43834
protective shield for plug-in base	2P/3P/4P 44836

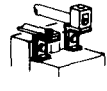
connection (see p. 54)

connectors for bare cables



single connector per pole for 1 cable 70° ≤ S ≤ 300°	44813
double connector per pole for 2 cables 70° ≤ S ≤ 240°	44814

angle terminals



for fixed FC version (long terminal shields compulsory)	per pole 44815
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spreader



for fixed FC or plug-in FC/RC version	3P 44841
	4P 44842

spare parts



cover	2P/3P/4P 44960
	4P 43941



toggle	44964
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black toggle for : rotary handle Visu module V400/630	44846
	45858

(1) Direct supply motor mechanism.
(2) Motor mechanism supplied through an additional resistor.
■ T400/630, 380/415 V, 44977

part numbers C800N/H/L ST

Compact mccb's C800N/H/L ST with ST trip units

Auxiliaries and accessories page 87
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



		complete breaker...							
		rating	3P 3t	4P 3t	4t	3t + N/2			
	fixed FC	ST205D	46251	46252	46253	46254	= C800N ST without release	3P 46001	4P 46002
							+ ST205D trip unit	(see at foot)	
							+ Neutral CT	for 4P 4t	46220
							or for 4P 3t + N/2		46223
	fixed RC	ST205D	■	■	■	■	= C800N ST complete fixed FC	1 piece 46958	
	drawout RC	flat pads					= C800N ST complete fixed FC		
		ST205D	46291	46292	46293	46294	+ moving chassis	3P 46981	4P 46982
		edgewise pads					+ fixed chassis	3P 46984	4P 46986
		ST205D	46331	46332	46333	46334	+ pads	flat	1 piece 46990
							or edgewise		1 piece 46988
	fixed FC	ST205D	46256	46257	46258	46259	= C800H ST without release	3P 46004	4P 46005
							+ ST205D trip unit	(see at foot)	
							+ Neutral CT	for 4P 4t	46220
							or for 4P 3t + N/2		46223
	fixed RC	ST205D	■	■	■	■	= C800H ST complete fixed FC	1 piece 46958	
	drawout RC	flat pads					= C800H ST complete fixed FC		
		ST205D	46296	46297	46298	46299	+ moving chassis	3P 46919	4P 46920
		edgewise pads					+ fixed chassis	3P 46984	4P 46986
		ST205D	46336	46337	46338	46339	+ pads	flat	1 piece 46990
							or edgewise		1 piece 46988
	fixed FC	ST305SL	46370	46371	46372	46373	= C800L ST without release	3P 46019	4P 46020
							+ ST 305SL trip unit	(see at foot)	
							+ Neutral CT	for 4P 4t	46220
							or for 4P 3t + N/2		46223
	fixed RC	ST305SL	■	■	■	■	= C800L ST complete fixed FC	1 piece 46916	
							+ rear connection	flat	1 piece 46913
	drawout RC	flat pads					= C800L ST complete fixed FC		
		ST305SL	46374	46375	46376	46377	+ moving chassis	3P 46979	4P 46980
		edgewise pads					+ fixed chassis	3P 46983	4P 46985
		ST305SL	46378	46379	46380	46381	+ pads	flat	1 piece 46990
							or edgewise		1 piece 46988

Compact C800N/H/L ST with a Vigirex RCD and a separated toroid

	+		+		+	
Compact fixed or plug-in (see above)		voltage release (see page electrical auxiliaries)		Vigirex RCD ①		toroidal sensors ①
						shielded wire ① (2 conductors)
				RH50	220/240V	50040
					220/240V	50041
					inherent safety model	
				RH53A	220/240V	50082
					380/415V	50084
				MNØ120		50108
				SNØ200		50109
				l = 100 m		50136

Compact NI type (load break switches) page 104

automatic and manual source changeover Compact page 94

trip units (see characteristics on page 30)


Compact type	type of protection	solid state trip units	Compact type	type of protection	solid state trip units	external neutral CT for option T and Tz
N/H	Standard	ST205D	L	Selective	ST305SL	Sensor to be fitted in the system neutral earth connection: CT neutral 800A ref. 46248
	Selective	ST305S			ST305SL + R	
		ST305S + R			ST305SL + F	
		ST305S + F			ST305SLT	
		ST305ST			ST305SL + R + F	
		ST305S + R + F			ST305SLT + F	
		ST305ST + F			ST305SB	
Generator	ST305G	ST305SB + R	ST305SB + F			

Functions referenced by the letters :
 F fault indicator on front face
 R load monitoring
 T ground fault protection
 Tz ground fault protection with zone selective interlocking consult us





electrical auxiliaries

auxiliary switches

	1 OF + 1 SD	44900
	3 OF + 1 SD	44901
	1 CAM (for rotary handle or Visu module)	44827
	double-throw micro-switches	
	"plugged-in" position	46963
	"withdrawn" position	46964


voltage releases (for remote tripping)

	MX (shunt trip) AC 50/60 Hz or DC (V)	
	24	44910
	48/60	44911
	110/130	44912
	220/300	44913
	380/480	44914


	MN (undervoltage release) AC 50 Hz	DC (V)	
	48	24	44923
	110/130	48	44924
	220/240	110/130	44925
	380/415	250	44926
	AC 60 Hz (V)		
	110/127	44648	
	220/240	44928	
	440	44649	

	MN (with time delay relay) 220 V AC 50/60 Hz = MN 110/130 V DC + time delay relay 250/700 ms	44925	44930
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auxiliary wire block (see quantity p. 44)

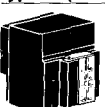
	moving part		
	short wires	3 term.	42942
	for types N/H	6 term.	42943
	long wire	3 term.	42944
	for type L	6 term.	42945
	fixed part		
	for all types	3 term.	42940
		6 term.	42941
	pack of 24 female clips		42946

connection set of auxiliaries (replace the standard auxiliary wire blocks)

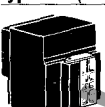
	connection set (6 wires) with extension cable	46989
	additional connection set (6 wires)	41928

adaptable motor mechanism

type T (for remote control)

	AC 50/60 Hz (V)	DC (V)	
	110/127(1)	24(1)	46928
	220/240(1)	48/60(1)	46929
	380/415(2)	110/125(1)	46930
	440/480(2)	220/250(1)	46931
			46920

type TS (for synchronizing, except for ATS)


	AC 50/60 Hz (V)	DC (V)	
	110/127(1)	110/125(1)	46876
	220/240(1)		46877

accessories for motor mechanism

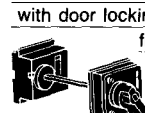
	SDE alarm switch	46962
	sealable cover (consult us)	
	locking of the motor mech. by 1 key lock (not supplied) Ronis 1351.500 or Profalux KS5 B24 D4Z	44876

accessories

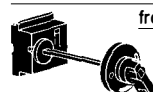
direct rotary handle

	with black toggle	46933
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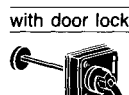
extended rotary handle

	with door locking	
	front door mounting	
	short shaft	46935
	(= 46933 + 42882)	
	long shaft	46937
	(= 46933 + 42884)	
	rear door mounting	
	short shaft	46871
	(= 46933 + 42889)	
	long shaft	46872
	(= 46933 + 42897)	

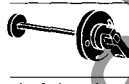
without door locking

	front door mounting	
	short shaft	46938
	(= 46933 + 45853)	


accessories for converting direct rotary handle to extended handle

	with door locking	
	front door mounting	
	short shaft	42882
	long shaft	42884
	rear door mounting	
	short shaft	42889
	long shaft	42897

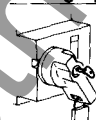
without door locking

	short shaft	45853
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shaft bracket

	for short shaft (always included on rotary handles with long shaft)	42868
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locking by padlocks or key lock

	of the rotary handle (circuit-breaker in "OFF" position) by 3 padlocks (not supplied) built-in 1 Ronis key lock 1351.500	41940
	1 Profalux key lock KS5 B24 D4Z	42888

	for withdrawable circuit-breaker locking device for 1 or 2 keylocks (not supplied)	46974
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keylocks for locking in draw-out position (free key)

1 keylock	Ronis 1351.500	41940
	Profalux KS5 B24 D4Z	42888
1 set of 2 keylocks (1 key only)	Ronis 1351.500	41950
	Profalux KS B24 D4Z	42878

keylocks for locking in draw-in position (free key)

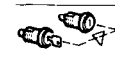
1 key	Ronis 1351.500	41945
	Profalux KS5 B24 D4Z	42900

	of the toggle (in "OFF" position) by 3 padlocks (not supplied)	44936
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mechanical interlocking (for fixed breakers with rotary handle)

	mechanical device	46946
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key locks interlocking (for breakers with rotary handle and withdrawable breakers)

	1 set of 2 key locks Ronis 1351.500 (1 key only)	41950
	1 set of 2 key locks Profalux KS5 B24 D4Z (1 key only)	42878


sealing accessories


	for release, adjustment cover	46939
		44937

circuit label-holder

	set of 10	42976
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door cut-out grommet



	for fixed breaker	44938
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	for withdrawable breaker (tightness IP40) with extended toggle	46977
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insulating shutters (for insulating the disconnecting contacts on fixed chassis)

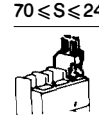
	1 piece	46987
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sealable terminal shields


	short	3P	46993
	(1 line side or load side)	4P	46992
	long	3P	46999
	(1 line side or load side)	4P	46995


connection (see p. 55)

connectors for 4 Cu or Al cables 70 ≤ S ≤ 240²

	1 set with long terminal shield (line side or load side)	3P 46960
		4P 46994


connection pads

	for fixed FC Compact N/H/L edgewise pads 1 piece	46988
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	for fixed RC Compact N/H edgewise pads 1 piece	46958
	for fixed RC Compact L flat pads 1 piece	46916
	edgewise pads 1 piece	46913

testing devices


	testing kit	54172
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	testing unit	43362
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spare parts

	cover	3P/4P 44997
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	toggle	46996
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	black toggle for : rotary handle Visu module	45858
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(1) Direct supply motor mechanism
(2) Motor mechanism supplied through an additional resistor

part numbers C1000N/H/L ST

Compact mccb's C1000N/H/L ST with ST trip unit

Auxiliaries and accessories page 89
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5



		complete breaker...				...consisting of:	
		rating	3P 3t	4P 3t	4t	3t + N/2	
	fixed FC	ST205D	46266	46267	46268	46269	= C1000N ST without release 3P 46007 4P 46008 + ST205D trip unit (see at foot) + Neutral CT for 4P 4t 46221 or for 4P 3t + N/2 46223
	fixed RC	ST205D	■	■	■	■	= C1000N ST complete fixed FC + rear connections 1 piece 46958
	drawout RC	flat pads ST205D	46306	46307	46308	46309	= C1000N ST complete fixed FC + moving chassis 3P 46981 4P 46982 + fixed chassis 3P 46984 4P 46986 + pads flat 1 piece 46990 or edgewise 1 piece 46988
	edgewise pads ST205D	46346	46347	46348	46349		
	fixed FC	ST205D	46271	46272	46273	46274	= C1000H ST without release 3P 46010 4P 46011 + ST205D trip unit (see at foot) + Neutral CT for 4P 4t 46221 or for 4P 3t + N/2 46223
	fixed RC	ST205D	■	■	■	■	= C1000H ST complete fixed FC + rear connections 1 piece 46958
	drawout RC	flat pads ST205D	46311	46312	46313	46314	= C1000H ST complete fixed FC + moving chassis 3P 46981 4P 46982 + fixed chassis 3P 46984 4P 46986 + pads flat 1 piece 46990 or edgewise 1 piece 46988
	edgewise pads ST205D	46351	46352	46353	46354		
	fixed FC	ST305SL	46382	46383	46384	46385	= C1000L ST without release 3P 46022 4P 46023 + ST 305SL trip unit (see at foot) + Neutral CT for 4P 4t 46221 or for 4P 3t + N/2 46223
	fixed RC	ST305SL	■	■	■	■	= C1000L ST complete fixed FC + rear connection flat 1 piece 46916 or edgewise 1 piece 46913
	drawout RC	flat pads ST305SL	46386	46387	46388	46389	= C1000L ST complete fixed FC + moving chassis 3P 46981 4P 46982 + fixed chassis 3P 46983 4P 46985 + pads flat 1 piece 46990 or edgewise 1 piece 46988
	edgewise pads ST305SL	46390	46391	46392	46393		

Compact C1000N/H/L ST with a Vigirex RCD and a separated toroid



Compact fixed or plug-in (see above)

voltage release (see page electrical auxiliaries)

Vigirex RCD ⊕

RH50	220/240V	50040
	220/240V inherent safety model	50041
RH53A	220/240V	50082
	380/415V	50084

toroidal sensors ⊕

MN∅120	50108
SN∅200	50109

shielded wire ⊕ (2 conductors)

l = 100 m	50136
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Compact NI type (load break switches) page 104

automatic and manual source changeover Compact page 94

trip units (see characteristics en page 30)

Compact type	type of protection	solid state trip units	Compact type	type of protection	solid state trip units	external neutral CT for option T and Tz Sensor to be fitted in the system neutral earth connection: CT neutral 1000A ref. 46249	
N/H	Standard	ST205D	46151	L	Selective	ST305SL	46164
		ST305S	46152			ST305SL + R	46165
	Generator	ST305S + R	46153		ST305SL + F	46166	
		ST305S + F	46154		ST305SLT	46167	
		ST305ST	46155		ST305SL + R + F	46168	
		ST305S + R + F	46156		ST305SLT + F	46169	
		ST305ST + F	46157		Selective with	ST305SB	46170
		ST305G	46158		ST305SB + R	46171	
		ST305G + R	46159		ST305SB + F	46172	
					ST205DPT	46173	

Functions referenced by the letters :
 F fault indicator on front face
 R load monitoring
 T ground fault protection
 Tz ground fault protection with zone selective interlocking consult us




Compact mccb's C1000N/H/L ST auxiliaries, accessories connection, spare parts


Characteristics page 17
Dimensions, tripping curves page 113
Presentation page 5


electrical auxiliaries

auxiliary switches

	1 OF + 1 SD	44900
	3 OF + 1 SD	44901
	1 CAM (for rotary handle or Visu module)	44827
	double-throw micro-switches	
	"plugged-in" position	46963
	"withdrawn" position	46964


voltage releases (for remote tripping)

	MX (shunt trip) AC 50/60 Hz or DC (V)	
	24	44910
	48/60	44911
	110/130	44912
	220/300	44913
	380/480	44914

	MN (undervoltage release) AC 50 Hz	DC	
	(V)	(V)	
	48	44919	24 44923
	110/130	44920	48 44924
	220/240	44921	110/130 44925
	380/415	44922	250 44926
	AC 60 Hz (V)		
	110/127	44648	
	220/240	44928	
	440	44649	


MN (with time delay relay) 220 V AC 50/60 Hz = MN 110/130 V DC + time delay relay 250/700 ms	44925
	44930

auxiliary wire block (see quantity p. 44)

	moving part	
	short wires	3 term. 42942
	for types N/H	6 term. 42943
	long wire	3 term. 42944
	for type L	6 term. 42945
	fixed part	
	for all types	3 term. 42940
		6 term. 42941
	pack of 24 female clips	42946

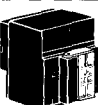
connection set of auxiliaries

(replace the standard auxiliary wire blocks)


	connection set (6 wires) with extension cable	46989
	additional connection set (6 wires)	41928

adaptable motor mechanism

type T (for remote control)

	AC 50/60 Hz	DC
	(V)	(V)
	110/127(1) 46928	24(1) 46917
	220/240(1) 46929	48/60(1) 46918
	380/415(2) 46930	110/125(1) 46919
	440/480(2) 46931	220/250(1) 46920

type TS (for synchronizing, except for ATS)


	AC 50/60 Hz	DC
	(V)	(V)
	110/127(1) 46876	110/125(1) 46874
	220/240(1) 46877	

accessories for motor mechanism

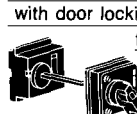
SDE alarm switch	46962
sealable cover (consult us)	
locking of the motor mech. by 1 key lock (not supplied) Ronis 1351.500 or Profalux KS5 B24 D4Z	44876

accessories

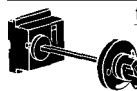
direct rotary handle

	with black toggle	46933
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extended rotary handle

	with door locking	
	front door mounting	
	short shaft	46935
	(= 46933 + 42882)	
	long shaft	46937
	(= 46933 + 42884)	
	rear door mounting	
	short shaft	46871
	(= 46933 + 42889)	
	long shaft	46872
	(= 46933 + 42897)	

without door locking

	front door mounting	
	short shaft	46938
	(= 46933 + 45853)	


accessories for converting direct rotary handle to extended handle

	with door locking	
	front door mounting	
	short shaft	42882
	long shaft	42884
	rear door mounting	
	short shaft	42889
	long shaft	42897

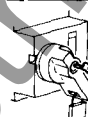
without door locking


	short shaft	45853
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shaft bracket

	for short shaft (always included on rotary handles with long shaft)	42868
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locking by padlocks or key lock

	of the rotary handle (circuit-breaker in "OFF" position) by 3 padlocks (not supplied) built-in 1 Ronis key lock 1351.500	41940
	1 Profalux key lock KS5 B24 D4Z	42888

	for withdrawable circuit-breaker locking device for 1 or 2 keylocks (not supplied)	46974
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keylocks for locking in draw-out position (free key)


1 keylock Ronis 1351.500	41940
Profalux KS5 B24 D4Z	42888
1 set of 2 keylocks (1 key only) Ronis 1351.500	41950
Profalux KS B24 D4Z	42878

keylocks for locking in draw-in position (free key)


1 key Ronis 1351.500	41945
Profalux KS5 B24 D4Z	42900

	of the toggle (in "OFF" position) by 3 padlocks (not supplied)	44936
---	---	-------


mechanical interlocking (for fixed breakers with rotary handle)

	mechanical device	46946
---	-------------------	-------


key locks interlocking (for breakers with rotary handle and withdrawable breakers)

	1 set of 2 key locks Ronis 1351.500 (1 key only)	41950
	1 set of 2 key locks Profalux KS5 B24 D4Z (1 key only)	42878


sealing accessories


	for release, adjustment cover	46939 44937
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circuit label-holder

	set of 10	42976
---	-----------	-------

door cut-out grommet


	for fixed breaker	44938
---	-------------------	-------

	for withdrawable breaker (tightness IP40) with extended toggle	46977
---	--	-------

insulating shutters (for insulating the disconnecting contacts on fixed chassis)

	1 piece	46987
--	---------	-------


sealable terminal shields

	short	3P	46993
	(1 line side	4P	46992
	or load side)		
	long	3P	46999
	(1 line side	4P	46995
	or load side)		


connection (see p. 55)


connectors for 4 Cu or Al cables


70 ≤ S ≤ 240

	1 set with long terminal shield (line side or load side)	3P 46960 4P 46994
---	--	----------------------

connection pads


	for fixed FC Compact N/H/L edgewise pads 1 piece	46988
---	--	-------


	for fixed RC Compact N/H edgewise pads 1 piece	46958
---	--	-------

	for fixed RC Compact L flat pads 1 piece	46916
---	--	-------


	edgewise pads 1 piece	46913
--	-----------------------	-------

testing devices

	testing kit	54172
---	-------------	-------

	testing unit	43362
---	--------------	-------

spare parts

	cover	3P/4P 44997
---	-------	-------------

	toggle	46996
---	--------	-------

	black toggle for : rotary handle	45858
---	-------------------------------------	-------

(1) Direct supply motor mechanism
(2) Motor mechanism supplied through an additional

part numbers C1250N/H ST

Compact mccb's C1250N/H ST with ST trip unit



Auxiliaries and accessories page 91
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5

		complete breaker...				...consisting of:		
		rating	3P 3t	4P 3t 4t	3t + N/2			
C1250N ST*	fixed FC	ST205D	46281	46282 46283	46284	= C1250N ST without release	3P 46013 4P 46014	
						+ ST205D trip unit	(see at foot)	
						+ Neutral CT	for 4P 4t 46222 or for 4P 3t + N/2 46223	
	fixed RC	ST205D	■	■ ■	■ ■	= C1250N ST complete fixed FC		
						+ rear connections	1 piece 46958	
	drawout RC	flat pads					= C1250N ST complete fixed FC	
		ST205D	46321	46322 46323	46324	+ moving chassis	3P 46981 4P 46982	
		edgewise pads					+ fixed chassis	3P 46984 4P 46986
		ST205D	46361	46362 46363	46364	+ pads	flat 1 piece 46990 or edgewise 1 piece 46988	
C1250H ST*	fixed FC	ST205D	46286	46287 46288	46289	= C1250H ST without release	3P 46016 4P 46017	
						+ ST205D trip unit	(see at foot)	
						+ Neutral CT	for 4P 4t 46222 or for 4P 3t + N/2 46223	
	fixed RC	ST205D	■	■ ■	■ ■	= C1250H ST complete fixed FC		
						+ rear connections	1 piece 46958	
	drawout RC	flat pads					= C1250H ST complete fixed FC	
		ST205D	46326	46327 46328	46329	+ moving chassis	3P 46981 4P 46982	
		edgewise pads					+ fixed chassis	3P 46984 4P 46986
		ST205D	46366	46367 46368	46369	+ pads	flat 1 piece 46990 or edgewise 1 piece 46988	

Compact C1250N/H ST
with a Vigirex RCD and
a separated toroid



Compact fixed or plug-in (see above)

voltage release (see page electrical auxiliaries)

Vigirex RCD ⊕

RH50	220/240V	50040
	220/240V	50041
	inherent safety model	
RH53A	220/240V	50082
	380/415V	50084

toroidal sensors ⊕

MN∅120	50108
SN∅200	50109

shielded wire ⊕ (2 conductors)

l = 100 m	50136
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Compact NI type (load break switches) page 104

automatic and manual source changeover Compact page 94


trip units (see characteristics on page 30)

Compact type	type of protection	solid state trip units	Functions referenced by the letters :	external neutral CT for option T and Tz	ref.	
N/H	Standard	ST205D	46151	F fault indicator on front face	Sensor to be fitted in the system neutral earth connection: CT neutral 1250A	46250
		ST305S	46152	R load monitoring		
	Selective	ST305S + R	46153	T ground fault protection		
		ST305S + F	46154	Tz ground fault protection with zone selective interlocking consult us		
		ST305ST	46155			
		ST305S + R + F	46156			
		ST305ST + F	46157			
		Generator	ST305G	46158		
	ST305G + R	46159				
	ST305G + F	46160				
ST305GT	46161					
ST305G + R + F	46162					
ST305GT + F	46163					





electrical auxiliaries


auxiliary switches


	1 OF + 1 SD	44900
	3 OF + 1 SD	44901
	1 CAM (for rotary handle or Visu module)	44827
	double-throw micro-switches	
	"plugged-in" position	46963
	"withdrawn" position	46964

voltage releases (for remote tripping)


	MX (shunt trip)	
	AC 50/60 Hz or DC (V)	
	24	44910
	48/60	44911
	110/130	44912
	220/300	44913
	380/480	44914

	MN (undervoltage release)	
	AC 50 Hz (V)	DC (V)
	48	44919
	110/130	44920
	220/240	44921
	380/415	44922
	250	44926


	AC 60 Hz (V)	
	110/127	44648
	220/240	44928
	440	44649

	MN (with time delay relay)	
	220 V AC 50/60 Hz	
	= MN 110/130 V DC	
	+ time delay relay	
	250/700 ms	44930

auxiliary wire block (see quantity p. 44)

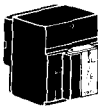
	moving part	
	short wires	3 term. 42942
	for types N/H	6 term. 42943
	fixed part	
	for all types	3 term. 42940
		6 term. 42941
	pack of 24 female clips	42946

connection set of auxiliaries (replace the standard auxiliary wire blocks)


	connection set (6 wires)	46989
	with extension cable	
	additional connection set (6 wires)	41928

adaptable motor mechanism

type T (for remote control)

	AC 50/60 Hz (V)	DC (V)
	110/127(1)	46928
	220/240(1)	46929
	380/415(2)	46930
	440/480(2)	46931
	220/250(1)	46920

type TS (for synchronizing, except for ATS)


	AC 50/60 Hz (V)	DC (V)
	110/127(1)	46876
	220/240(1)	46877

accessories for motor mechanism

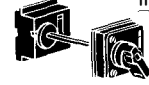
	SDE alarm switch	46962
	sealable cover (consult us)	
	locking of the motor mech. by 1 key lock (not supplied)	44876
	Ronis 1351.500 or Profalux KS5 B24 D4Z	

accessories

direct rotary handle


	with black toggle	46933
---	-------------------	-------

extended rotary handle


	with door locking	
	front door mounting	
	short shaft	46935
	(= 46933 + 42882)	
	long shaft	46937
	(= 46933 + 42884)	

	rear door mounting	
	short shaft	46871
	(= 46933 + 42889)	
	long shaft	46872
	(= 46933 + 42887)	

without door locking


	front door mounting	
	short shaft	46938
	(= 46933 + 45853)	

accessories for converting direct rotary handle to extended handle

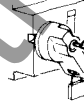
	with door locking	
	front door mounting	
	short shaft	42882
	long shaft	42884
	rear door mounting	
	short shaft	42889
	long shaft	42897


	without door locking	
	short shaft	45853

shaft bracket


	for short shaft (always included on rotary handles with long shaft)	42868
---	---	-------

locking by padlocks or key lock


	of the rotary handle (circuit-breaker in "OFF" position)	
	by 3 padlocks (not supplied) built-in	
	1 Ronis key lock 1351.500	41940
	1 Profalux key lock KS5 B24 D4Z	42888

	for withdrawable circuit-breaker	
	locking device for 1 or 2 keylocks (not supplied)	46974

keylocks for locking in draw-out position (free key)


	1 keylock Ronis 1351.500	41940
	Profalux KS5 B24 D4Z	42888
	1 set of 2 keylocks (1 key only)	
	Ronis 1351.500	41950
	Profalux KS B24 D4Z	42878

keylocks for locking in draw-in position (free key)


	1 key Ronis 1351.500	41945
	Profalux KS5 B24 D4Z	42900


	of the toggle (in "OFF" position) by 3 padlocks (not supplied)	
		44936


mechanical interlocking (for fixed breakers with rotary handle)


	mechanical device	46946
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key locks interlocking (for breakers with rotary handle and withdrawable breakers)


	1 set of 2 key locks Ronis 1351.500 (1 key only)	41950
	1 set of 2 key locks Profalux KS5 B24 D4Z (1 key only)	42878


	for release, adjustment cover	46939
		44937

	circuit label-holder set of 10	42976
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	door cut-out grommet for fixed breaker	44938
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
	for withdrawable breaker (tightness IP40) with extended toggle	46977
---	--	-------

	insulating shutters (for insulating the disconnecting contacts on fixed chassis)	
	1 piece	46987


	sealable terminal shields	
	short 3P	46993
	(1 line side or load side)	4P 46992
	long 3P	46999
	(1 line side or load side)	4P 46995


connection (see p. 55)

connectors for 4 Cu or Al cables 70 ≤ S ≤ 240


	1 set with long terminal shield (line side or load side)	3P 46960
		4P 46994


connection pads

	for fixed FC Compact N/H/L	
	edgewise pads 1 piece	46988


	for fixed RC Compact N/H	
	edgewise pads 1 piece	46958

testing devices


	testing kit	54172
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	testing unit	43362
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spare parts

	cover	3P/4P 44997
---	-------	-------------

	toggle	46996
---	--------	-------

	black toggle for rotary handle (Visu module)	45858
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(1) Direct supply motor mechanism
(2) Motor mechanism supplied through an additional




part numbers C800N/H/L ST to C1250N/H ST

Visucompact mccb's C800N ST to C1250N ST

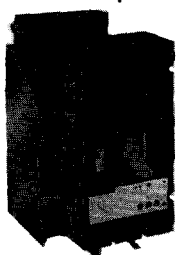

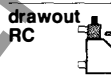
Auxiliaries and accessories page 93
 Characteristics page 17
 Dimensions, tripping curves page 113
 Presentation page 5








fixed Visucompact

		complete breaker...				...consisting of:	
		rating	3P 3t	4P 3t	4t	3t + N/2	
	fixed FC	ST205D	■	■	■	■	= C800N ST complete fixed FC + Visu module V800 with intermediate cover 3P 46907 4P 46908 without cover or accessories(1) 3P 46940 4P 46941
	fixed FC	ST205D	■	■	■	■	= C1000N ST complete fixed FC + Visu module V1250 with intermediate cover 3P 46909 4P 46910 without cover or accessories(1) 3P 46942 4P 46943
	fixed FC	ST205D	■	■	■	■	= C1250N ST complete fixed FC + Visu module V1250 with intermediate cover 3P 46909 4P 46910 without cover or accessories(1) 3P 46942 4P 46943

drawout Visucompact

		rating					
		3P 3t	4P 3t	4t	3t + N/2		
	drawout RC	flat pads					= C800N ST complete fixed FC + moving chassis 3P 46981 4P 46982 + fixed chassis 3P 46984 4P 46986 + pads flat 1 piece 46990 or edgewise 1 piece 46988 + safety shutters 46987 ⊕ + door cut-out grommet 46977 ⊕
		ST205D	■	■	■	■	
		edgewise pads					
		ST205D	■	■	■	■	
	drawout RC	flat pads					= C1000N ST complete fixed FC + moving chassis 3P 46981 4P 46982 + fixed chassis 3P 46984 4P 46986 + pads flat 1 piece 46990 or edgewise 1 piece 46988 + safety shutters 46987 ⊕ + door cut-out grommet 46977 ⊕
		ST205D	■	■	■	■	
		edgewise pads					
		ST205D	■	■	■	■	
	drawout RC	flat pads					= C1250N ST complete fixed FC + moving chassis 3P 46981 4P 46982 + fixed chassis 3P 46984 4P 46986 + pads flat 1 piece 46990 or edgewise 1 piece 46988 + safety shutters 46987 ⊕ + door cut-out grommet 46977 ⊕
		ST205D	■	■	■	■	
		edgewise pads					
		ST205D	■	■	■	■	

Visucompact with a Vigirex RCD and separated toroid

=		+		+		+		+																						
	Compact fixed or plug-in (see previous page)		voltage release (see page electrical auxiliaries)		Vigirex RCD ⊕		toroidal sensors ⊕		shielded wire ⊕ (2 conductors)																					
					<table border="1"> <tr> <td>RH50</td> <td>220/240V</td> <td>50040</td> </tr> <tr> <td></td> <td>220/240V</td> <td>50041</td> </tr> <tr> <td></td> <td colspan="2">inherent safety model</td> </tr> <tr> <td>RH53A</td> <td>220/240V</td> <td>50082</td> </tr> <tr> <td></td> <td>380/415V</td> <td>50084</td> </tr> </table>	RH50	220/240V	50040		220/240V	50041		inherent safety model		RH53A	220/240V	50082		380/415V	50084		<table border="1"> <tr> <td>MN∅120</td> <td>50108</td> </tr> <tr> <td>SN∅200</td> <td>50109</td> </tr> </table>	MN∅120	50108	SN∅200	50109		<table border="1"> <tr> <td>l = 100 m</td> <td>50136</td> </tr> </table>	l = 100 m	50136
RH50	220/240V	50040																												
	220/240V	50041																												
	inherent safety model																													
RH53A	220/240V	50082																												
	380/415V	50084																												
MN∅120	50108																													
SN∅200	50109																													
l = 100 m	50136																													

**Visucompact mccb's C800N ST
to C1250N ST :
auxiliaries, accessories and
connections**

auxiliaries, accessories and connections specific to the fixed Visucompact

auxiliary double-throw switch	OF standard or CAM early break depending on mounting	42906
	2 OF	47757
locking of the Visu module in open position	by 3 padlocks (not supplied)	built-in
	by Ronis key lock 1351.500 (supplied)	41940
	by Profalux key lock KS5 B24 D4Z (supplied)	42888
terminal shields for Visucompact	line side (phase separators)	3P/4P 47756
	load side	3P 46999 4P 46995
connection for Visucompact C800N ST	line side, same as Interpact IN1000	see page 103
	load side, same as Compact C800N ST	see page 87
connection for Visucompact C1000N ST	line side, same as Interpact IN1000	see page 103
	load side, same as Compact C1000N ST	see page 89
connection for Visucompact C1250N ST	line side, same as Interpact IN1600	see page 103
	load side, same as Compact C1250N ST	see page 91

auxiliaries, accessories and connections specific to the drawout Visucompact

same as drawout Compact of same rating	for Visucompact C800N	see page 87
	for Visucompact C1000N	see page 89
	for Visucompact C1250N	see page 91



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part numbers automatic and manual source changeover with TC160N/L, C101 to C1250N/H/L

Characteristics
Dimensions, tripping curves
Presentation

page 46
page 128
page 42

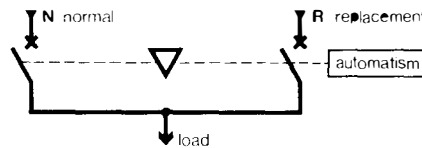


automatic source changeover

constitution



C250N + C250N



The automatic source changeover is equipped with :

- different types of breakers N, H or L
- different ratings (except TC160)
- different trip unit (D, G, SA...)

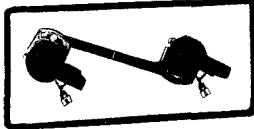
Note :

- the higher rating is always to the left, on normal incoming ;
- for Compact C250 to C630 fixed FC, it is possible to associate a type L with a type N/H by using of spacing supports which balance the difference of depth (4).

Model	Breaker Type	3P	4P	Normal	+ replacement	+ accessories	Price
TC160N/L*	fixed FC	■	■	TC160N w/o release and MT module 3P 42576 4P 42577	TC160N w/o release and MT module 3P 42576 4P 42577	+ 1 plate with interlocking + 2 release units + 2 MT modules AC 50 Hz	42742 (see p.) 42951 42952
				= or TC160L ⁽¹⁾ (see p. 68)	+ or TC160L ⁽¹⁾ (see p. 68)	+ 1 automatism AC 50 Hz ⁽²⁾	220/240 V 2x 380/415 V 2x 220 V 380 V 415 V
C250N/H/L*	fixed FC	■	■	= C250N/H/L ⁽⁴⁾ (see p. 70)	+ C250N/H/L (see p. 70)	+ 1 plate with interlocking	43743
						+ 2 motor mechanisms T250 220/240 V ⁽³⁾ AC 50 Hz	2x 43776
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C250N/H/L*	fixed RC	■	■	= C250N/H/L ⁽⁴⁾ (see p. 70)	+ C250N/H/L (see p. 70)	+ 1 plate with interlocking	43743
						+ 2 motor mechanisms T250 220/240 V ⁽³⁾ AC 50 Hz	2x 43776
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C250N/H/L*	plug-in FC RC	■	■	= C250N/H/L ⁽⁴⁾ (see p. 70)	+ C250N/H/L (see p. 70)	+ 1 plate with interlocking	43743
						+ 2 motor mechanisms T250 220/240 V ⁽³⁾ AC 50 Hz	2x 43776
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C401/C400/C630N/H/L* C630N/H/L ST*	fixed FC	■	■	= C401N/H/L ⁽⁴⁾ (see p. 74) to C630N/H/L ST ⁽⁴⁾ (see p. 82)	+ C250N/H/L (see p. 70)	+ 1 plate with interlocking	43744
						+ 1 motor mechanism T400/630 220/240 V ⁽³⁾ AC 50 Hz	44976
						+ 1 motor mechanism T250 220 V/240 V ⁽³⁾ AC 50 Hz	43776 44888 44891 44889 44890
C401/C400/C630N/H/L* C630N/H/L ST*	fixed RC	■	■	= C401N/H/L ⁽⁴⁾ (see p. 74) to C630N/H/L ST ⁽⁴⁾ (see p. 82)	+ C250N/H/L (see p. 70)	+ 1 plate with interlocking	43744
						+ 1 motor mechanism T400/630 220/240 V ⁽³⁾ AC 50 Hz	44976
						+ 1 motor mechanism T250 220 V/240 V ⁽³⁾ AC 50 Hz	43776 44888 44891 44889 44890
C401/C400/C630N/H/L* C630N/H/L ST*	plug-in FC RC	■	■	= C401N/H/L ⁽⁴⁾ (see p. 74) to C630N/H/L ST ⁽⁴⁾ (see p. 82)	+ C250N/H/L (see p. 70)	+ 1 plate with interlocking	43744
						+ 1 motor mechanism T400/630 220/240 V ⁽³⁾ AC 50 Hz	44976
						+ 1 motor mechanism T250 220 V/240 V ⁽³⁾ AC 50 Hz	43776 44888 44891 44889 44890
C400/C630	fixed FC	■	■	= C401N/H/L ⁽⁴⁾ (see p. 74) to C630N/H/L ST ⁽⁴⁾ (see p. 82)	+ C401N/H/L (see p. 74) to C630N/H/L ST (see p. 82)	+ 1 plate with interlocking	44855
						+ 2 motor mechanisms T400/630 220/240 V ⁽³⁾ AC 50 Hz	2x 44976
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C400/C630	fixed RC	■	■	= C401N/H/L ⁽⁴⁾ (see p. 74) to C630N/H/L ST ⁽⁴⁾ (see p. 82)	+ C401N/H/L (see p. 74) to C630N/H/L ST (see p. 82)	+ 1 plate with interlocking	44855
						+ 2 motor mechanisms T400/630 220/240 V ⁽³⁾ AC 50 Hz	2x 44976
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C400/C630	plug-in FC RC	■	■	= C401N/H/L ⁽⁴⁾ (see p. 74) to C630N/H/L ST ⁽⁴⁾ (see p. 82)	+ C401N/H/L (see p. 74) to C630N/H/L ST (see p. 82)	+ 1 plate with interlocking	44855
						+ 2 motor mechanisms T400/630 220/240 V ⁽³⁾ AC 50 Hz	2x 44976
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C800N/H ST* C1000N/H ST* C1250N/H ST*	fixed FC	■	■	= C800N/H ST (see p. 86) or C1000N/H ST (see p. 88) or C1250N/H ST (see p. 90)	+ C800N/H ST (see p. 86) or C1000N/H ST (see p. 88) or C1250N/H ST (see p. 90)	+ 1 plate with interlocking	46947
						+ 2 motor mechanisms T800/1000/1250 220/240 V ⁽³⁾ AC 50 Hz	2x 46929
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C800N/H ST* C1000N/H ST* C1250N/H ST*	fixed RC	■	■	= C800N/H ST (see p. 86) or C1000N/H ST (see p. 88) or C1250N/H ST (see p. 90)	+ C800N/H ST (see p. 86) or C1000N/H ST (see p. 88) or C1250N/H ST (see p. 90)	+ 1 plate with interlocking	46947
						+ 2 motor mechanisms T800/1000/1250 220/240 V ⁽³⁾ AC 50 Hz	2x 46929
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C800N/H ST* C1000N/H ST* C1250N/H ST*	plug-in FC RC	■	■	= C800N/H ST (see p. 86) or C1000N/H ST (see p. 88) or C1250N/H ST (see p. 90)	+ C800N/H ST (see p. 86) or C1000N/H ST (see p. 88) or C1250N/H ST (see p. 90)	+ 1 plate with interlocking	46947
						+ 2 motor mechanisms T800/1000/1250 220/240 V ⁽³⁾ AC 50 Hz	2x 46929
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C800L ST* C1000L ST*	fixed FC	■	■	= C800L ST (see p. 86) or C1000L ST (see p. 88)	+ C800L ST (see p. 86) or C1000L ST (see p. 88)	+ 1 plate with interlocking	46947
						+ 2 motor mechanisms T800/1000/1250 220/240 V ⁽³⁾ AC 50 Hz	2x 46929
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890
C800L ST* C1000L ST*	fixed RC	■	■	= C800L ST (see p. 86) or C1000L ST (see p. 88)	+ C800L ST (see p. 86) or C1000L ST (see p. 88)	+ 1 plate with interlocking	46947
						+ 2 motor mechanisms T800/1000/1250 220/240 V ⁽³⁾ AC 50 Hz	2x 46929
						+ 1 automatism AC 50 Hz	220 V 44888 240 V 44891 380 V 44889 415 V 44890

manual source changeover

with mechanical interlocking













The manual source changeover with mechanical interlocking is composed of :

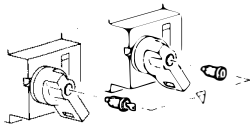
- 1 mechanical interlocking device
- 2 Compact.

The compact breakers are installed side by side, on panel or rails, without plate (for installation, see page 131).







It is necessary to equip each breaker with a **direct rotary handle**, for mounting of the mechanism which interlocks the handles. The rating, the trip units and the number of poles of the breakers can be different. On the other hand, the versions (fixed, plug-in, front or rear connected) must be identical.

		3P	4P	Normal	+ replacement	+ accessories	
C101 to C630N/H/L*	fixed FC			= C101 to C630N/H/L (see p. 60 to 82)	+ C101 to C630N/H/L (see p. 60 to 82)	+ 1 mechanical interlocking	44826
	fixed RC					+ 1 direct rotary handle per switch	
	plug-in FC RC					C101/C161 41310 C250 43820 C400/630 44820	
C800 to C1250N/H/L ST*	fixed FC			= C800 to C1250N/H/L ST (see p. 86 to 91)	+ C800 to C1250N/H/L ST (see p. 86 to 91)	+ 1 mechanical interlocking	46946
	fixed RC					+ 1 direct rotary handle per switch	

with key locks



This interlocking is easy set up by the addition, on each breaker, of the locking device, which can be equipped with 2 locks bearing the same key number. The one and only key will lock only one out of the breakers.

		3P	4P	Normal	+ replacement	+ accessories	
C101 to C1250N/H/L	fixed FC			= C101 to C1250N/H/L (see p. 60 to 82)	+ C101 to C1250N/H/L (see p. 60 to 82)	+ 1 direct rotary handle per switch	41310 43820 44820 46933
	fixed RC					+ 1 set of 2 keys locks (1 single key) :	
	plug-in FC RC					Ronis 1351.500 41950 Profalux KS5 B24 D4E 42878	

(1) It is possible to associate a TC160N with a TC160L, or to compose a 3 TC160N/L changeover. Consult us.
 (2) A 220/240 V AC automatism is available with time delay "voltage failure on Normal supply" 0.1 to 30 s : 42899
 (3) For 380 and 415 V, the adaptation resistor is included in the correspondent automatism.
 (4) To associate a Compact L type with a N or H type, (on fixed FC version only),..... on N or H type the part

switches 63 to 2500 A

for circuit control

coupling

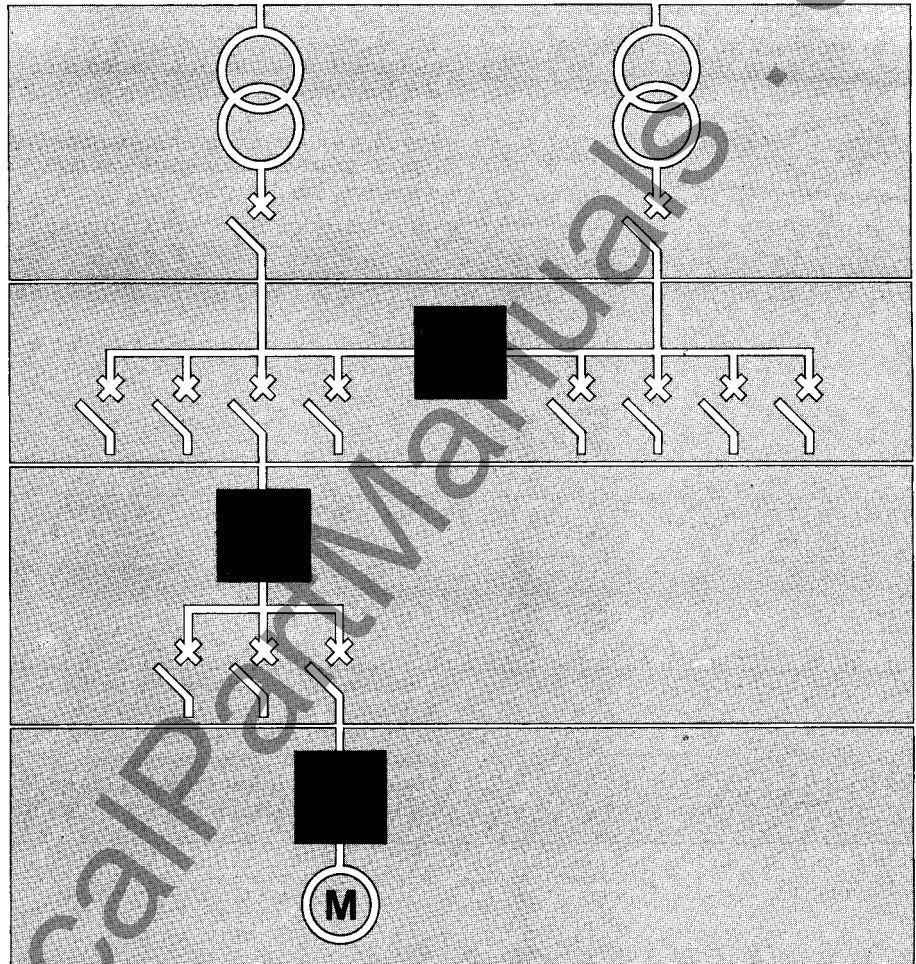
In the event of a normal supply failure, the switch enables the essential supply feeders, supplied via the standby source to be isolated from the non-essential side of the system.

distribution

As a main incomer of the secondary switchboard, where protection is provided upstream, the switch enables the secondary switchboard to be isolated.

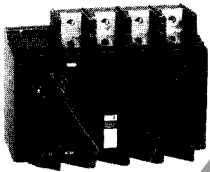
motor control

When fitted to the line side of the motor, the switch provides either local or remote isolation of the motor from the system, for maintenance purposes etc.



which switch should you choose ?

Interpact load break switches



A simple high performance switch specifically designed for isolation and control, the range comes complete with a full range of accessories which include:

- auxiliary contacts for on/off indication and control
- auxiliary for early break
- installation accessories
- 3 and 4 pole versions
- padlocking/changeover facility
- compliance with B.S. etc AC22/23 rated

IN63T to IN2500

Compact NI load break switches



A high performance switch utilising the Moulded Case Circuit Breaker technology and hence offering the advantages of a MCCB, i.e.:

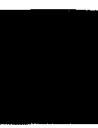
- O.F. auxiliary contact for on/off indication
- CAM switch for early break
- MX shunt trip and MN undervoltage releases
- Vigi module for earth fault protection, giving protection of the installation
- adaptable remote control facility
- available as source changeover system
- full range of installation accessories
- full range of connection accessories
- padlocking/changeover facility
- compliance with B.S. etc AC22/23 rated

C101NI to C1250NI

load break switches

4 switches, enclosures

	page
Interpact load break switches	98
Compact load break switches	104
Fupact fuse-switches	106
individual enclosures	108
Panelpact enclosures	110



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switches

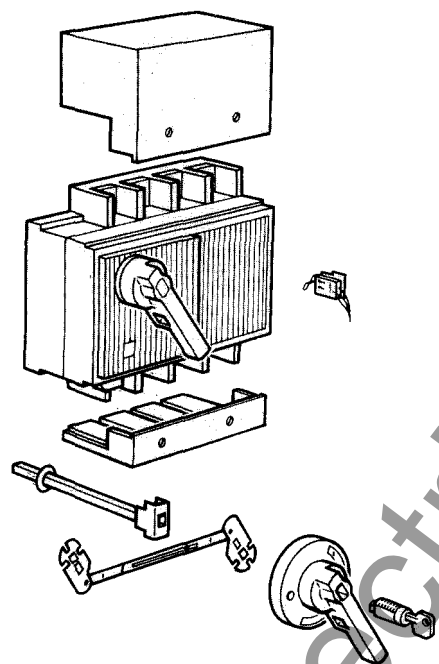
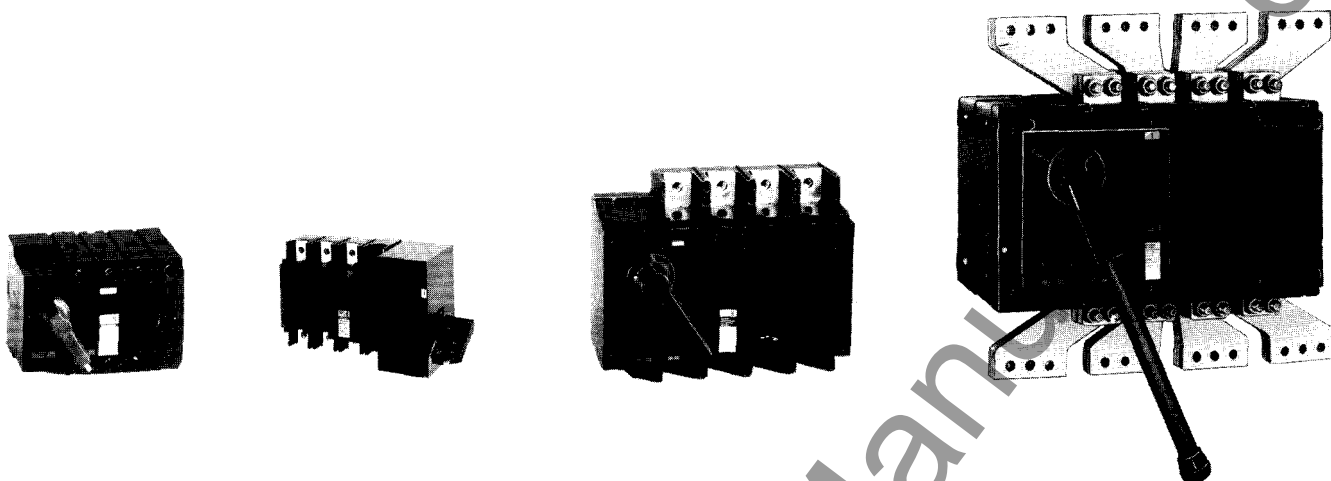
Interpact load break switches

IN63T to IN2500

description
characteristics

Characteristics
Dimensions
Part numbers

page 5
page 113
page 57



presentation

Interpact is a range of 63 to 2500 A, 3 or 4-pole switches, of moulded case construction with double break contact configuration.

They are used for control and isolation of distribution circuits:

- main switch,
- coupling,
- head of divisional switchboard,
- "motor" circuit control,
- local isolating device,
- etc.

The Interpact range can be fitted with auxiliaries such as:

- auxiliary contacts,
- installation accessories,
- connection accessories,
- etc. (for further details refer to following pages)

positive break indication

All Interpact devices provide isolation with positive break indication.

Their control handle can only indicate the "off" position if all the contacts are indeed open and a proper distance apart.

installation

Interpact switches are installed on a panel or on metal supports, and can operate in all positions.

Degree of protection

bare unit with terminal shields		IP405
unit in enclosure	direct ctrl	IP405
or cubicle with	extended ctrl	IP557

tropicalization

Interpact switches and their auxiliaries are tropicalized.

They comply with treatment 2 of the NF C63-100 standard;
relative humidity of 95 % at 45 °C, or
80 % at 55 °C (hot and wet climate).

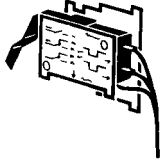
standards

- Interpact switches comply with:
- IEC 408 recommendations,
 - French Standard NF C63-130,
 - CENELEC Standard EN 60200.



auxiliaries and accessories

CAM switch



The CAM switch is a common point auxiliary changeover contact which, depending on how it is fitted, can provide :

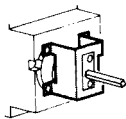
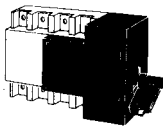
- either the **OF function**, connected with the Interpact "on" or "off" position,
- or the **CAM function**, for early break or early make (break only on IN63T).

Note : a block with 2 changeover contacts is also available for the IN400 to IN2500 (OF function only).

Possible combinations

Interpact	block 1 OF	block 2 OF	block CAM
IN63T			1
IN125T, IN160T, IN250	1		+ 1
IN400, IN630, IN1000, IN1600, IN2500	1	1	+ 1

Extended and lateral rotary handle



shaft bracket

Lateral rotary handle

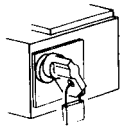
The standard direct rotary handle on Interpact IN63T to IN160T switches may be converted into a lateral direct rotary handle by an optional accessory kit.

Extended rotary handle (IP557) is obtained by adding to the standard rotary handle an accessory kit comprising :

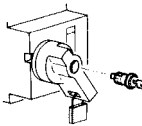
- an escutcheon to be fitted in front of the door to accommodate the handle,

- an extension shaft.
- The extended rotary handle does not alter the visible break indication function, and can be optionally fitted with :
- a **shaft bracket** to eliminate vertical play at the end of the shaft.
 - a **door latch** which only allows the door to be opened when the handle is in the "open" position.

Locking by padlocks or key lock



for IN63T to IN160T



for IN250 to IN2500

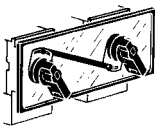
To lock the Interpact in the "open" position, the handle includes :

- a padlock fitting for 3 padlocks (not supplied) built into the toggle of all the Interpact devices (1 padlock only for IN63T);
- a pre-drilled location on the IN250 to IN2500 to fit 1 key lock (supplied on option), with a key held captive when the Interpact is in the "closed" position.

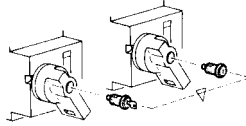
Locking possibilities

Interpact	padlock ∅ hasp (mm)	key lock type
IN63T to IN160T	5 to 8	without
IN250	5 to 8	Ronis 1351.500
IN400 to IN630	6 to 8	or Profalux
IN1000 to IN2500	5 to 8	KS5 B24 D4Z

Interlocking



mechanical interlocking



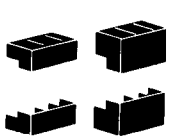
key locks interlocking

Mechanical interlocking

This interlocking equips the Interpact IN63T to IN630. It is achieved by a mechanism which connects the handles of 2 direct control Interpacts to constitute a manual source changeover. This device prevents both switches from being closed at the same time, but enables them to be opened.

Interlocking by key locks

This interlocking equips the Interpact IN250 to IN2500. It consists of equipping both the Interpacts with a standard interlock associating 2 key locks and a single key. This solution enables 2 geographically distant switches to be interlocked.



The terminal shields are sealable insulating accessories used to avoid direct contacts with live parts. Depending on the switch type, the Interpact can be fitted :

- either with short or long terminal shields,
- or with phase separators.

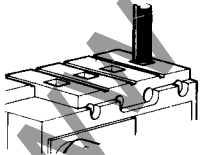
The terminal shields are always supplied with their sealing accessories.

Fitting possibilities

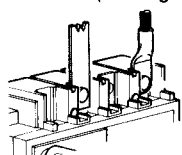
Interpact	term. shields short	term. shields long	phase separators
IN63T to IN160T		■	
IN250 to IN630	■	■	
IN1000 to IN2500			■

connection

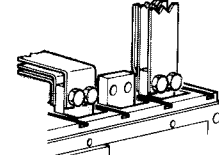
Direct connection IN63T bare cables



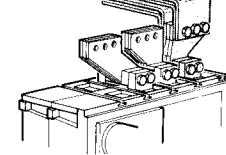
IN125 to IN630 bars or cables with crimped lugs



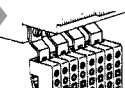
IN1000 and IN1600 bars



IN2500 bars



Connection with accessories Polybloc connectors for IN125T and IN160T



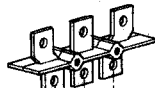
connectors for IN125T to IN630



angle terminals for IN125T to IN630



spreader for IN400 and IN630



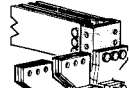
for IN1000 and IN1600



edgewise pads for IN1000 and IN1600



connectors for IN2500



switches

Interpact load break switches

IN63T to IN2500

characteristics



Description
Dimensions
Part numbers

page 5
page 113
page 57

Interpact		IN63T	IN125T	IN160T			
characteristics							
rated current (A) at 60°C		63	125	160			
rated service current (A)	AC 50/60 Hz cl. AC 22 (U ≤ 400 V)	63	125	160			
	cl. AC 23 (U ≤ 400)	63	125	160			
	DC cl. DC 23 (U ≤ 250) ⁽¹⁾	63	125	160			
rated voltage (V)	AC 50/60 Hz	660	660	660			
	DC	500	500	500			
number of poles		3, 4	3, 4	3, 4			
short circuit making current (kA peak)		15	20	20			
withstand current (kA rms for 1 s.)		2.5	5.5	5.5			
endurance (CO)	mechanical	15000	15000	15000			
	electrical at 415 V	1000	1000	1000			
protection							
upstream protection	Compact circuit breaker ⁽⁶⁾ (Isc max. = breaking capacity of the CB)	NC100 C101N C161N	C161N/L	C161N/H/L			
	aM type fuse ⁽²⁾ max. (A)	63	125	125			
	Isc max. (kA rms)	50	50	50			
	g1 type fuses max. (A)	80	160	160			
	Isc max. (kA rms)	50	50	50			
auxiliaries and accessories							
adaptable auxiliaries	OF switches	■	■	■			
	CAM switch	■	■	■			
adaptable auxiliaries	terminal shields	■	■	■			
	connection accessories	■	■	■			
	padlocking device	■	■	■			
	locking device	■	■	■			
	extended rotary handle	■	■	■			
	mechanical interlocking	■	■	■			
key lock interlocking							
installation							
version	connection	FC	FC	RC	FC	RC	
	fixed	■	■	■	■	■	
overall dimensions (mm)		H	W	D	H	W	D
	3P	85	120	105	128	170	105
	4P	85	120	105	128	170	105
weight (kg)	3P	0.75			1.4		
	4P	0.80			1.5		

(1) Number of poles having to perform the break :
1 at 48 V, 2 at 125 V, 4 at 250 V.

(2) aM fuses must be systematically associated by a thermal release.

(3) Phase separators.

(4) With no time delayed trip unit.

IN250			IN400			IN630			IN1000 ①			IN1600 ①			IN2500 ①		
250			400			630			1000			1600			2500		
250			400			630			1000			1600			2500		
250			400			500			630								
250			400			630			1000			1600					
660			660			660			660			660			660		
500			500			500			500			500			500		
3, 4			3, 4			3, 4			3, 4			3, 4			3, 4		
30			40			50			75			75			105		
8.5			12			25			35			35			50		
10000			10000			10000			1500			1500			1500		
1000			1000			1000			500			250			250		
C250N/H/L			C401N C400N ST			C630N/H C630N/H ST			C800N/H ST ⁽⁵⁾ C1000N/H ST ⁽⁵⁾ C1250N/H ST ⁽⁵⁾ C800/C1000L ST ⁽⁷⁾			C1000N/H ST ⁽⁵⁾ C1250N/H ST ⁽⁵⁾ C1000L ST ⁽⁷⁾ Compact CM ^{(4) (5)}			Compact CM ^{(4) (5)}		
250			400			500											
100			100			100											
315			500			630											
100			100			100											
■			■			■			■			■			■		
■			■			■			■ ⁽³⁾			■ ⁽³⁾			■ ⁽³⁾		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
■			■			■			■			■			■		
FC		RC	FC		RC	FC		RC	FC			FC			FC		
■		■	■		■	■		■	■			■			■		
H	W	D	H	W	D	H	W	D	H	W	D	H	W	D	H	W	D
170	230	151	230	280	170	230	280	170	300	340	200 ①	300	340	200 ①	440	340	311.5 ①
170	230	151	230	280	170	230	280	170	300	410	200	300	410	200	440	410	311.5
2.7			4.3			4.8			12 ①			15 ①			35 ①		
2.8			4.7			5.3			15			18			45		

switches
Interpact load break switches
IN63T to IN2500






















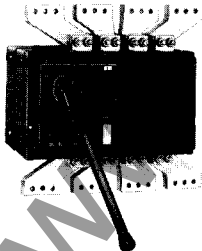

part numbers

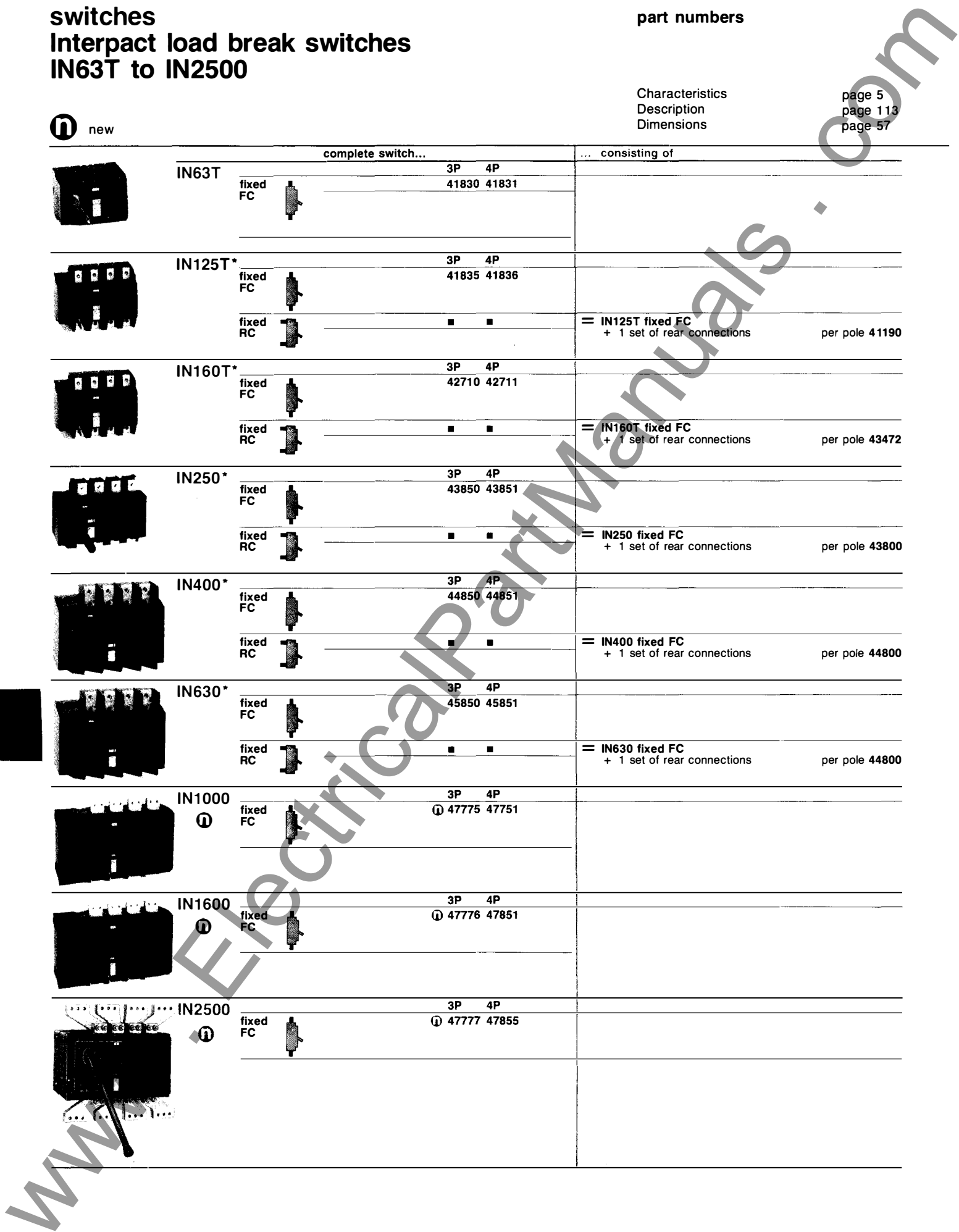
Characteristics
Description
Dimensions

page 5
page 113
page 57




new

		complete switch...	... consisting of		
	IN63T		3P	4P	
		fixed FC 	41830	41831	
	IN125T*		3P	4P	
		fixed FC 	41835	41836	
		fixed RC 	■	■	= IN125T fixed FC + 1 set of rear connections per pole 41190
	IN160T*		3P	4P	
		fixed FC 	42710	42711	
		fixed RC 	■	■	= IN160T fixed FC + 1 set of rear connections per pole 43472
	IN250*		3P	4P	
		fixed FC 	43850	43851	
		fixed RC 	■	■	= IN250 fixed FC + 1 set of rear connections per pole 43800
	IN400*		3P	4P	
		fixed FC 	44850	44851	
		fixed RC 	■	■	= IN400 fixed FC + 1 set of rear connections per pole 44800
	IN630*		3P	4P	
		fixed FC 	45850	45851	
		fixed RC 	■	■	= IN630 fixed FC + 1 set of rear connections per pole 44800
	IN1000	①	3P	4P	
		fixed FC 	① 47775	47751	
	IN1600	①	3P	4P	
		fixed FC 	① 47776	47851	
	IN2500	①	3P	4P	
		fixed FC 	① 47777	47855	



electrical auxiliaries

auxiliary contacts

	1 OF or CAM	
	IN63T to IN160T	41843
	IN250 to IN2500	42906
	2 OF	
	IN400 to IN2500	47757

accessories


direct rotary handle

	with black toggle	built-in
	red toggle	
	IN63T	41847
	IN125T/IN160T	41848
	IN250	44847
	IN400/IN630	45859

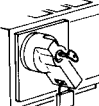
lateral rotary handle

	with black toggle	
	IN63T	41826
	IN125T/160T	41827
	red toggle only	
	IN63T	41822
	IN125T/160T	41824

accessories for converting direct handle to extended handle

	IN63T to IN160T	41839
	IN250 to IN630	45853
	IN1000 to IN1600	47753
	IN2500	47763
	for lateral rotary handle	
	IN125T/IN160T	41825

locking of the toggle

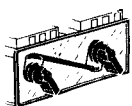
	by 3 padlocks (1 padlock on IN63T)	built-in
	by key lock (in open and closed position) for IN250 to IN2500	
	1 Ronis key lock 1351.500	41940
	1 Profalux key lock K25 B24 D4Z	42888

door locking for switch in closed position (only for extended rotary handle)


	IN63T to IN160T	41840
	IN250 to IN2500	47754

mechanical interlocking (only for direct rotary handle)



	IN63T to IN160T	41846
	IN250 to IN630	45856




key lock interlocking for IN250 to IN2500

	1 set of 2 Ronis 1351.500 key locks (1 single key)	41950
	1 set of 2 Profalux KS5 B24 D4Z key locks (1 single key)	42878

sealable terminal shields

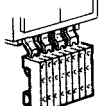
	short term. shields (1 set)	
	IN250	3P/4P 43830
	IN400/IN630	3P/4P 44830
	long term. shields (1 set)	
	IN63T	3P/4P 41841
	IN125T/IN160T	3P/4P 41842
	IN250	3P/4P 43832
	IN400/IN630	3P/4P 44832

phase separators (1 set)

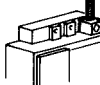
	IN1000/IN1600	3P/4P 47756
	IN2500	3P/4P 47860

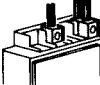
connection

Polybloc terminal (for bare cables)

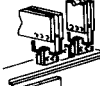
	IN125T/IN160T	
	6 cables $S \leq 10$	07100

connectors for bare cables



	IN63T	
	$S \leq 35$	built-in
	IN125T	
	$16 \leq S \leq 70$	per pole 41838
	IN160T	
	$16 \leq S \leq 95$	per pole 42715
	IN250T	
	$16 \leq S \leq 185$	per pole 43813
	extension of rear connections (compulsory when spacing supports)	per pole 43848

	IN400/IN630	
	single connector	per pole 44813
	(1 cable $S \leq 300$)	
	double connector	per pole 44814
	(2 cables $S \leq 240$)	


complementary pads for bars

	edgewise pads	
	IN1000	per pole 47758
	IN1600	per pole 47858

spreader


	IN400/IN630	3P 44841
		4P 44842
	IN1000 (1 set)	3P 47760
		4P 47761
	IN1600 (1 set)	3P 2 x 47760
		4P 2 x 47761

connectors

	IN2500	1 piece 55675
---	--------	---------------

spare parts

black toggle (for direct rotary handle)

	IN63T	41844
	IN125T/IN160T	41845
	IN250	44846
	IN400/IN630	45858
	IN1000/IN1600	47759
	IN2500	47862

switches

Compact load break switches

C101NI to C1250NI

characteristics



description
dimensions

page 10
page 113

Compact									
characteristics									
load break switch		C101NI Ⓞ	C161NI	TC160NI	C250NI	C401NI Ⓞ	C630NI	C800NI	C1250NI
rated current	(A) at 40 °C	125	160	180	280	440	700(3)	800	1380
	cl. AC 23(1) or DC 23(1)(2) (A) at 60 °C	100	160	160	250	400	630(3)		1250
rated voltage (V)	AC 50/60 Hz	660	660	660	660	660	660(3)	660	660
	DC(2)	500	500	500	500	500	500	500	500
number of poles		2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	3, 4	3, 4	3, 4
short circuit make current (kA peak)		3,5	3,5	6,5	6,5	9	13	20	30
withstand current	kA rms	2,5	2,5	4,6	4,6	6	7,5	10	15
	for(s)	3	3	3	3	3	10	8	8
endurance (CO)	mechanical	15000	15000	15000	10000	10000	10000	10000	10000
	electrical at 415V	5000	5000	6000	3000	1000	1000	1000	1000
degree of protection		with terminal shields: IP40 - In enclosures: IP55							
protection									
by N/H/L Compact circuit-breaker (ICC max. = breaking capacity of the CB)		C101 C161 C250	C161	C161	C250	C401 C400 ST	C630 C630 ST	C800 C1000 ST C1250 ST	C1250 ST
by fuses (Isc max. = 100 kA rms)	aM type(4) max. (A)	250	250	315	500	500	630	1250	1250
	gl type max. (A)	315	315	400	630	630	800	1600	1600
models									
with adaptable elements	Vigicompact NI ELCB	■	■	■	■	■	■	(3)	(3)
	autom. source changeover	■	■	■	■	■	■	■	■
	manual source changeover	■	■	■	■	■	■	■	■
auxiliaries and accessories									
adaptable auxiliaries	auxiliary switch (OF, CAM)	■	■	■	■	■	■	■	■
	alarm switch (SD)	■	■	■	■	■	■	■	■
	voltage release (MX) or (MN)	■	■	■	■	■	■	■	■
	motor mechanism	■	■	■ built-in	■	■	■	■	■
adaptable accessories	terminal shields	■	■	■	■	■	■	■	■
	connection accessories	■	■	■	■	■	■	■	■
	padlocking device	■	■	■	■	■	■	■	■
	locking device	■	■	■	■	■	■	■	■
	rotary handle	■	■	■	■	■	■	■	■
installation									
versions	connection	FC	RC	FC	RC	FC	RC	FC	RC
	fixed	■	■	■	■	■	■	■	■
	plug-in	■	■	■	■	■	■	■	■
dimensions		same as for Compact CB (see p. 113)							

(1) According to IEC standards, AC 21, AC 22 and AC 23 classes are corresponding to a normal operating in alternative current, and DC 21, DC 22 and DC 23 to a normal operating in direct current.

(2) Number of pole having to perform the break:



Description
Dimensions

		complete switch...	...consisting of:						
C101NI*	fixed FC	<table border="1"> <tr> <td>2P</td> <td>3P</td> <td>4P</td> </tr> <tr> <td>39702</td> <td>39703</td> <td>39704</td> </tr> </table>	2P	3P	4P	39702	39703	39704	
	2P	3P	4P						
	39702	39703	39704						
fixed RC	■ ■ ■		= C101 NI fixed FC + 1 set of rear connections(1) per pole 39998						
plug-in FC RC	■ ■ ■		= C101 NI fixed FC + 1 set of plugs per pole 39985 + 1 plug-in base FC/RC 2P 39972 3P 39973 4P 39974 + 1 set of short term. shields 2P/3P 39983 4P 39984						
C161NI*	fixed FC	40902 40903 40904							
	fixed RC	■ ■ ■	= C161 NI fixed FC + 1 set of rear connections per pole 41190						
	plug-in FC RC	■ ■ ■	= C161 NI fixed FC + 1 set of plugs per pole 41194 + 1 plug-in base FC/RC 2P 41195 3P 41196 4P 41197 + 1 set of short term. shields 2P/3P 42960 4P 42961						
TC160NI*	fixed FC	■ ■ ■	= TC160NI without MT module and release, fixed FC 2P 42570 3P 42571 4P 42572 + 1 switch module 2P/3P 42405 4P 42406 + 1 MT module 220/240V AC 42951 (other voltages, see page 69)						
	fixed RC	■ ■ ■	= TC160NI fixed FC + 1 set of rear connections per pole 42450						
	plug-in FC RC	■ ■ ■	= TC160NI fixed FC + 1 set of plugs per pole 42452 + 1 plug-in base FC/RC 2P 42457 3P 42458 4P 42459 + 1 set of short term. shields 2P/3P 42960 4P 42961 + 1 3-terminal block moving part 42944 fixed part 42940						
C250NI*	fixed FC	43325 43326 43327	= C250NI without release, fixed FC 2P 43001 3P 43002 4P 43003 + 1 switch module 2P/3P 43323 4P 43324						
	fixed RC	■ ■ ■	= C250NI fixed FC + 1 set of rear connections per pole 43800						
	plug-in FC RC	■ ■ ■	= C250NI fixed FC + 1 set of plugs per pole 43802 + 1 plug-in base FC/RC 2P 43809 3P 43810 4P 43811 + 1 set of short term. shields 2P/3P 43829 4P 43830						
C401NI*	fixed FC	44792 44793	= C401NI without release, fixed FC 3P 44661 4P 44662 + 1 switch module 3P 45375 4P 45376						
	fixed RC	■ ■ ■	= C401NI fixed FC + 1 set of rear connections per pole 44800						
	plug-in FC RC	■ ■ ■	= C401NI fixed FC + 1 set of plugs(1) per pole 44802 + 1 plug-in base FC/RC 3P 44810 4P 44811 + 1 set of short term. shields 3P 44829 4P 44830						
C630NI*	fixed FC	45379 45380	= C630NI without release, fixed FC 3P 45002 4P 45003 + 1 switch module 3P 45375 4P 45376						
	fixed RC	■ ■ ■	= C630NI fixed FC + 1 set of rear connections per pole 44800						
	plug-in FC RC	■ ■ ■	= C630NI fixed FC + 1 set of plugs per pole 44802 + 1 plug-in base FC/RC 3P 44810 4P 44811 + 1 set of short term. shields 3P 44829 4P 44830						
C800NI*ST C1250NI*ST	fixed FC	C800NI 46025 46026 C1250NI 46028 46029							
	fixed RC	■ ■ ■	= C800 NI or C1250 NI fixed FC + 1 rear connections 1 piece 46958						
	plug-in FC RC	■ ■ ■	= C800NI or C1250NI fixed FC + 1 moving chassis 3P 46981 4P 46982 + 1 fixed chassis FC/RC 3P 46984 4P 46986 + pads flat 1 piece 46990						

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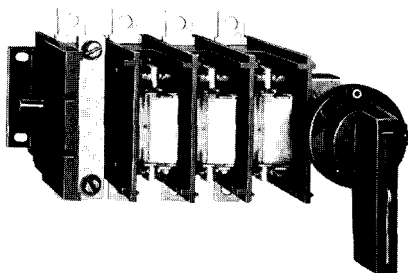
switches

Fupact fuse-switches UC50 to UD630T

description,
characteristics

Dimensions

page 113



application

The Fupact fuse-switches are designed for:

- the control, protection and isolation of switching of highly inductive loads (transformers, capacitors...);
- the protection and isolation of motor control circuits. They are used in all AC and DC circuits at voltages up to 660 V.

Operation

The Fupact switching technology offers optimum safety:

- Fupact fuse switches, unlike fuse-disconnectors, are suitable for ON-LOAD operation.
- the Fupact's are fixed-mounted and isolation is provided on both the line and the load sides of the fuses. The fuses are therefore isolated when the switch is open.

Positive contact indication

The handle can only indicate the OFF position if all the contacts are actually open. With its guaranteed contact separation, the Fupact affords maximum safety.

models

The Fupact range includes:

- 2 items for cylindrical fuses (UC50 and UC125),
 - 6 items from 63 to 630 A for fuses of DIN type (UD63-UD125-UD160-UD250T-UD400T-UD630T).
- Number of poles:
- 3 poles with 3 fuses;
 - 4 poles with 3 fuses, neutral broken and unprotected (provided link);
 - 4 poles with 4 fuses (except UD63).

standards

Fupact fuse-switches comply with international IEC standard 408, with British Standard BS 5419, German standard VDE 0660, VDE 0113, Det Norske Veritas, AS 1775-1975, UL 512.

approvals

UL and ASTA certified (UD 160 to 400 pending) Lloyd's Register of Shipping, Germanische Lloyd's, Register of Shipping of the USSR.

tropicalization

All climates (treatment 2).

characteristics (IEC 408)

Fupact fuse-switch			UC50	UD63	UC125	UC125	UD160	UD250T	UD400T	UD630T
fuse size			14 x 51	DIN 00	22 x 58	DIN 00	DIN 00 ⁽¹⁾	DIN 1	DIN 2	DIN 3
rated current AC 22 (A)	without stricker	40°C	50	63	125	125	160	250	400	630
		60°C	40	50	100	100	128	200	320	504
vertical installation	with stricker	40°C	37	47	94	94	120	188	296	472
		60°C	28	38	75	75	96	150	224	378
horizontal installation	without stricker	40°C	45	57	112	112	144	224	360	567
		60°C	36	45	90	90	115	180	288	454
	with stricker	40°C	34	42	78	78	108	156	272	425
		60°C	27	34	67	67	86	134	216	340
rated current AC 23 (A)	380-415-440-500 V 660 V		50	63	115	115	125	250	400	630
			45	40	63	63	63	250	400	630
rated voltage (V) AC 50/60 Hz ⁽⁴⁾			660	660	660	660	660	660	660	660
rated isolation voltage (V)			750	750	750	750	750	750	750	750
rated fuses short-circuit capacity at 500 V (kA)			50	50	100	100	100 ⁽²⁾	100	100	80
breaking capacity AC 23 (A)	380-415-440-500 V 660 V		500	500	800	800	800	3200	3200	4500
			350	350	500	500	500	3200	3200	4500
breaking capacity DC (A) L/R ≤ 15 ms	110 V (2 poles in series)		300	300	500	500	500	1600	1600	3200
	200 V (2 poles in series)		250	250	400	400	400	1200	1600	2000
operational power AC 23 (kW)	380 V		22	30	55	55	60	130	210	315
	415 V		30	30	60	60	65	140	230	340
	500 V		30	30	75	75	80	170	280	400
	660 V		30	30	55	55	55	230	330	540
mechanical endurance (CO)			10000	10000	7500	7500	7500	5000	5000	3000
weight without fuse (kg)	3P 3 fuses		1.6	1.6	1.8	1.8	1.8	6.9	7.8	15.5
	4P 4 fuses		1.9	1.9	2.3	2.3	2.3	7.9	8.8	19
auxiliary switches			breaking capacity thermal rating							
			4 A at 415 V AC11; 1 A at 115 V DC11 10 A							



part numbers

Fupact with standard handle and short shaft (without fuses)	Fupact type	3P 3 fuses	4P 3 fuses(1)	4P 4 fuses
	UC50	49001	49002	49003
	UD63	49004	49005	–
	UC125	49006	49007	49008
	UD125	49009	49010	49011
	UD160	49012	49013	49014
	UD250T	49210	49211	49212
	UD400T	49216	49217	49218
	UD630T	49219	49220	49221

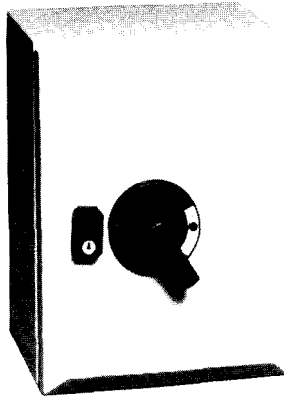
accessories et auxiliaries

		3P 3 fuses	4P 3 fuses(1)	4P 4 fuses
fuse cover (compulsory when the fuse-switch is mounted without door or escutcheon)	UC50	49024	49025	49025
	UD63	49026	49027	–
	UC125-UD125-UD160	49028	49029	49029
	UD250T	49237	49237	49247
	UD400T	40238	49238	49248
	UD630T	49250	49251	49251
blown fuses indicating device for fuse with striker	UD50	49057	49058	49058
	UC125	49059	49060	49060
	UD250T	49080	49081	49082
	UD400T	49083	49084	49085
	UD630T	49086	49087	49088
terminal shields (for one side)	UC125-UD125-UD160	49034	49035	49035
	UD250T (per pole. 49257)	3 × 49250	4 × 49255	4 × 49255
	UD400T (per pole. 49257)	3 × 49257	4 × 49257	4 × 49257
	UD630T (per pole. 49257)	3 × 49257	4 × 49257	4 × 49257
auxiliary switches	UC50-UD63		1 OF 49056	2 OF 49040
	UC125-UD125-UD160		1 OF 49041	2 OF 49042
	UD250T-UD400T-UD630T		1 OF 49089	2 OF 49090
auxiliary switch cover	UC50-UD63			49045
	UC125-UD125-UD160			49046
	UD250T-UD400T-UD630T			included with OF contacts
long shaft fort extended rotary handle	UC50-UD63-UC125			49048
	UD125-UD160			
neutral link and its support	UD250T-UD400T-UD630T			49245
	UD50-UD63			49273
	UC125-UD125-UD160			49274
	UD250T-UD400T			49275
	UD630T			49276
locking device (key lock not supplied)	UD250T-UD400T-UD630T			49053
black toggle	UC50-UD63-UC125			49054
	UD125-UD160			
	UD250T-UD400T-UD630T			49055

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individual enclosures weatherproof metal enclosures

description, characteristics
part numbers
dimensions



description

Weatherproof metal enclosures are available for the following circuits breakers:

- Compact and Vigicompact C101N to C1250N as well as their variations, all types of trip unit, in fixed front connected version;
 - Interpact IN63T to IN630.
- The weatherproof metal enclosures include:
- a plate equipped for the mounting of fixed front connected, two, three or four pole circuit-breakers;
 - a door cutout for the fixing of the rotary handle.

characteristics

Degree of protection: IP 55.
1.5 mm thick electro-zinc coated steel sheet.
Beige epoxy powder painting.
Cable entry through removable bottom plate.
Secured by 4 holes on the back or by external fixing lugs (supplied).

control and locking

Compact C101N to C630N ST

Vigicompact C101N to C630N ST

- direct rotary handle actuated through the door, with watertight escutcheon;
- locking of the breaker in « OFF » position by 3 padlocks (not supplied).

Available on request:

- locking of the breaker in « OFF » position with a Ronis lock 1351.500 or a Profalux lock KS5 B24 D4Z.

Compact C800 to C1250N ST

- waterproof extended rotary handle;
- locking of the breaker in « OFF » position by 3 padlocks (not supplied).
- locking of the door when the breaker is in « ON » position.

Interpact IN63T to IN630

- extended rotary handle;
- locking of the switch in « OFF » position by 3 padlocks, not supplied (only one padlock for IN63T).

Available on request:

- locking of the switch in « OFF » position with a Ronis lock 1351.500 or a Profalux lock KS5 B24 D4Z (except IN63T, IN125T, IN160T).
- locking of the door when the switch is in « ON » position.

part numbers

metal enclosures		including:				
for Compact C101N to C630N	C101N	C161N	C250N	C400N	C630N	<ul style="list-style-type: none"> ■ empty enclosure with plate and drilled door, ■ 1 direct rotary handle, ■ 1 watertight escutcheon for rotary handle, (to complete with Compact 2P, 3P, 4P, fixed FC)
	39960	41932	43990	44990	45990	
for Vigicompact C101N to C630N	C101N	C161N	C250N	C400N	C630N	<ul style="list-style-type: none"> ■ empty enclosure with plate and drilled door, ■ 1 direct rotary handle, ■ 1 watertight escutcheon for rotary handle, (to complete with Vigicompact 3P, 4P, fixed FC)
	39959	41933	43991	44991	44991	
for Compact C800 to C1250N ST	C800N	C1000N	C1250N			<ul style="list-style-type: none"> ■ empty enclosure with plate and drilled door, ■ 1 extended rotary handle (front door mounted), ■ accessories for watertight rotary handle, (to complete with Compact 3P, 4P, fixed FC)
	46888	46888	46888			
for Interpact IN63T to IN630	IN63T	IN125T	IN250	IN630	<ul style="list-style-type: none"> ■ empty enclosure with plate and drilled door, ■ accessories for converting direct to extended rotary handle (to complete with Interpact 3P, 4P, fixed FC) 	
	41853	41856	43843	44941		
for Fupact	consult us					

accessories

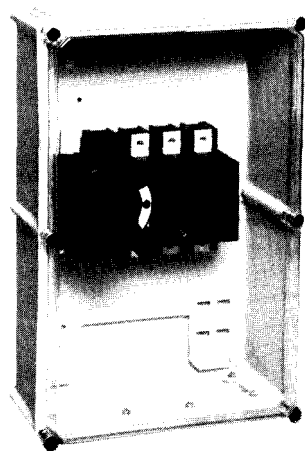
locks for rotary handle, switch in « OFF » position	by 3 padlocks (1 padlock for IN63T), padlock not included	built-in
	by keylocks for C101N to C1250 and Interpact IN250 to IN400	1 Ronis key lock 1351.500 41940
		1 Profalux key lock KS5 B24 D4Z 42888
		Interpact IN63T to IN160T 41840
		Interpact IN250 to IN630 45854

dimensions (mm)

	direct rotary handle			Vigicompact		extended rotary handle		Interpact		
	Compact C101N C161N	C250N C400N	C630N	C101N C161N	C250N to C630N	Compact C800N ST	C1000N ST C1250N ST	IN63T	IN125T IN160T	IN250 to IN630
H	400	600	800	500	800	825	800	400	400	600
W	300	400	600	400	600	550	600	300	300	400
D	200	200	275	200	275	275	275	150	150	200

individual enclosures weatherproof polyester enclosures

description, characteristics
part numbers
dimensions



description

Weatherproof polyester enclosures are available for the following circuits breakers:

- Compact and Vigicompact C101N to C1250N as well as their variations, all types of trip unit, in fixed front connected version;

- Interpact IN63T to IN630.

The weatherproof polyester enclosures include:

- a plate equipped for the mounting of fixed front connected, two, three or four pole circuit-breaker;
- a door cutout for the fixing of the rotary handle.

characteristics

Degree of protection: IP 55.

Beige polyester.

Shockproof and corrosionproof.

The screwed transparent cover can be fitted with lead seals.

Cable entry through removable bottom and top plates.

Secured by 4 holes on the back.

control and locking

Compact C101N to C630N

Vigicompact C101N to C630N ST

- extended rotary handle;
- locking of the breaker in « OFF » position by 3 padlocks (not supplied).
- locking of the cover when the breaker is in « ON » position.

Available on request:

- locking of the breaker in « OFF » position with a Ronis lock 1351.500 or a Profalux lock KS5 B24 D4Z.

Interpact IN63T to IN630

- extended rotary handle;
- locking of the switch in « OFF » position by 3 padlocks not supplied (only one padlock for IN63T).

Available on request:

- locking of the switch in « OFF » position with a Ronis lock 1351.500, or a Profalux lock KS5 B24 D4Z (except IN63T, IN125T, IN160T).
- locking of the cover when the switch is in « ON » position.

part numbers

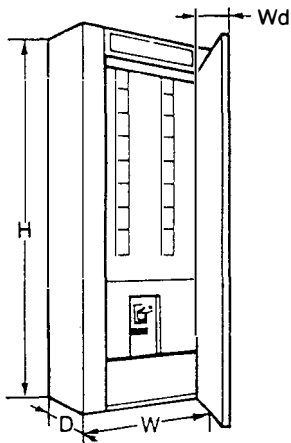
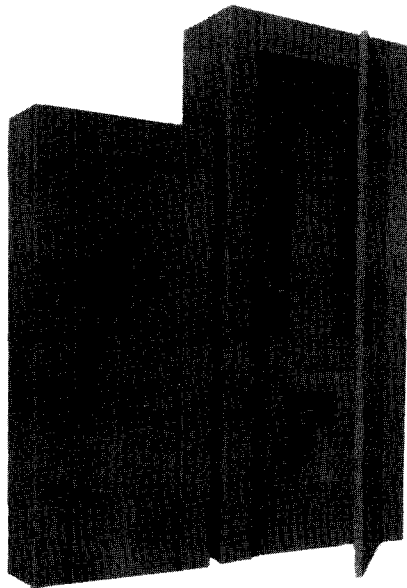
polyester enclosures		including:				
for Compact C101N to C630N	C101N	C161N	C250N	C400N	C630N	<ul style="list-style-type: none"> ■ empty enclosure with plate and drilled door, ■ 1 direct rotary handle, ■ 1 watertight escutcheon for rotary handle, (to complete with Compact 2P, 3P, 4P, fixed FC)
	39958	42987	43995	44995	44995	
	for Vigicompact C101N to C630N					
for Interpact IN63T to IN400	IN63T	IN125T	IN250	IN400	IN630	<ul style="list-style-type: none"> ■ empty enclosure with plate and drilled door, ■ accessories for converting direct to extended rotary handle, (to complete with Interpact 3P, 4P, fixed FC)
	IN161T					
	41858	41859	43844	44942		

accessories

locks for rotary handle, switch in « OFF » position	by 3 padlocks (1 padlock for IN63T), padlocks not included	built-in
	by keylocks for C101N to C630N , and Interpact IN250 to IN400	1 Ronis key lock 1351.500 1 Profalux key lock KS5 B24 D4Z
door locking, switch in closed position	Interpact IN63T to IN160T	41840
	Interpact IN250 to IN630	45854

dimensions (mm)

	Compact			Vigicompact		Interpact IN63T	IN125T IN160T	IN250	IN400 IN630
	C101N C161N	C250N	C400N C630N	C101N C161N	C250N to C630N				
H	360	540	720	540	720	270	360	540	720
W	270	270	360	270	360	270	270	360	360
D	235	235	235	235	235	185	185	185	185



presentation

Panelpact mccb's distribution boards are enclosures designed for the installation of several Compact circuit-breakers. They are available in five sizes with 6 to 22 ways and in two types :

- C1 for incoming breaker up to 800A,
 - C2 for incoming breakers up to 1000A.
- Standards : Pnapeact complies wit IEC 439-1. 1985 and BS 5486. part 1. 1977.

characteristics

Electrical characteristics :

- rated insulation voltage : 660 V AC - 500 V DC.
- rated frequency : 50/60 Hz.

type	C1	C2
current of busbars maximum rated (A)	800	1000
rated short-time withstand (kA rms/1s)	35	50
rated peak withstand (kA)	75	105
rated conditional short-circuit (kA rms)	50	70

Enclosure

■ Panelpact mccb distribution boards are **totally enclosed, dust protected and vermin proof**. The degree of protection of the standard enclosure is **IP 31 for indoor installation**. The pan assembly can be fitted in an **IP 55 enclosure for outdoor installation**.

- the enclosure is manufactured from **2 mm thick** electro-zinc coated sheet steel, with beige RAL 1019 epoxy polyester powder finish.

■ a hinged door fitted with lock and key has to be opened for operating the switchgear. Access to the cabling space and to the switchgear is obtained by removing a front cover bolted with **quarter-turn fasteners**.

- ample wiring space is available in compliance with recommendations of cable manufacturers. Detachable blank gland plates are provided at the top and bottom.
- when necessary for handling, lifting lugs are available on request.

Pan assembly

■ the pan assembly is a completely independent unit that can be taken out of the enclosure, for maintenance purposes for example.

- all components are mounted on a strong chassis consisting of 2 mm thick electro-zinc coated folded sheet steel.
- busbars are made of hard drawn high conductivity copper (cross section : 264 mm² (C1) - 480 mm² (C2) and full neutral is included, when required. Busbars supports are designed to withstand the maximum mechanical stresses under fault conditions. They are made of moulded polyphenylene oxide (Noryl) (resistance to heat : 130°C and dielectric strength : 220 kV/cm).

Derating

Panelpact is **suitable for use at 50°C**.

dimensions

type	C1					C2				
	6	10	14	18	22	6	10	14	18	22
size (ways)	6	10	14	18	22	6	10	14	18	22
H	1260	1470	1680	1890	2100	1260	1470	1680	1890	2100
W	650	650	650	650	650	850	850	850	850	850
D	250	250	250	250	250	325	325	325	325	325
Wd	400	400	400	400	400	600	600	600	600	600

www.ElectricalMarket.com

Panelpact C1 type

Incoming device

Maximum : 800 A

Part numbers of accessories for incoming devices :

C250N	49715
C401N/C400N ST	49716
C630N/C630N ST	49716
C800N ST	49717
IN250	49718
IN401/IN630	49719
lugs	49720

Outgoing devicesCircuit-breakers possible :
Compact C100E and C100NF.**Necessary ways :**

1×C100E/NF 3P=3×C100E/NF 1P=1 way

Part numbers of cubicle and neutral system :

sizes	cubicle	neutral system
6 ways	49721	49511
10 ways	49722	49512
14 ways	49723	49513
18 ways	49724	49514
22 ways	49725	49515

Panelpact C2 type

Incoming device

Maximum : 1000 A

Part numbers of accessories for incoming devices :

C401N/C400N ST	49700
C630N/C630N ST	49700
C800N ST/C1000N ST	49701
IN401/IN630	49702
IN1000	49703
lugs	49704

Outgoing devicesCircuit-breakers possible :
Compact C100E/NF-C161N-C225E-C250N.**Necessary ways :**

The number of ways occupied by each device is indicated in the following table.

Part numbers of connections and accessories for upstream devices :

C100NF	1P	1 way	49536
C100E/NF	3P	1 way	49536
C161N	3P	1 way	49537
C225E	3P	1 way	49538
C250N	3P	2 ways*	49600

*** maximum :**

2 × C250N in a 6 or 10 way Panelpact

4 × C250N in a 14 way Panelpact

6 × C250N in a 18 or 22 way Panelpact

Parts numbers of cubicle and neutral system :

sizes	cubicle	neutral system
6 ways	49705	49516
10 ways	49706	49517
14 ways	49707	49518
18 ways	49708	49519
22 ways	49709	49520

options

Base

	C1	C2
H 210 mm	49593	49594

Blanking plate

H 85 mm, L 120 mm	07348
-------------------	-------

Part numbers of neutral adjacent to breakers :

sizes	C1	C2
6 ways	49521	49526
10 ways	49522	49527
14 ways	49523	49528
18 ways	49524	49529
22 ways	49525	49530

Parts numbers of outgoing terminals extension :

sizes	terminal (set of 2)
70 mm ²	49533
70 mm ²	49534
70 mm ²	49535

www.ElectricalPartManuals.com

**low voltage mccb's
low voltage switches
Compact
Interpact**

**5 dimensions
tripping curves**

	page
C100E to C600E	114
C100NF, F150N	115
C101N/H/L/NI	116
C161N/H/L/NI	118
C250N/H/L/NI	120
C401/C630N/H/L/NI	122
C400/C630N/H/L ST	
C800/C1000/C1250N/H/L/NI	124
chassis for withdrawable CB	126
rotary handles	127
remote control	128
changeover TC160N/L, C250 to C1250N/H/L	130
Interpact IN63T to IN2500	132
Fupact UC50 to UD630T	135
tripping curves	136

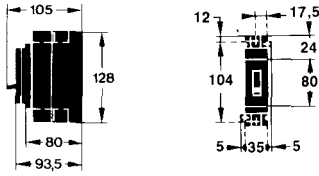
www.ElectricalPartMarket.com



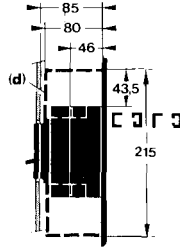
dimensions C100NF/F150N

Compact C100NF

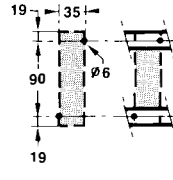
Fixed equipment



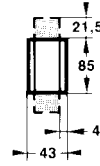
Front connected panel or rail-mounted



Drilling diagrams panel or rail-mounted front connected



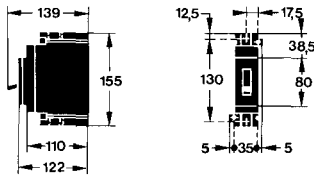
Drilling of the door



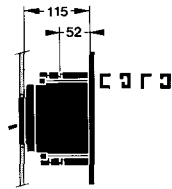
1-pole

Compact F150N

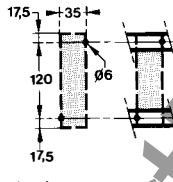
Fixed equipment



Front connected panel or rail-mounted



Drilling diagrams panel or rail-mounted front connected



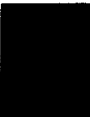
Drilling of the door



1-pole

Weights (kg)

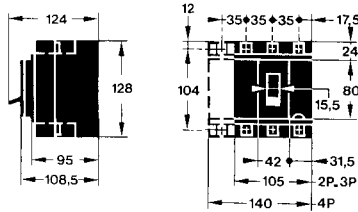
type No of fixed



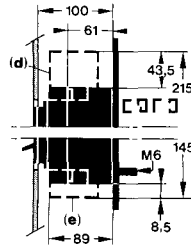
dimensions C101N/H/L

Compact C101N/H, C101NI

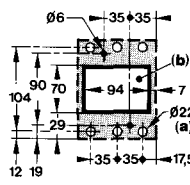
Fixed equipment



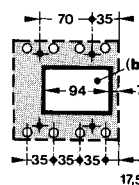
Front or rear connected panel or rail-mounted



Drilling diagrams panel-mounted front or rear connected

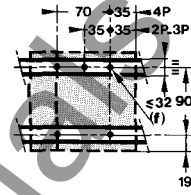


2 or 3-pole



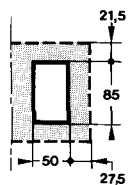
4-pole

rail-mounted front connected

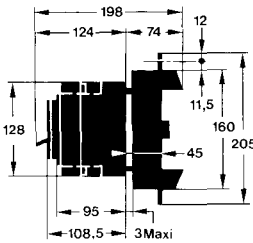


2, 3 or 4-pole

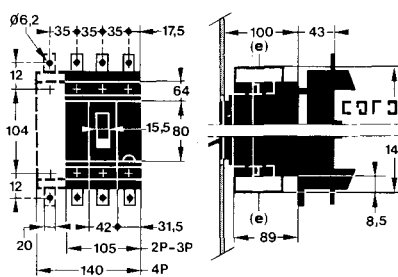
Drilling of the door



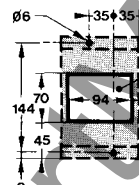
Plug-in equipment



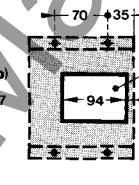
Front or rear connected panel or rail-mounted



Drilling diagrams panel-mounted front or rear connected

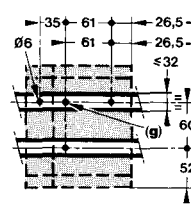


2 or 3-pole



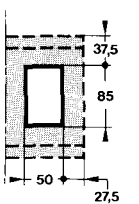
4-pole

rail-mounted front connected



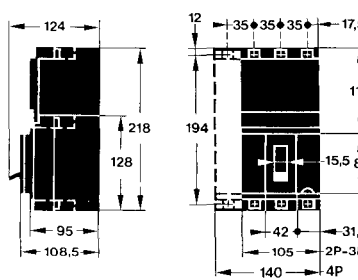
2, 3 or 4-pole

Drilling of the door

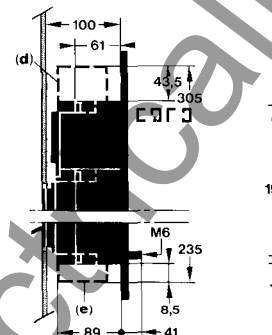


Compact C101L

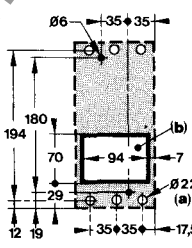
Fixed equipment



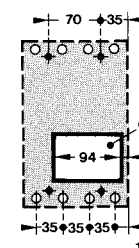
Front or rear connected panel or rail-mounted



Drilling diagrams panel-mounted front or rear connected

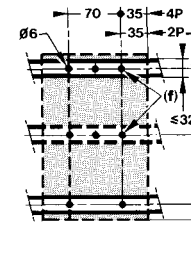


3-pole



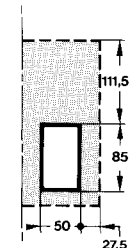
4-pole

rail-mounted front or rear connected



3 or 4-pole

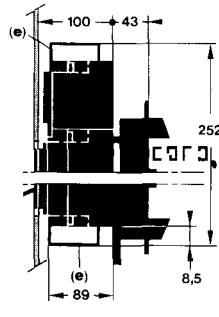
Drilling of the door



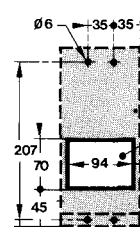
Plug-in equipment



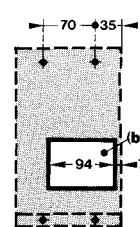
Front or rear connected panel or rail-mounted



Drilling diagrams panel-mounted front or rear connected

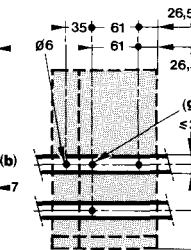


3-pole



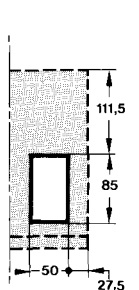
4-pole

rail-mounted front or rear connected



3 or 4-pole

Drilling of the door



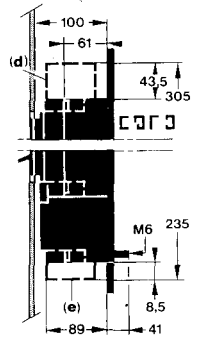
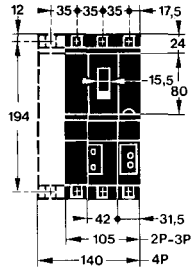
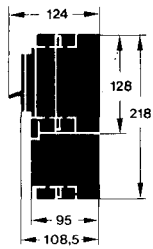
Weight (kg)

type	No of poles	fixed	plug-in with base
C101N/H, C101NI	2	1.5	2.2
	3	1.6	2.4
	4	2	2.4

- (a) For rear connection only
- (b) Necessary with auxiliary wire blocks only
- (d) Long terminal shields for front connection
- (e) Short terminal shields for rear connection

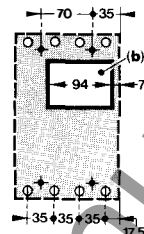
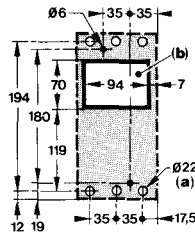
Vigicompact C101N/H

Fixed equipment

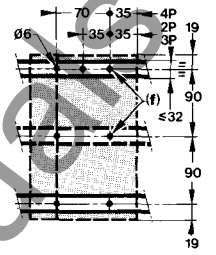


Front or rear connected
panel or rail-mounted

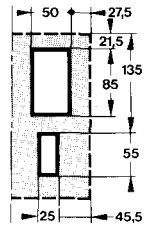
Drilling diagrams
panel-mounted
front or rear connected



rail-mounted
front connected



Drilling of
the door

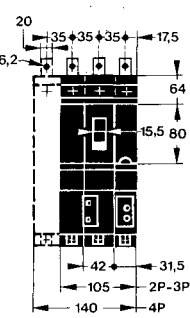
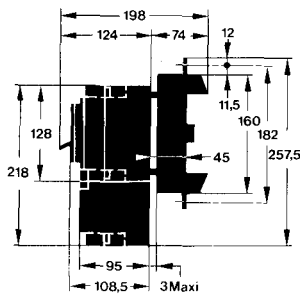


3-pole

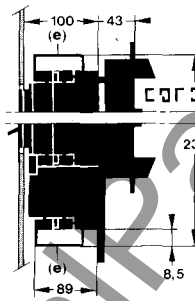
4-pole

2, 3 or 4-pole

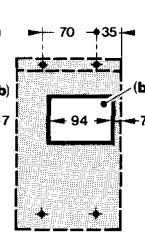
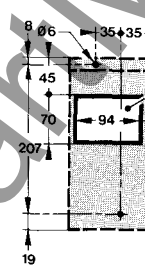
Plug-in equipment



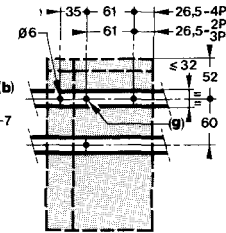
Front or rear connected
panel or rail-mounted



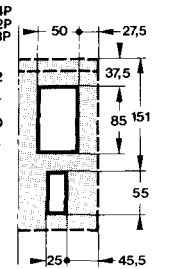
Drilling diagrams
panel-mounted
front or rear connected



rail-mounted
front or rear connected



Drilling of
the door



3-pole

4-pole

3 or 4 pole

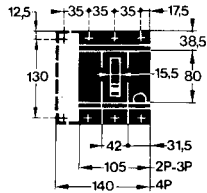
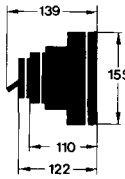
Weight (kg)

type No of fixed plug-in

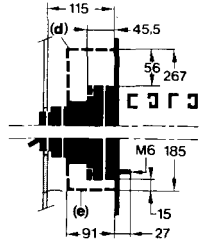
- (a) For rear connection only
- (b) Necessary with auxiliary wire blocks only
- (d) Long terminal shields for front connection
- (e) Short terminal shields for rear connection

Compact C161N/H, C161NI

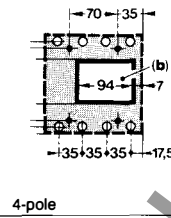
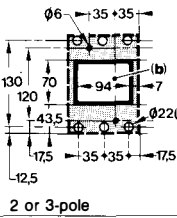
Fixed equipment



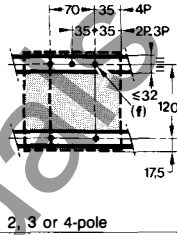
Front or rear connected
panel or rail-mounted



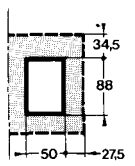
Drilling diagrams
panel-mounted
front or rear connected



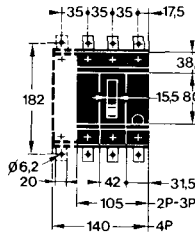
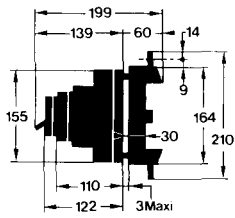
rail-mounted
front connected



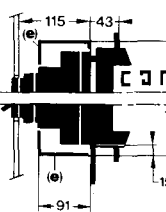
Drilling of
the door



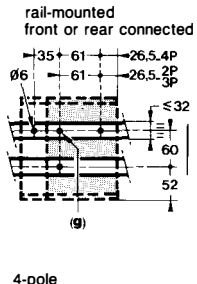
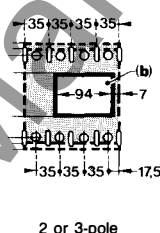
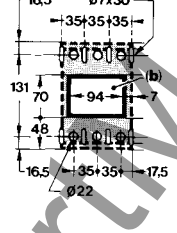
Plug-in equipment



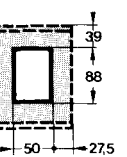
Front or rear connected
panel or rail-mounted



Drilling diagrams
panel-mounted
front or rear connected

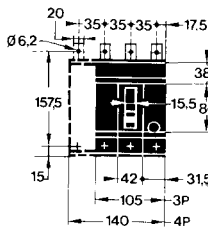
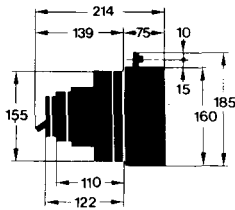


Drilling of
the door



Compact C161L

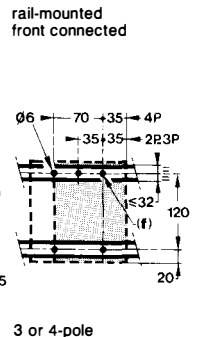
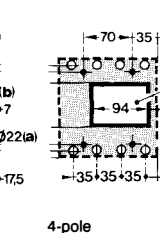
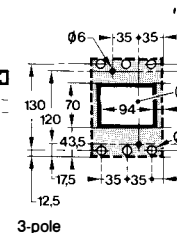
Fixed equipment



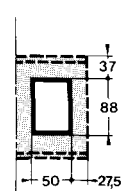
Front or rear connected
panel or rail-mounted



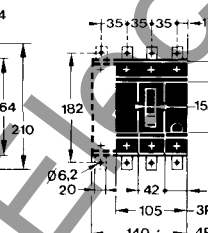
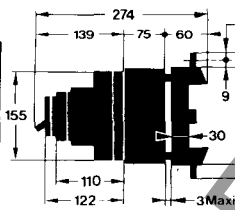
Drilling diagrams
panel-mounted
front or rear connected



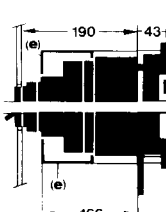
Drilling of
the door



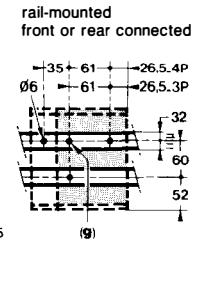
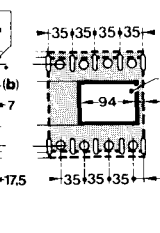
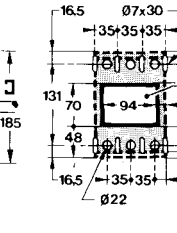
Plug-in equipment



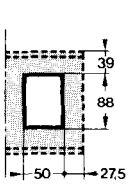
Front or rear connected
panel or rail-mounted



Drilling diagrams
panel-mounted
front or rear connected



Drilling of
the door



Weight (kg)

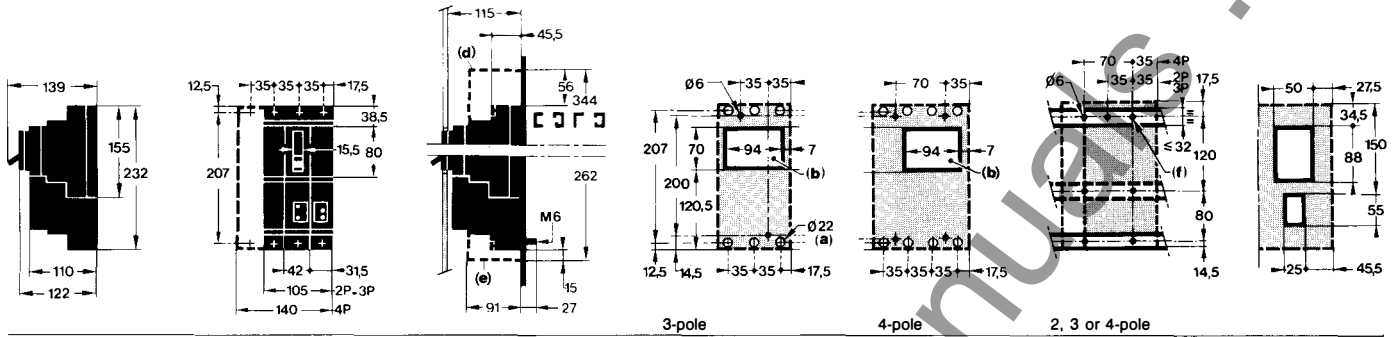
type	No of poles	fixed	plug-in with base
C161N/H, C161NI	2	1.5	2.2
	3	1.7	2.4
	4	2.1	2.6

- (a) For rear connection only
- (b) Necessary with auxiliary wire blocks only
- (d) Long terminal shields for front connection
- (e) Short terminal shields for rear connection

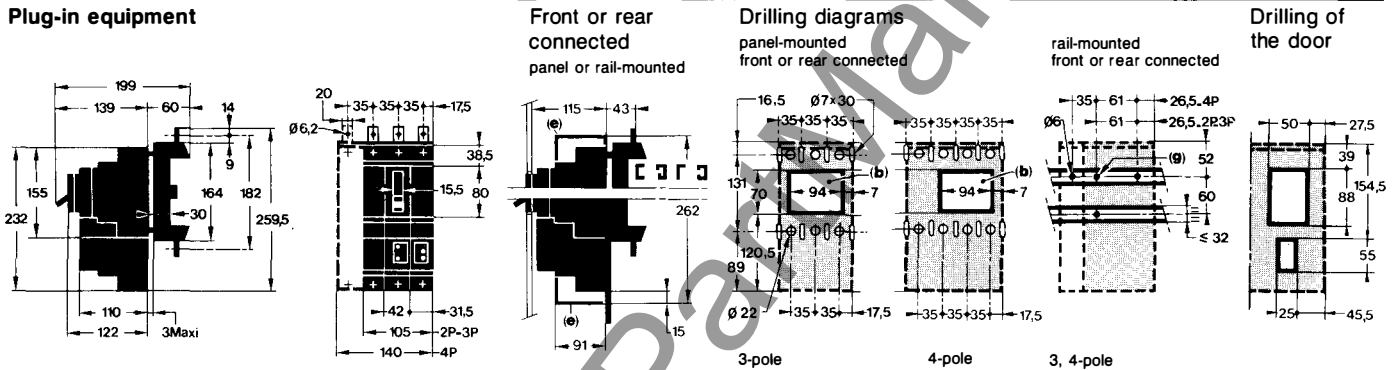
**Vigicomact C161N/H,
Visucompact and
earth leakage Visucompact
C161N**

Vigicomact C161N/H

Fixed equipment

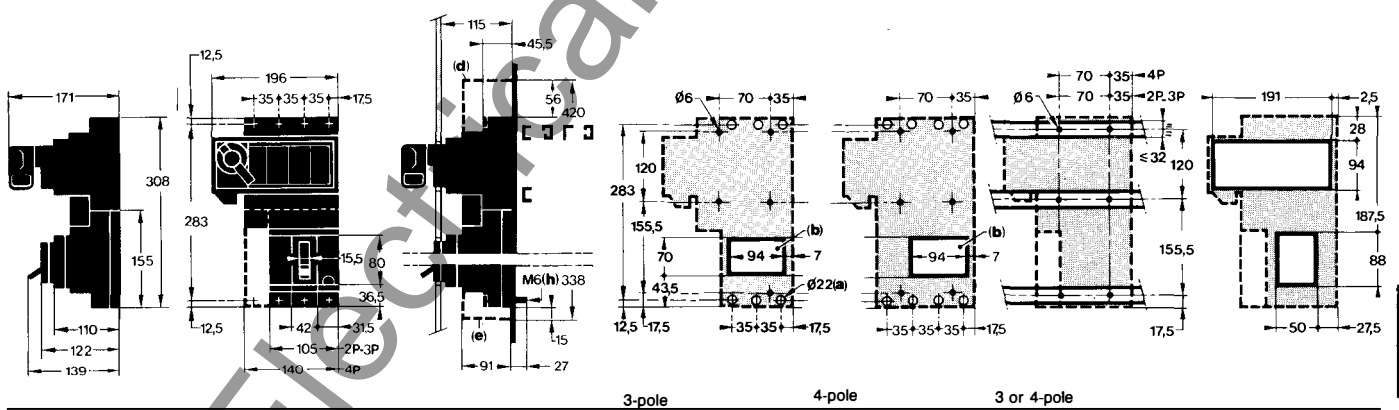


Plug-in equipment



Visucompact C161N

Fixed equipment



**earth leakage Visucompact
C161N**

The size of the earth leakage Visucompact is identical to the one of the Visucompact (see above), except that the height is 80 mm greater.

- Thus :
- the height dimension changes from 308 to 388,
 - the lower mounting holes should be repeated 80 mm lower.

Weight (kg)			
type	No of poles	fixed	plug-in with base
Vigicomact C161N	3	2.3	3.4
	4	3.1	4.6
Visucompact C161N	3	3.7	
	4	4.2	

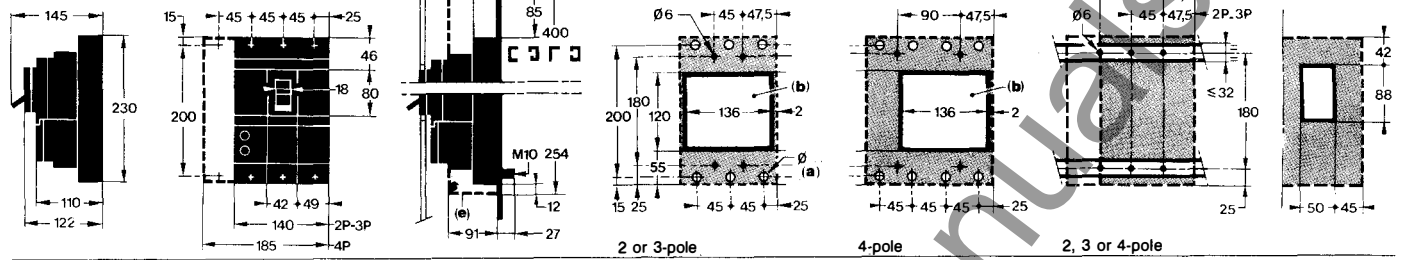
- (a) For rear connection only
(b) Necessary with auxiliary wire blocks only
(d) Long terminal shields for front connection
(e) Short terminal shields for rear connection

dimensions C250N/H/L

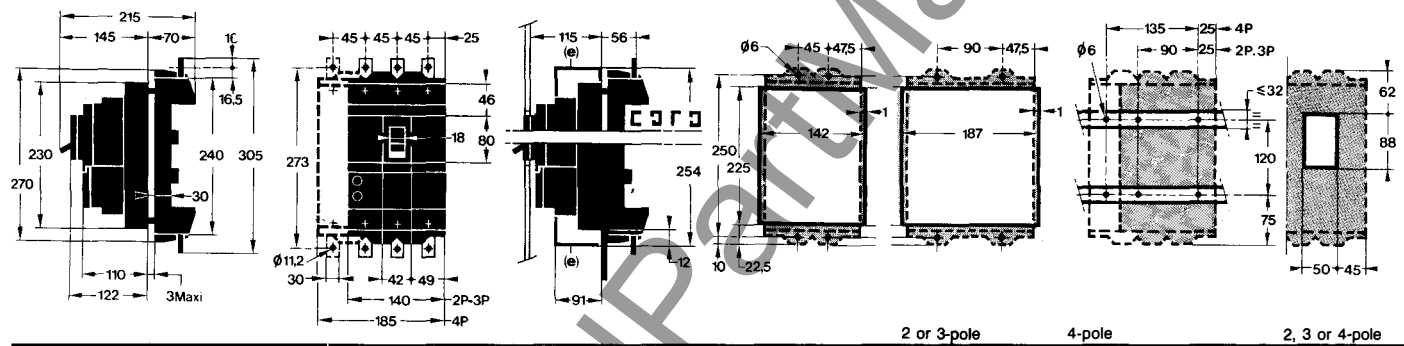
Compact C250N/H/L, C250NI

Compact C250N/H, C250NI

Fixed equipment

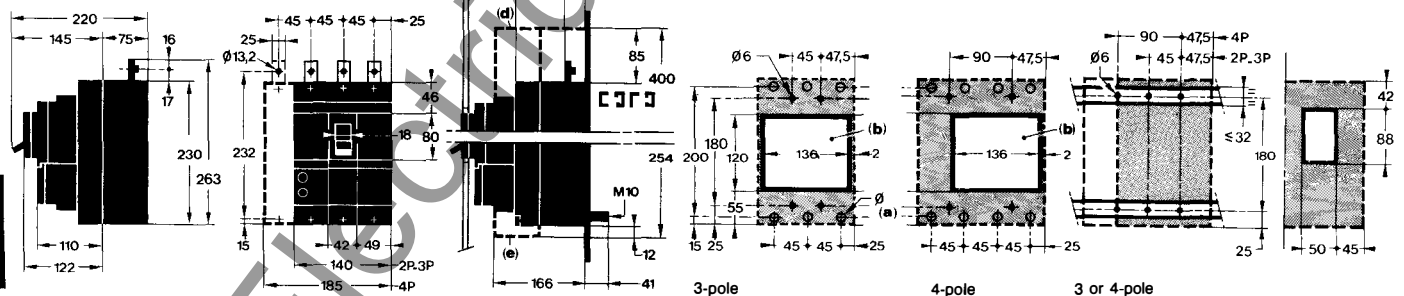


Plug-in equipment

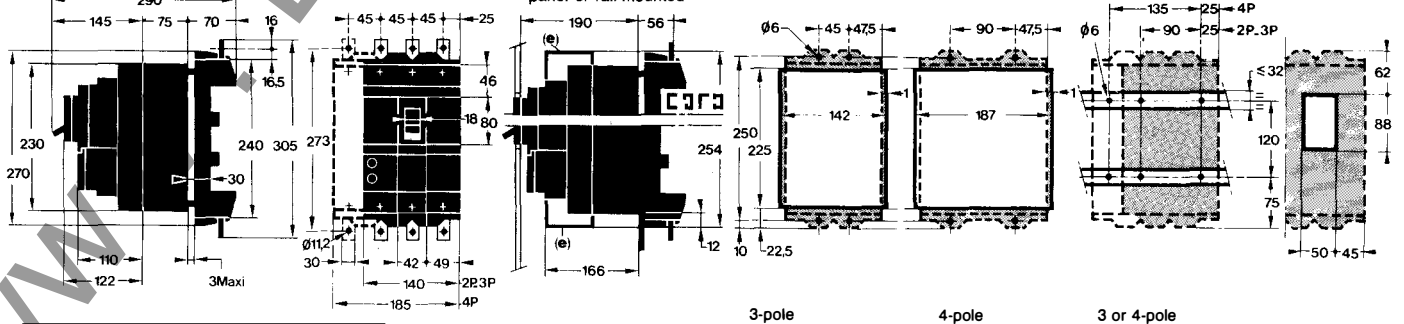


Compact C250L

Fixed equipment



Plug-in equipment



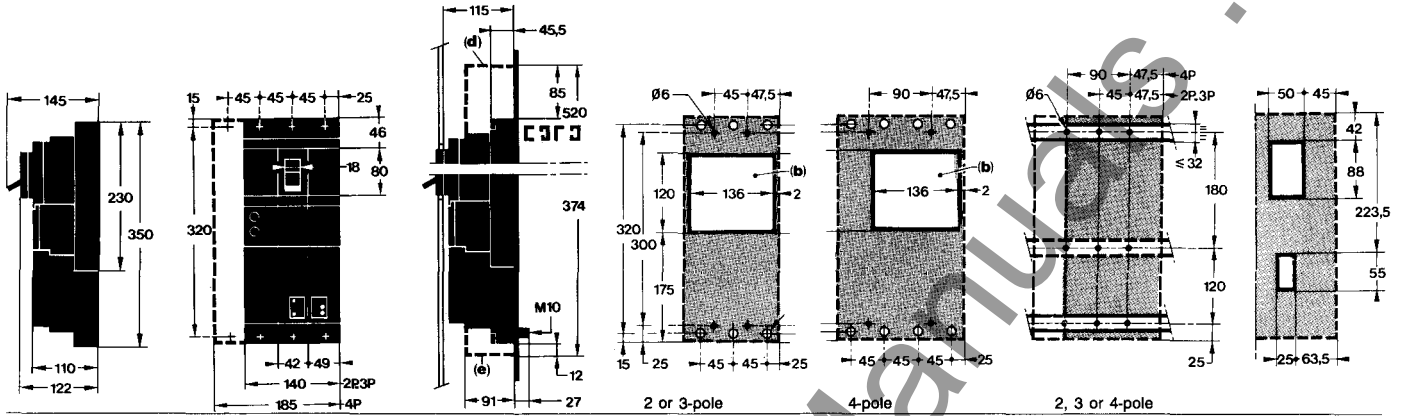
Weight (kg)

type	No of poles	fixed	plug-in with base
C250N/H, C250NI	2	3.5	4.8
	3	3.7	5.7

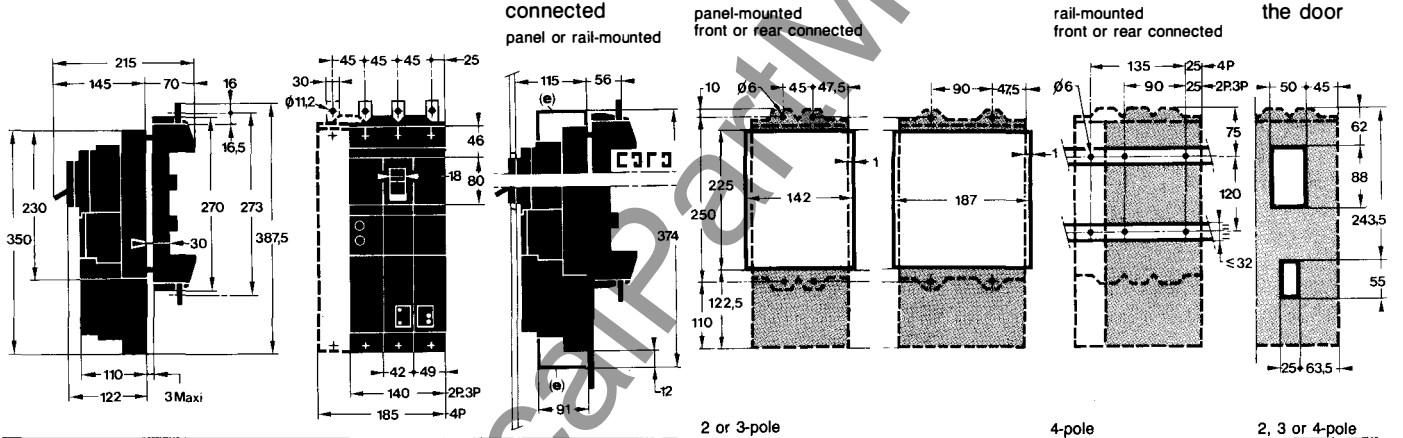
(a) For rear connection only (middle hole useless for 2-pole equipment).

Vigicomact C250N/H

Fixed equipment

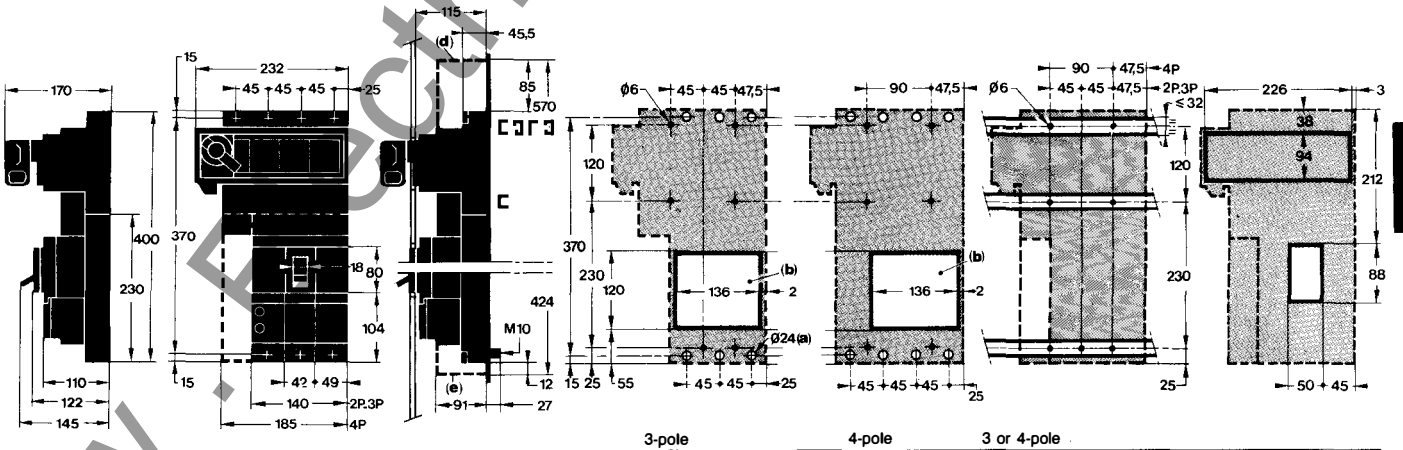


Plug-in equipment



Visucompact C250N

Fixed equipment



earth leakage Visucompact
C250N

The size of the earth leakage Visucompact is identical to the one of the Visucompact (see above), except that the height is 120 mm greater.

Thus:

- the height dimension changes from 400 to 520.
- the lower mounting holes should be repeated 120 mm lower.

Weight (kg)

type	No of poles	fixed	plug-in with base
Vigicomact C250N/H	3	5.2	7.1
Vigicomact C250N/H	4	6.2	8.6
Visucompact C250N	3	6.6	
Visucompact C250N	4	7.4	

(a) For rear connection only

dimensions

C401N/H/L, C400N/H/L ST C630N/H/L, C630N/H/L ST

Compact C401/C630N/H/L,
C400/C630N/H/L ST,
C401/C630NI

Compact C401/C630N/H, C400/C630N/H ST, C401/C630NI

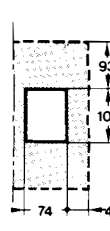
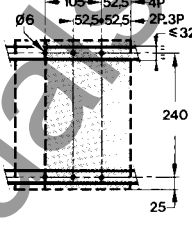
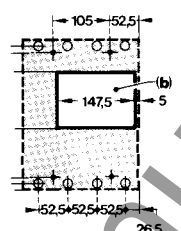
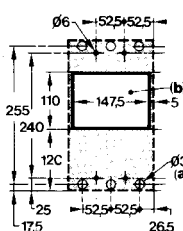
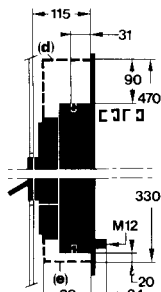
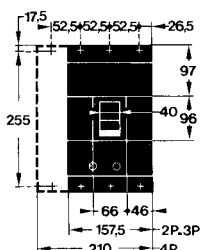
Front or rear
connected
panel or rail-mounted

Drilling diagrams
panel-mounted
front or rear connected

rail-mounted
front connected

Drilling of
the door

Fixed equipment



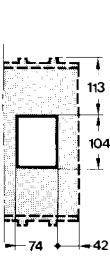
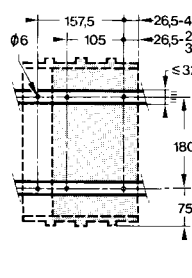
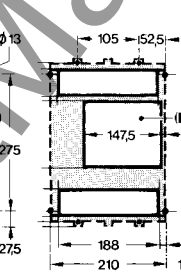
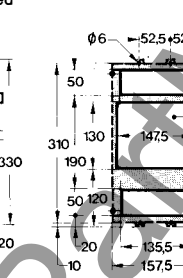
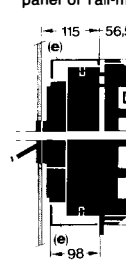
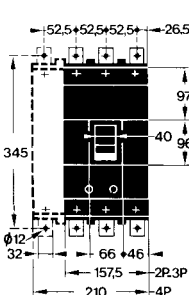
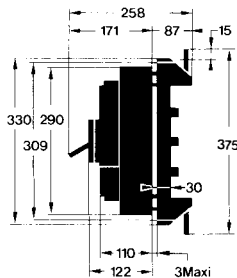
Plug-in equipment

Front or rear
connected
panel or rail-mounted

Drilling diagrams
panel-mounted
front or rear connected

rail-mounted
front or rear connected

Drilling of
the door



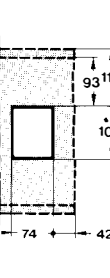
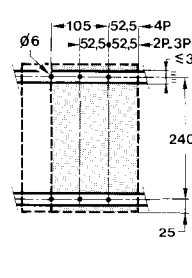
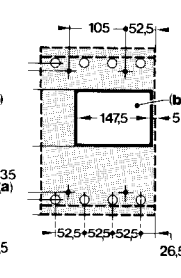
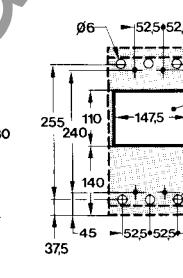
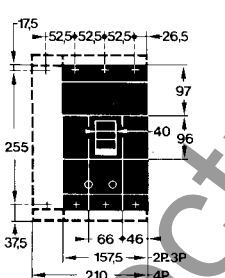
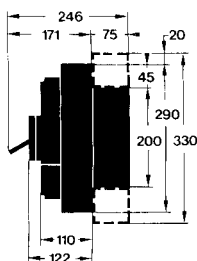
Compact C401/C630L, C400/C630L ST

Front or rear
connected
panel

Drilling diagrams
panel-mounted
front or rear connected

Drilling of
the door

Fixed equipment



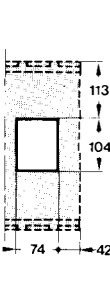
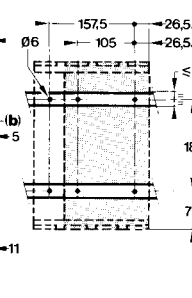
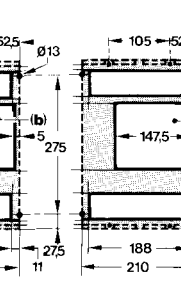
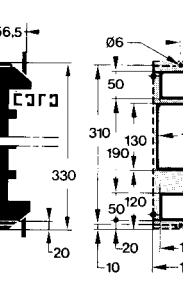
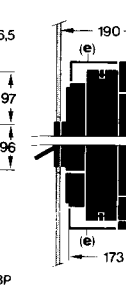
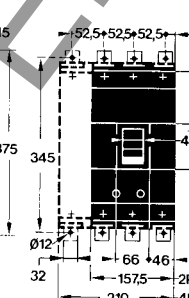
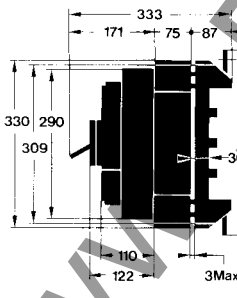
Plug-in equipment

Front or rear
connected
panel or rail-mounted

Drilling diagrams
panel-mounted
front or rear connected

rail-mounted
front or rear connected

Drilling of
the door



Weight (kg)

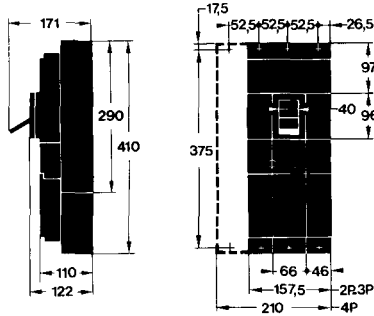
type	No of poles	fixed	plug-in with base
C401/C630N/H, C401/C630NI	2	4.3	6.1
C400/C630N/H ST	3	5.4	8.9

(a) For rear connection only

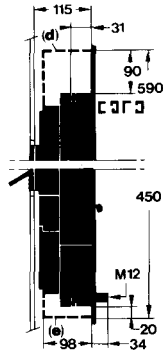
**Vigicomact C401/C630N/H,
C400/C630N/H ST,
Visucompact and
earth leakage Visucompact
C401/C630N, C400/C630N ST**

**Vigicomact C401/C630N/H,
C400/C630N/H ST**

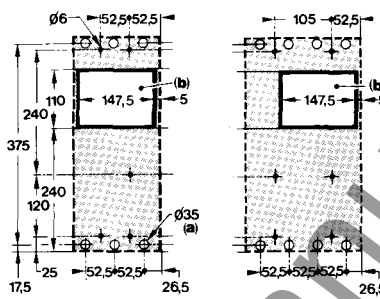
Fixed equipment



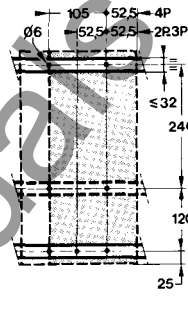
**Front or rear
connected
panel or rail-mounted**



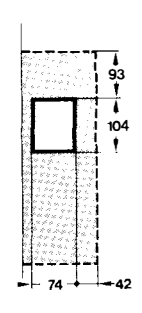
**Drilling diagrams
panel-mounted
front or rear connected**



**rail-mounted
front connected**



**Drilling of
the door**

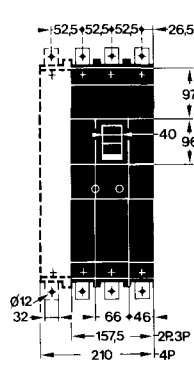
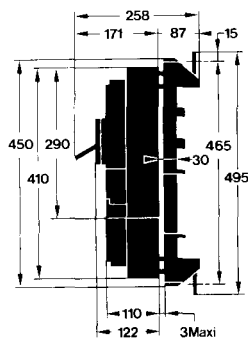


3-pole

4-pole

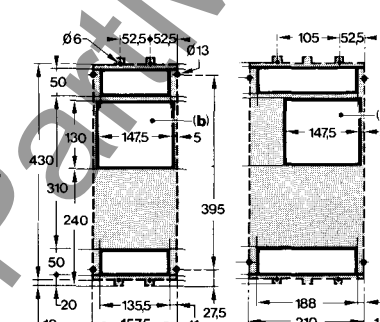
3 or 4-pole

Plug-in equipment

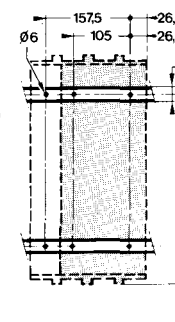


**Front or rear
connected
panel or rail-mounted**

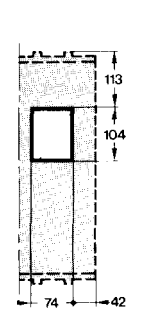
**Drilling diagrams
panel-mounted
front or rear connected**



**panel-mounted
front connected**



**Drilling of
the door**



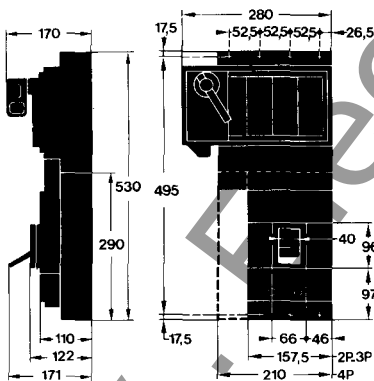
3-pole

4-pole

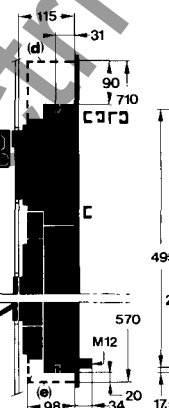
3 or 4-pole

**Visucompact C401/C630N,
C400/C630N ST**

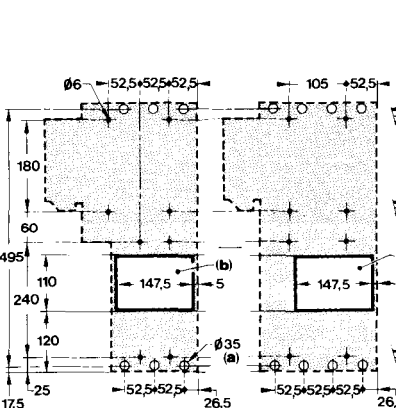
Fixed equipment



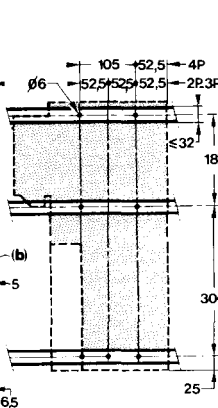
**Front or rear
connected
panel or rail-mounted**



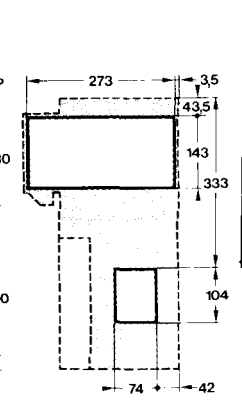
**Drilling diagrams
panel-mounted
front or rear connected**



**rail-mounted
front connected**



**Drilling of
the door**



3-pole

4-pole

3 or 4-pole

**earth leakage Visucompact
C401/C630N/C400/C630 ST**

The size of the earth leakage Visucompact is identical to the one of the Visucompact (see above), except that the height is 120 mm greater.

Thus:

- the height dimension changes from 530 to 650.
- the lower mounting holes should be repeated 120 mm lower.

Weight (kg)

type	No of poles	fixed	plug-in with base
Vigicomact C401/C400/C630N	3	7.8	11.2
	4	9.7	13.3
Visucompact C401/C400/C630N	3	10.7	
	4	12.4	

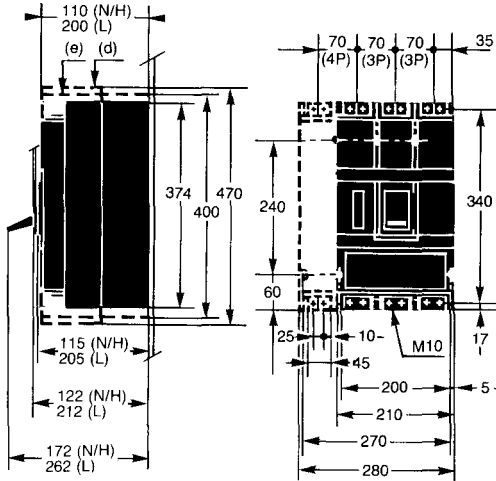
(a) For rear connection only

dimensions C800N/H/L ST to C1250N/H ST

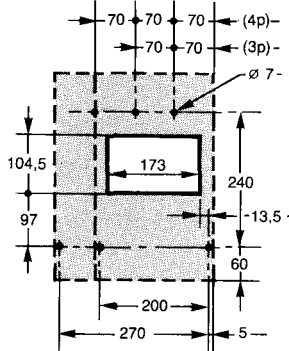
Compact
C800N/H/L ST to C1250N/H ST,
C800NI, C1250NI

Compact C800N/H/L ST, C1000N/H/L ST, C1250N/H ST, C800NI, C1250NI

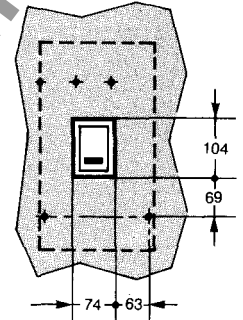
Fixed FC (flat or edgewise pads)



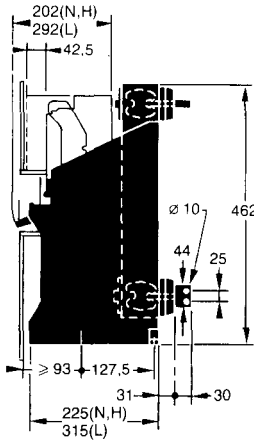
Cut-out and drillings for fixing : on panel on rail mounted



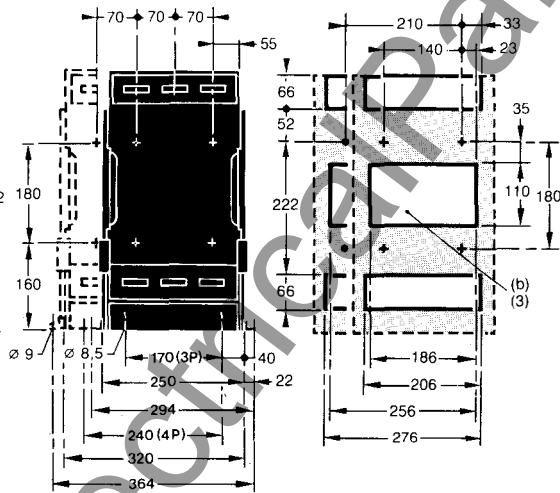
Door cut-out



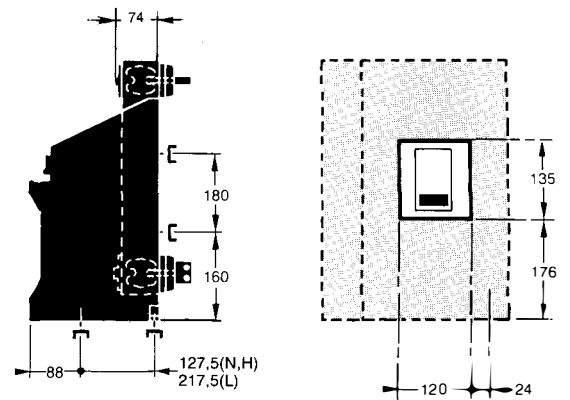
Drawout equipment



Cut-out and drillings for fixing



Door cut-out

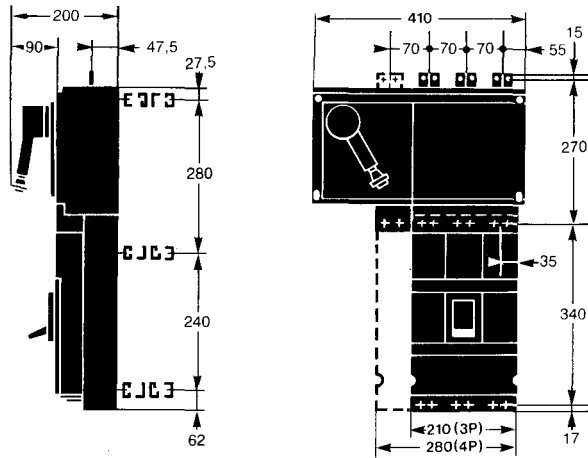


Weights (kg)

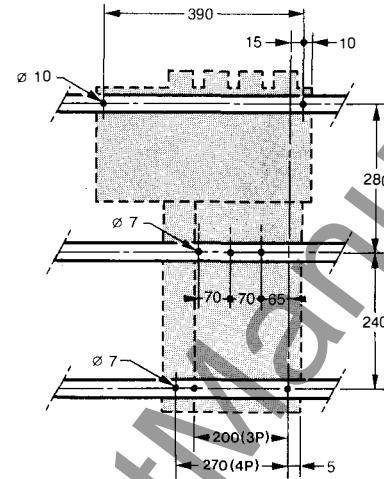
type	No of poles	fixed	drawout with base
C800 to C1250N/H	3	13	31

Visucompact C800 to C1250N ST

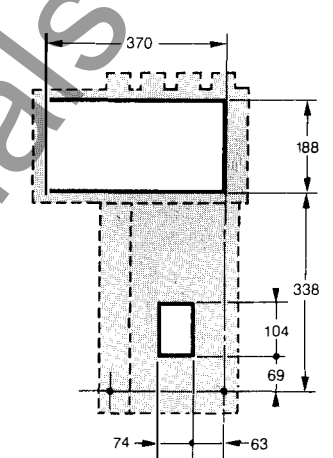
Fixed FC



Cut-out and drillings for fixing :
on rail mounted

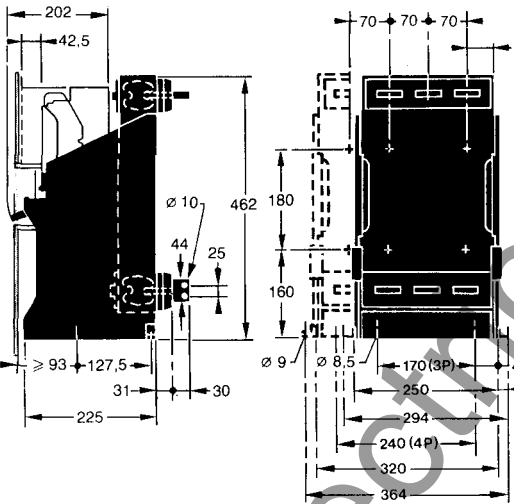


Door cut-out

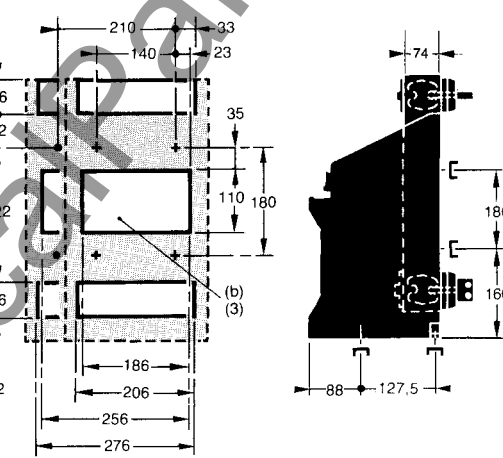


3P/4P

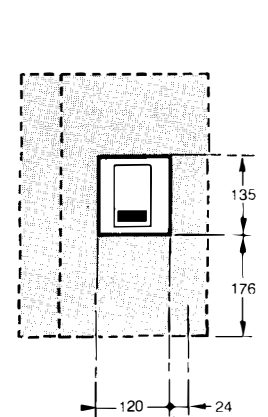
Drawout equipment



Cut-out and drillings for fixing



Door cut-out



Weights (kg)

type	No of poles	fixed	drawout with base
Visucompact C800N ST	3	27	31
	4	32	36

dimensions chassis for withdrawable CB

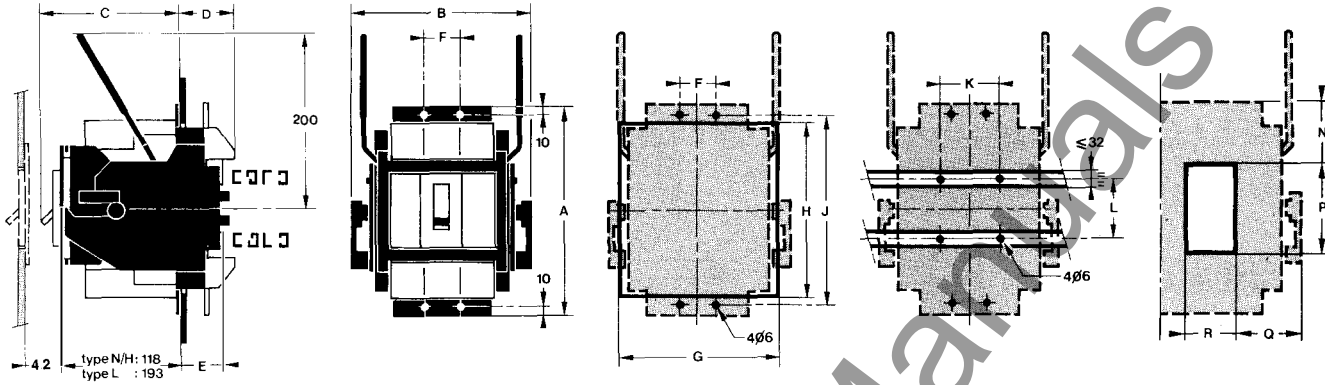
for Compact C161 to
C630N/H/L ST

chassis for withdrawable CB

Drilling diagram
panel

rail-mounted

for Compact C161 to C630N/H/L ST



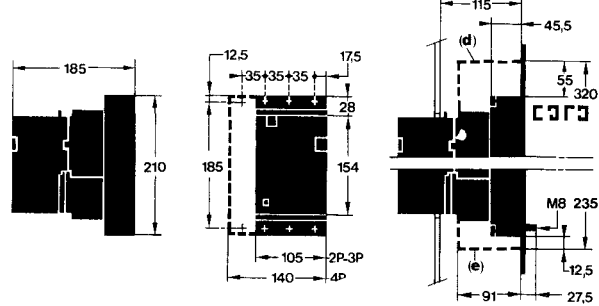
dimensions (mm)

		A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
C161N/H	3P	207	178	142	60	57	35	156	165	187.5	61	60	140	41.5	88	64	50
	4P	207	213	142	60	57	70	191	165	187.5	96	60	140	41.5	88	64	50
C161L	3P	207	178	217	60	57	35	156	165	187.5	61	60	140	41.5	88	64	50
	4P	207	213	217	60	57	70	191	165	187.5	96	60	140	41.5	88	64	50
C250N/H	3P	330	213(1)	148	70	27	69	196	272	310	90	120	180	82	88	81.5	50
	4P	330	258(1)	148	70	27	114	241	272	310	135	120	180	82	88	81.5	50
C250L	3P	330	213(1)	223	70	27	69	196	272	310	90	180	180	82	88	81.5	50
	4P	330	258(1)	223	70	27	114	241	272	310	135	180	180	82	88	81.5	50
C401N/H to	3P	390	231	174	87	27	76.5	214	332	370	105	180	180	122	104	78.5	74
C630N/H ST	4P	390	284	174	87	27	129	267	332	370	157.5	180	180	122	104	78.5	74
C401L to	3P	390	231	249	87	27	76.5	214	332	370	105	180	180	122	104	78.5	74
C630L ST	4P	390	284	249	87	27	129	267	332	370	157.5	180	180	122	104	78.5	74

(1) For Compact C250N/H/L with motor mechanism : the dimensions B is to be increased of 9 mm (on the neutral side).

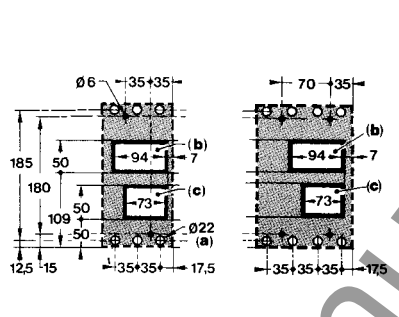
Compact TC160N

Fixed equipment

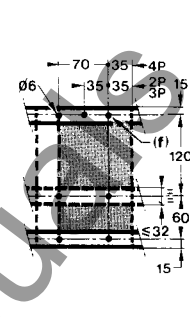


**Front or rear connected
panel or rail-mounted**

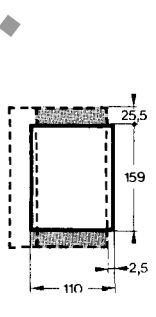
**Drilling diagrams
panel-mounted
front or rear connected**



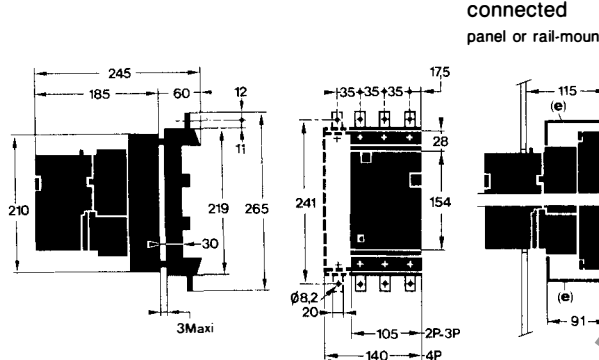
**rail-mounted
front connected**



**Drilling of
the door**

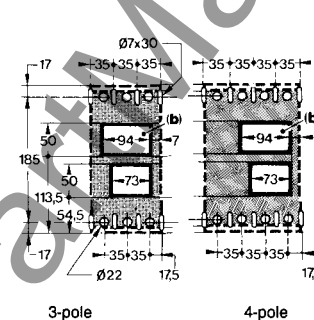


Plug-in equipment

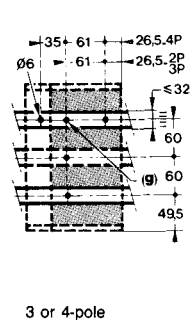


**Front or rear connected
panel or rail-mounted**

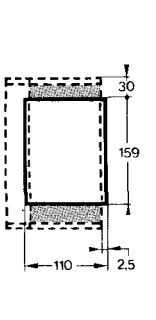
**Drilling diagrams
panel-mounted
front or rear connected**



**rail-mounted
front or rear connected**

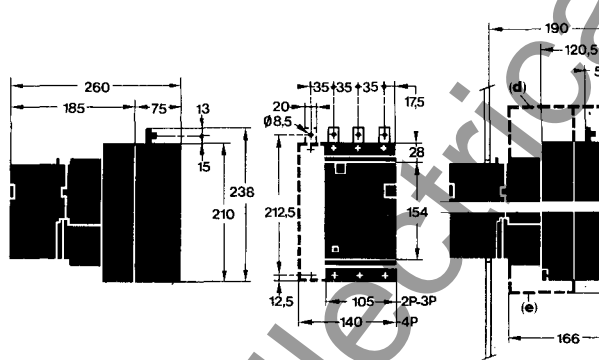


**Drilling of
the door**



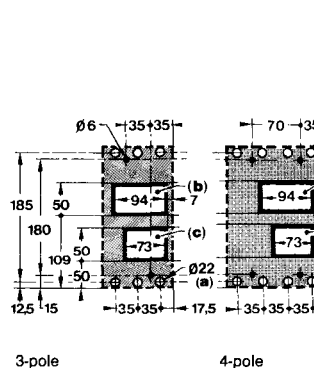
Compact TC160L

Fixed equipment

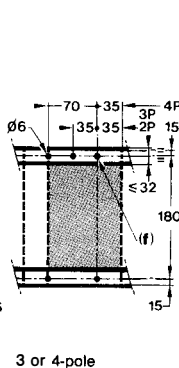


**Front or rear connected
panel or rail-mounted**

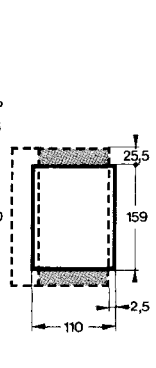
**Drilling diagrams
panel-mounted
front or rear connected**



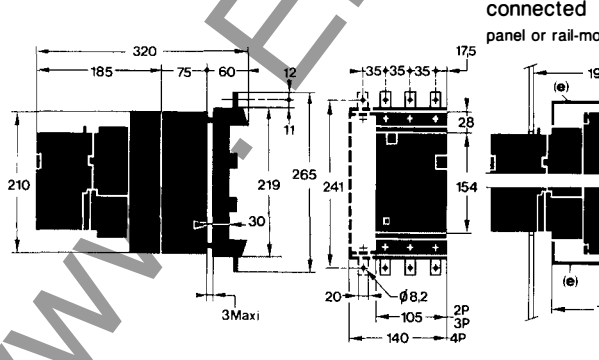
**rail-mounted
front connected**



**Drilling of
the door**

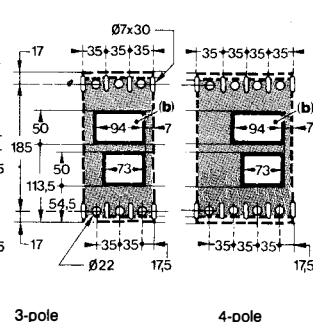


Plug-in equipment

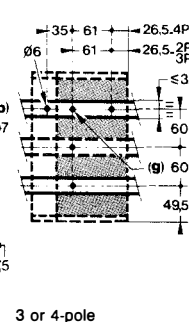


**Front or rear connected
panel or rail-mounted**

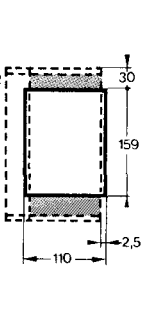
**Drilling diagrams
panel-mounted
front or rear connected**



**rail-mounted
front or rear connected**



**Drilling of
the door**



Weight (kg)

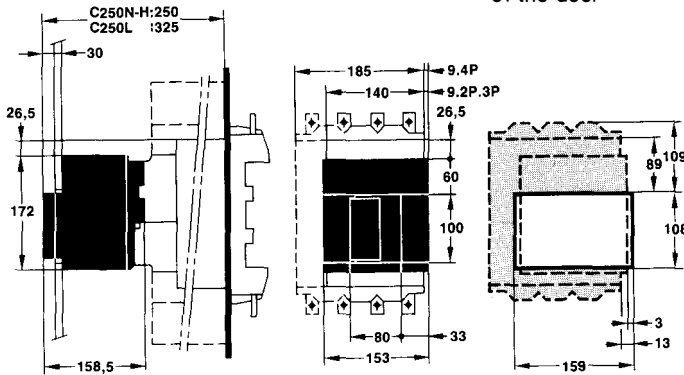
type	No of poles	fixed	plug-in with base
TC160N	3	4.0	4.7
	4	4.8	5.0

(a) For rear connection only
(b) Necessary with auxiliary wire blocks only
(c) Necessary with auxiliary wire blocks for motor mechanism

motor mechanism T250 and TS250

for Compact C250N/H/L
Fixed or plug-in equipment

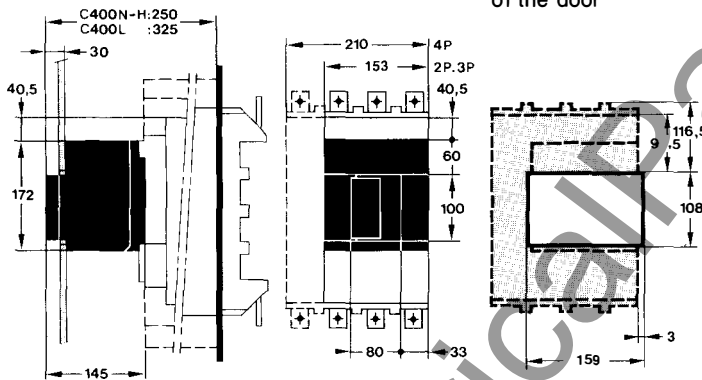
Drilling
of the door



motor mechanism T401/400/630 and TS401/400/630

for Compact C401/C400/C630N/H/L
Fixed or plug-in equipment

Drilling
of the door



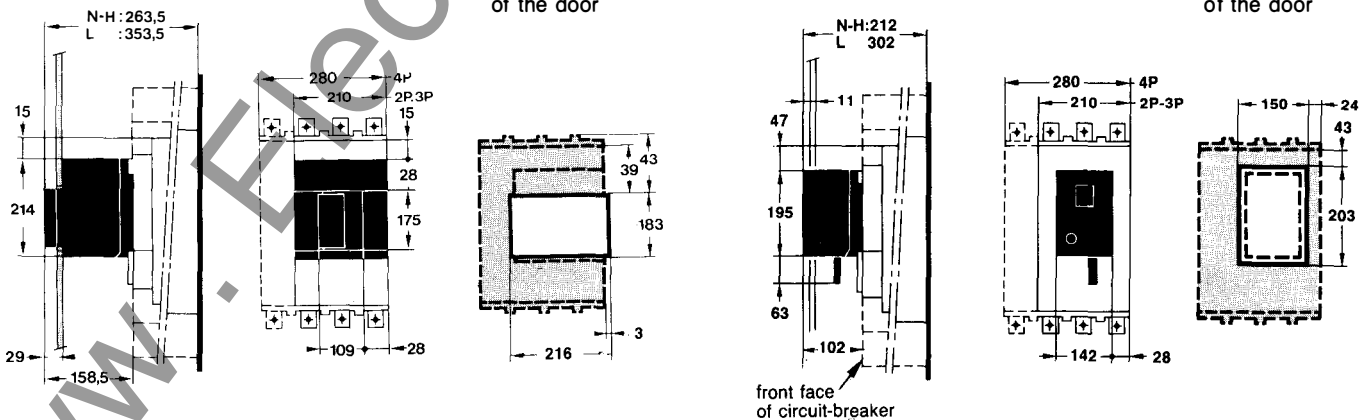
motor mechanism T800/1000/1250 and TS800/1000/1250

for Compact C800 to C1250N/H/L ST (consult us)
Fixed equipment

Drilling
of the door

Fixed equipment

Drilling
of the door



Drawout equipment :
The dimensions of the remote control
modules on Compact drawout circuit-
breakers C800/1000 and 1250N/H/L and

the corresponding door cutouts are
identical to those indicated above for the
remote control modules on fixed circuit-
breakers.

Weight (kg)
motor mechanism weight

dimensions automatic source changeover

with 2 Compact
TC160N/L, C250 to C1250N/H/L

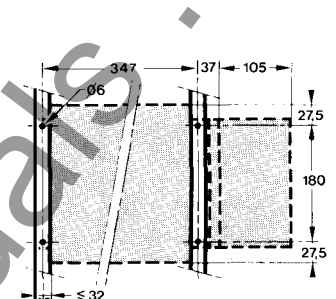
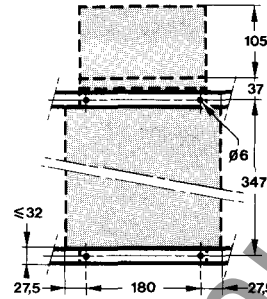
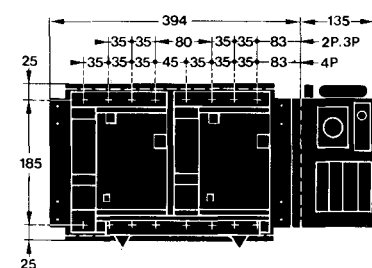
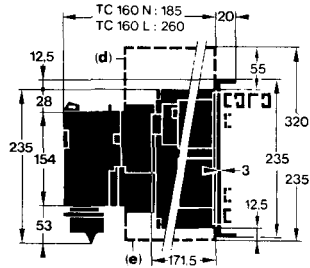
Compact changeover TC160N/L

Front connected
rail-mounted

Drilling diagrams
horizontal rails mounted

vertical rails mounted

Fixed equipment



3 or 4-pole

3 or 4 pole

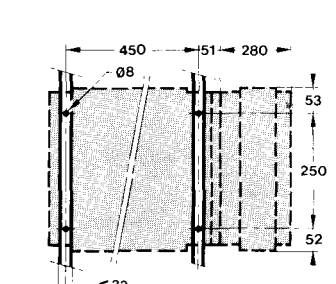
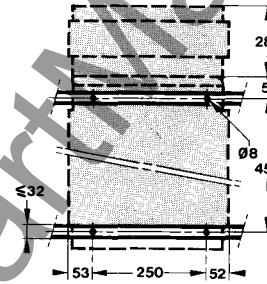
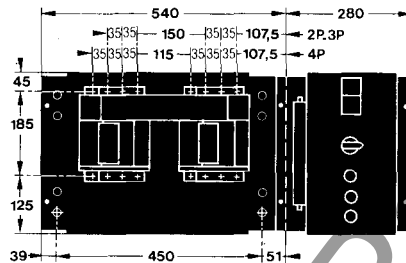
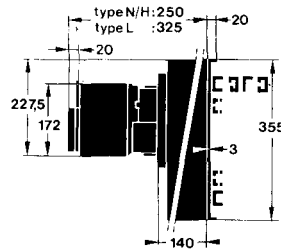
Compact changeover C250N/H/L

Front connected
rail-mounted

Drilling diagrams
horizontal rails mounted

vertical rails mounted

Fixed equipment



3 or 4-pole

3 or 4 pole

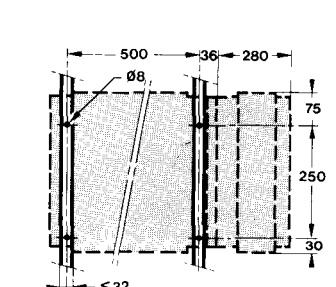
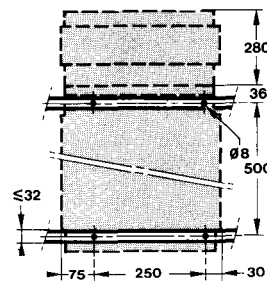
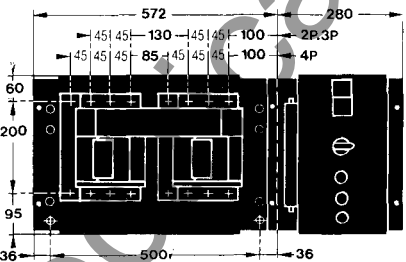
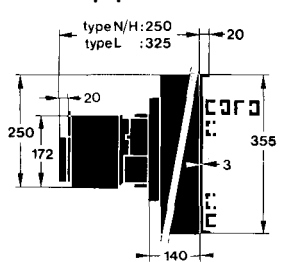
Compact changeover C401 to C630 N/H/L ST

Front connected
panel or rail-mounted

Drilling diagrams
horizontal rails mounted

vertical rails mounted

Fixed equipment



3 or 4-pole

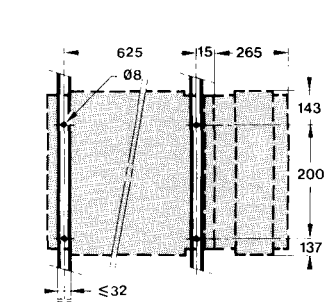
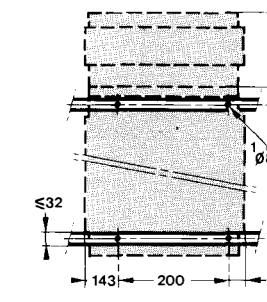
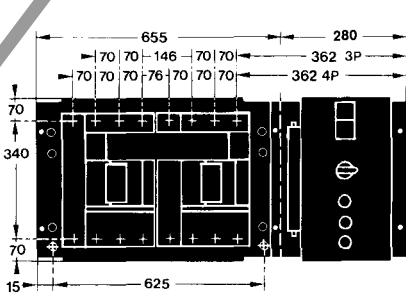
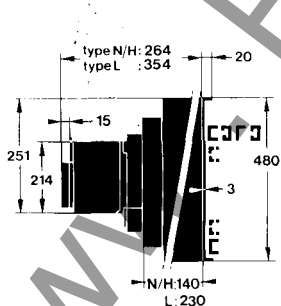
3 or 4 pole

Compact changeover C800 to C1250N/H/L ST

Front connected
panel or rail-mounted

Drilling diagrams
horizontal rails mounted

vertical rails mounted



3 or 4-pole

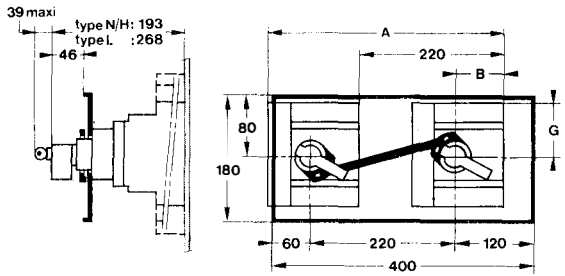
3 or 4 pole

Weights (kg)

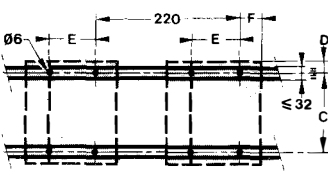
type	30	4P	type	3P	4P
TC160N	12.6	14.2	C401N/H to C630N/H ST	30.2	32.4

mechanical interlocking

Compact C101N/H/L to C630N/H/L
with direct rotary handle



Drilling diagram
panel or rail-mounted

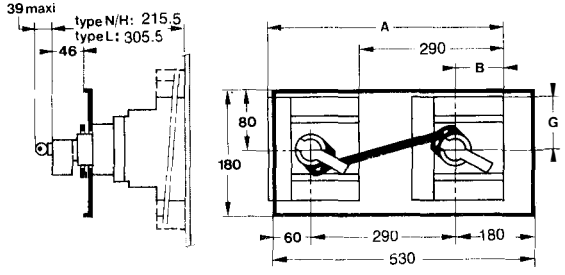


	A	B	C	D	E	F	G
	3P	4P			3P	4P	
C101N/H/L	325	360	74	90	19	35	70 35 64
C161N/H/L	325	360	74	120	17.5	35	70 35 78.5
C250N/H/L	360	405	91.5	180	25	45	90 47.5 91.5
C401N/H/L	377.5	430	122	240	25	52.5	105 52.5 122
to C630N/H/L							ST

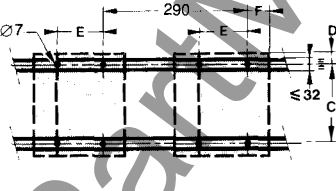
3 or 4-pole

mechanical interlocking

Compact C800 to C1250N/H/L ST
with direct rotary handle



Drilling diagram
panel or rail-mounted



	A	B	C	D	E	F	G
	3P	4P			3P	4P	
C161N/H/L	430	570	179	240	74	140	210 70 200.5
C800							
to C1250N/H/L							ST

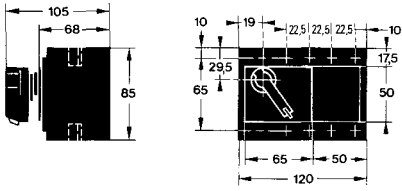
3 or 4-pole

www.ElectricalPartManuals.com

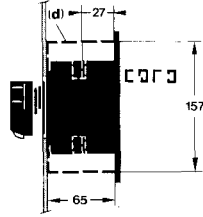
dimensions
Interpack IN63T to IN2500

IN63T to IN630

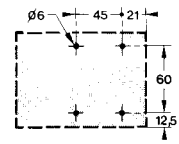
Interpack IN63T
Fixed equipment



Front or rear connected
panel or rail mounted

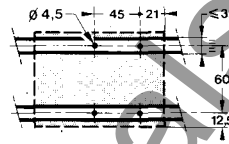


Drilling diagrams
panel-mounted
front or rear connected



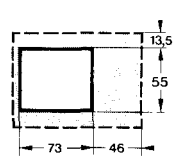
3 or 4-pole

rail-mounted
front connected

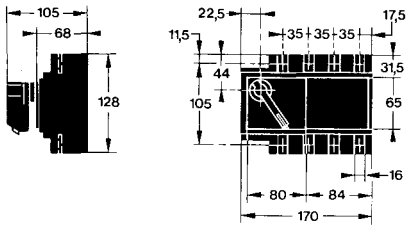


3 or 4-pole

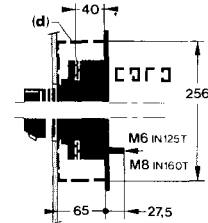
Drilling of the door



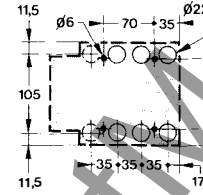
Interpack IN125T/IN160T
Fixed equipment



Front or rear connected
panel or rail-mounted

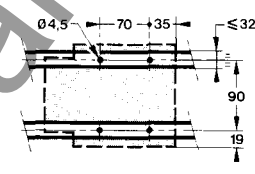


Drilling diagrams
panel-mounted
front or rear connected



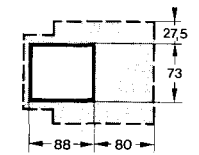
3 or 4-pole

rail-mounted
front connected

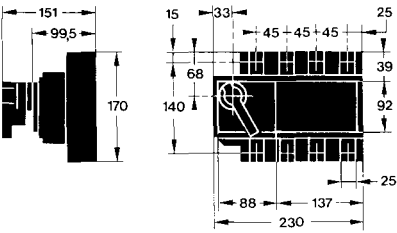


3 or 4-pole

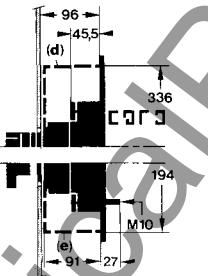
Drilling of the door



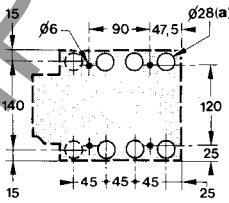
Interpack IN250
Fixed equipment



Front or rear connected
panel or rail-mounted

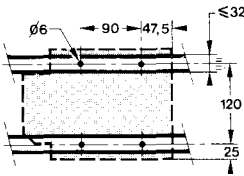


Drilling diagrams
panel-mounted
front or rear connected



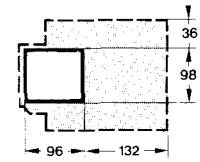
3 or 4-pole

rail-mounted
front connected

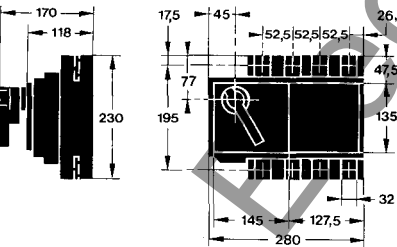


3 or 4-pole

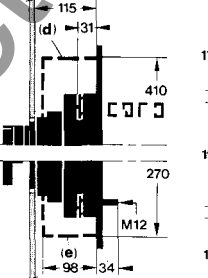
Drilling of the door



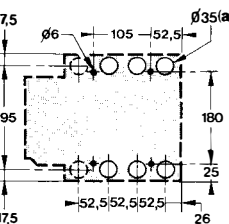
Interpack IN400/IN630
Fixed equipment



Front or rear connected
panel or rail-mounted

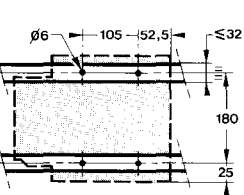


Drilling diagrams
panel-mounted
front or rear connected



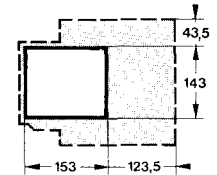
3 or 4-pole

rail-mounted
front connected



3 or 4-pole

Drilling of the door



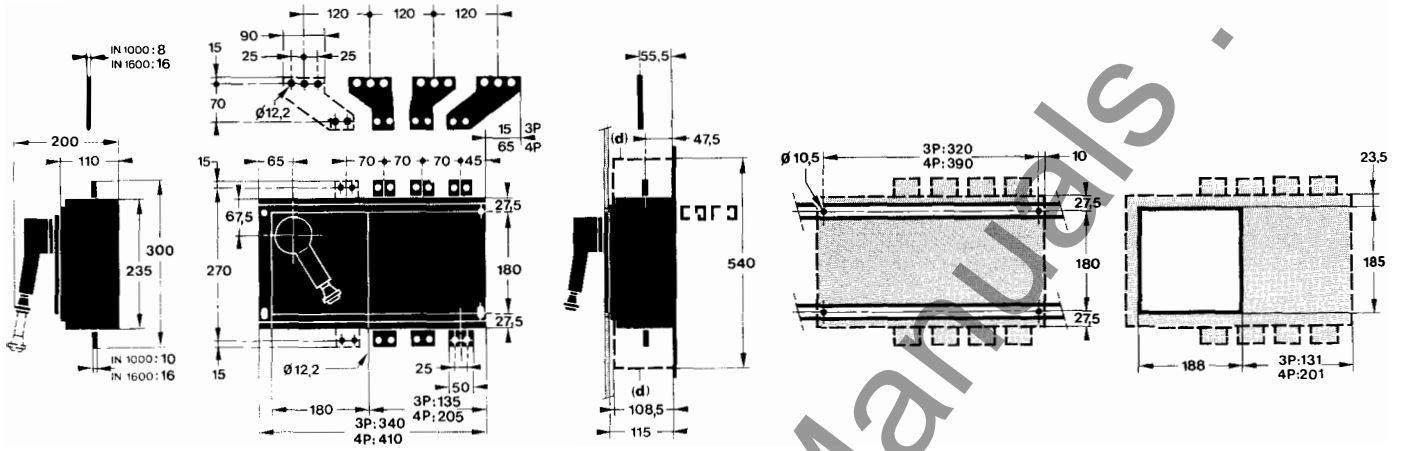
WWW.INTERPACK.COM

Interpact IN1000/IN1600

Front connected
panel or rail-mounted

Drilling diagram
panel or rail-mounted

Drilling of
the door

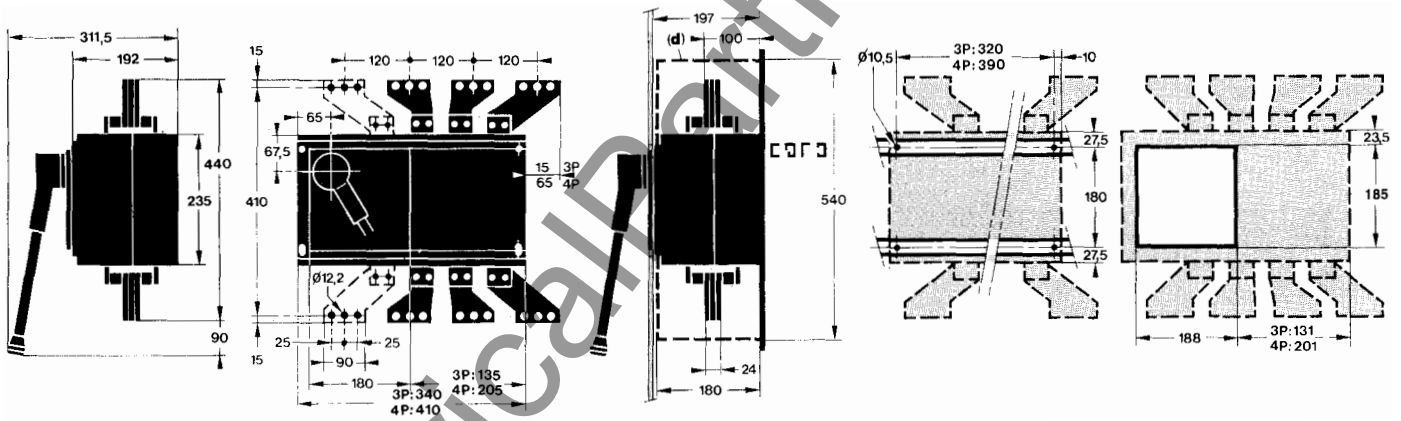


Interpact IN2500

Front connected
panel or rail-mounted

Drilling diagram
panel or rail-mounted

Drilling of
the door



3P/4P

Weight (kg)

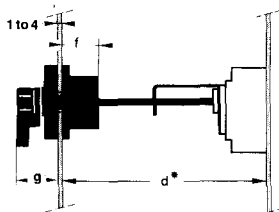
type	No of poles		type	No of poles	
	3	4		3	4
IN63T	0.75	0.80	IN400	4.3	4.7
IN125T	1.4	1.5	IN630	4.8	5.3

dimensions

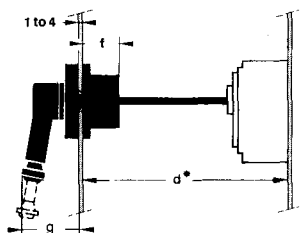
Interpact IN63T to IN2500 (continued)

rotary handle
mechanical interlocking

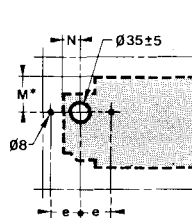
extended rotary handle Interpact IN63T to IN630



Interpact IN1000 to IN2500



Drilling of the door

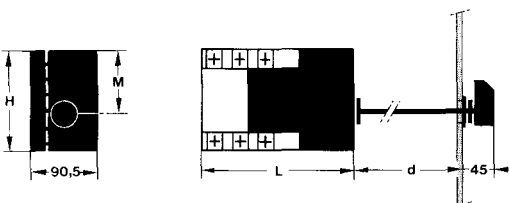


Dimensions (mm)

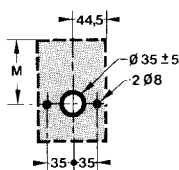
type	M	N	d*		e	f	g
			mini	maxi			
IN63T	29.5	19	180	306	35	50	44
IN125T	44	22.5	180	306	35	50	44
IN160T							
IN250	68*	33	180	306	43.5	45.5	65
IN400	77*	45	180	306	43.5	45.5	65
IN630							
IN1000	67.5*	65	180	306	43.5	46.5	97
IN1600							
IN2500	67.5*	65	22	388	43.5	46.5	97

* To balance the vertical play of the axis dimension M is to be increased of 3 mm for d > 220 mm.

lateral rotary handle Interpact IN63T to IN160T



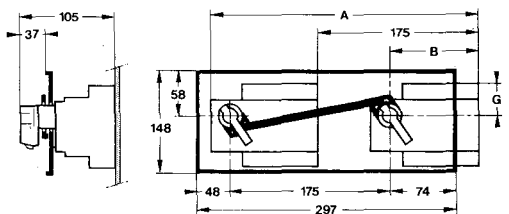
Drilling of the door



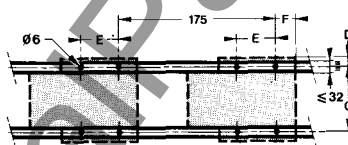
Dimensions (mm)

Interpact	H	L	M	d	
				mini	maxi
IN63T	118	155	67	30	200
IN125T	132	202	84	30	200
IN160T					

mechanical interlocking Interpact IN63T to IN160T



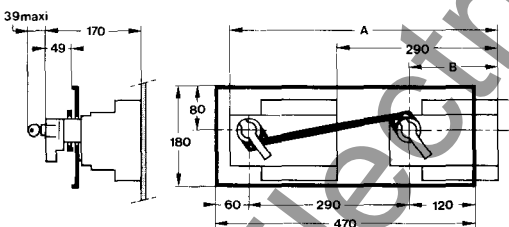
Drilling diagram



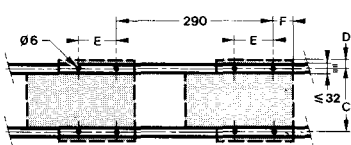
Dimensions (mm)

Interpact	A	B	C	D	E	F	G
IN125T	345	147.5	90	19	70	35	44
IN160T							

Interpact IN250 to IN630



Drilling diagram



Dimensions (mm)

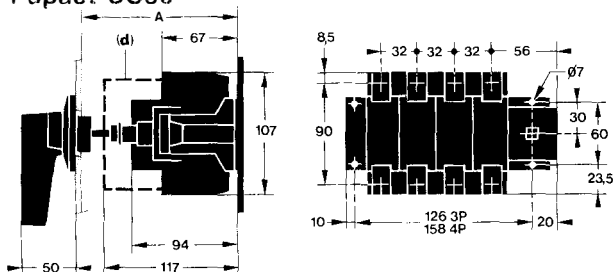
Interpact	A	B	C	D	E	F	G
IN400	570	235	180	25	105	52.5	77
IN630							

Weight (kg)

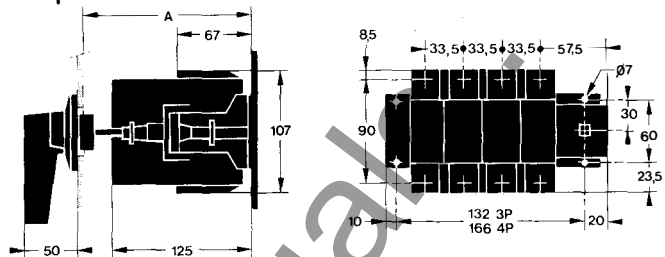
type	No of poles		type	No of poles	
	3	4		3	4
IN63T	0.75	0.80	IN630	4.8	5.3
IN125T	1.4	1.5	IN1000	12	15
IN160T			IN1600		

dimensions Fupact UC50 to UD630T

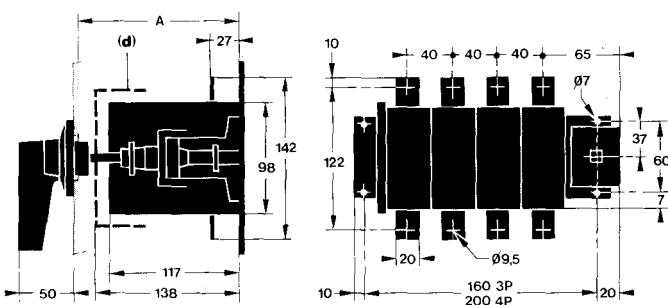
Fupact UC50



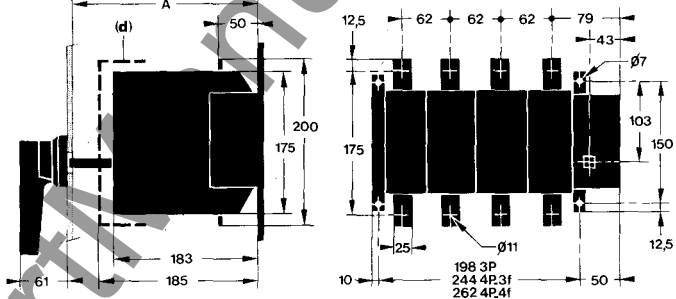
Fupact UD63



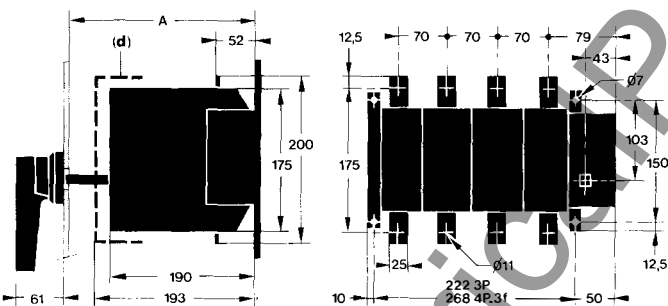
Fupact UC125/UD125/UD160



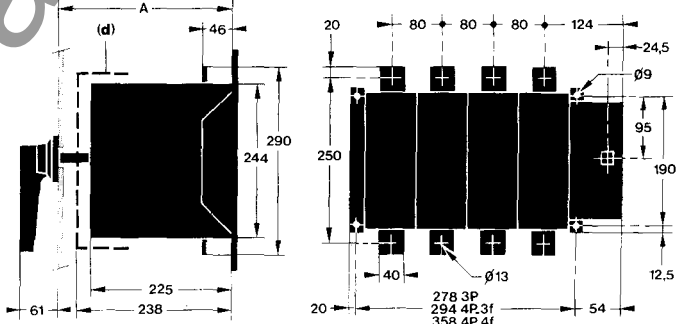
Fupact UD250T



Fupact UD400T



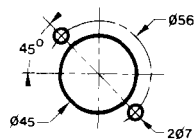
Fupact UD630T



Adjustment limits of the length of the shaft

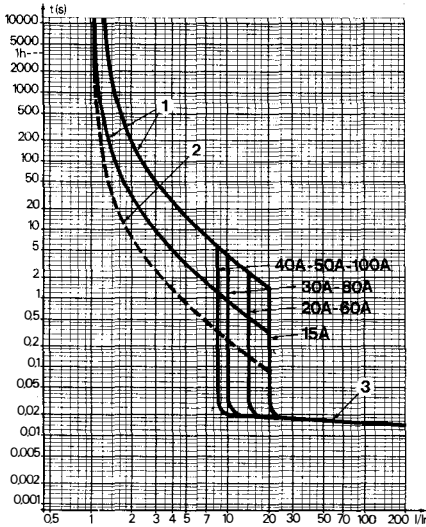
type	A (mm)	
	short shaft	long shaft
UC50	140-200	262-340
UD63	140-200	220-360
UC125, UD125, UD160	145-200	230-360
UD250T, UD400T	235-345	445-555
UD630T	260-350	340-420

Drilling of the door

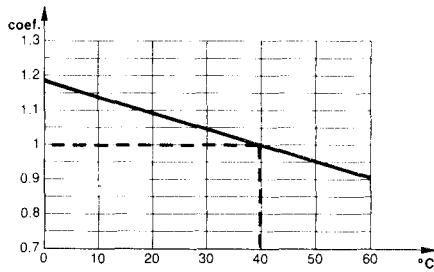


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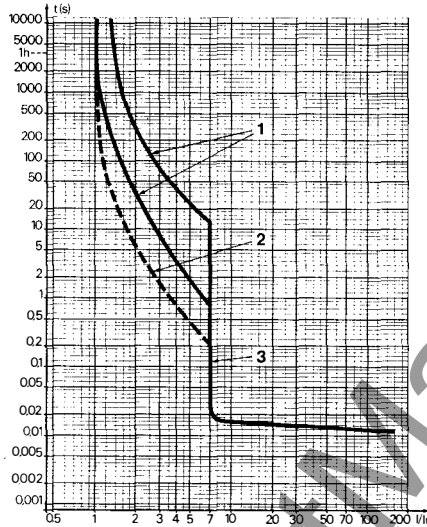
Compact C100E



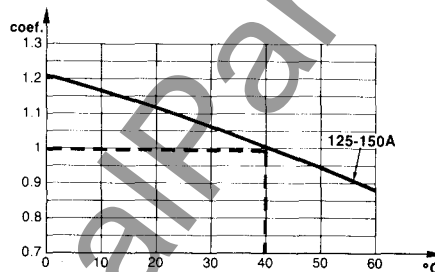
ambient compensation



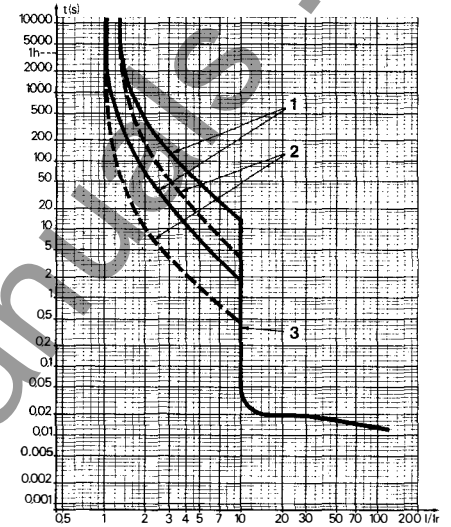
Compact C225E
trip unit release D125, D150



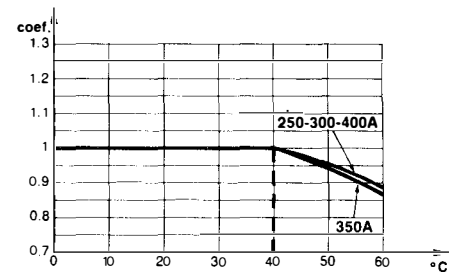
ambient compensation



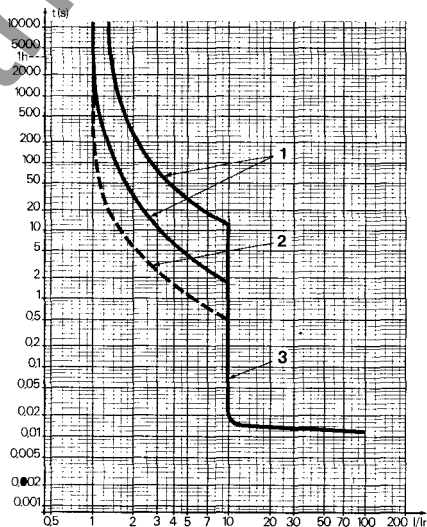
Compact C400E



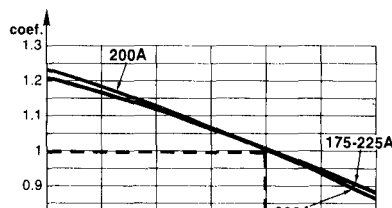
ambient compensation



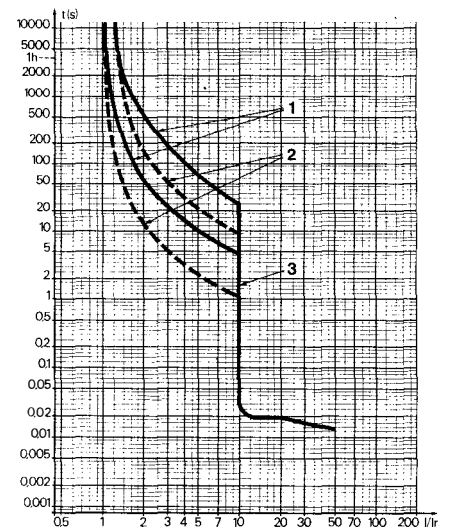
Compact C225E
trip unit release D175, D225



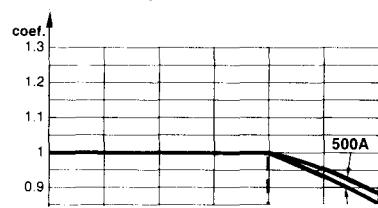
ambient compensation



Compact C600E



ambient compensation



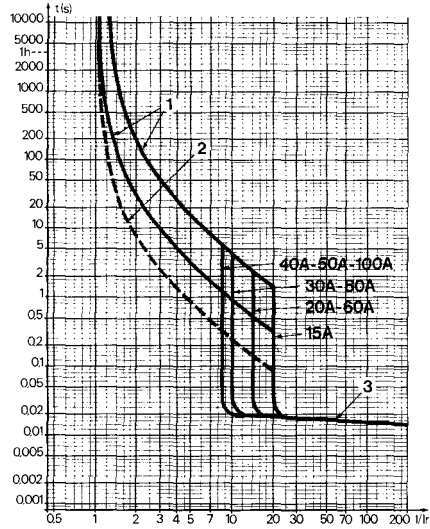
Here after the following curves:

- 1: mini and maxi thermal cold start tripping,
- 2: mini and maxi thermal hot start tripping,
- 3: magnetic threshold

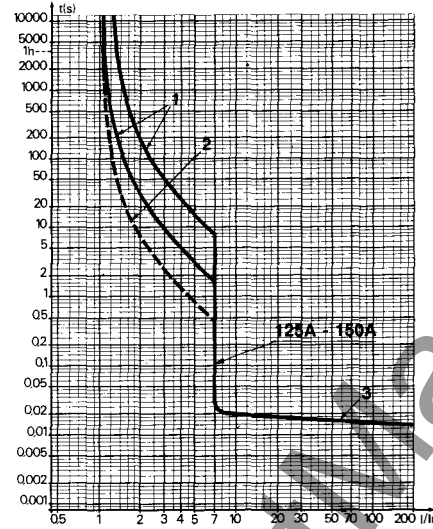
Note

■ the variation of the tripping time is given according to I/I_r (I = real current, and I_r = maximum value of the breaking trip unit rating for the ambient temperature of 40 °C)

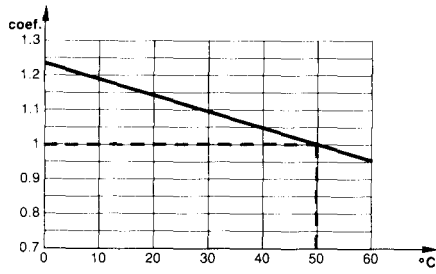
Compact C100NF (1P)



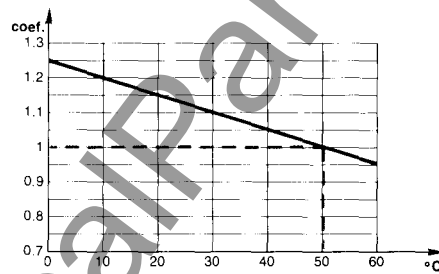
Compact F150N (1P)



ambient compensation



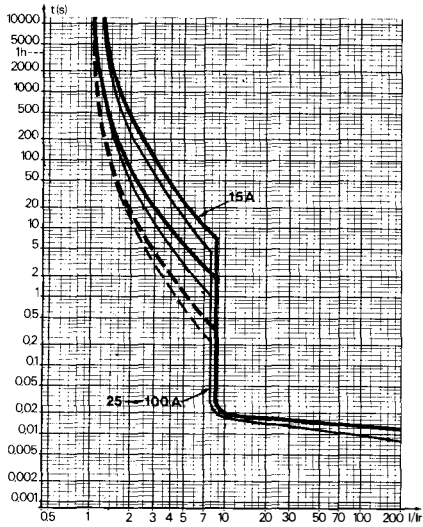
ambient compensation



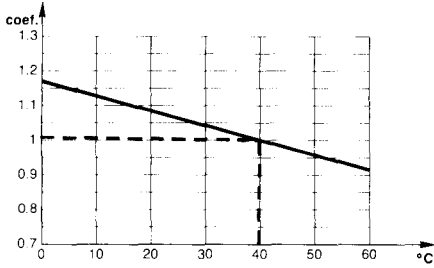
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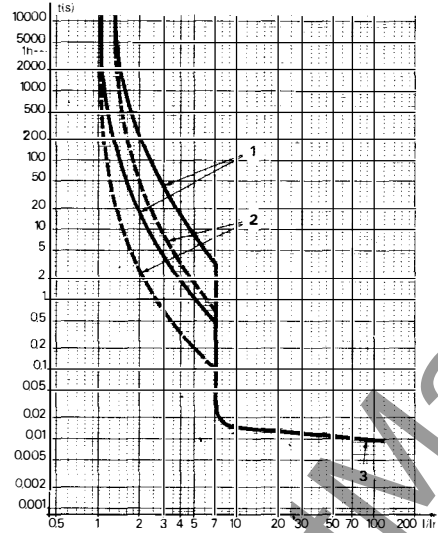
Compact C101N/H



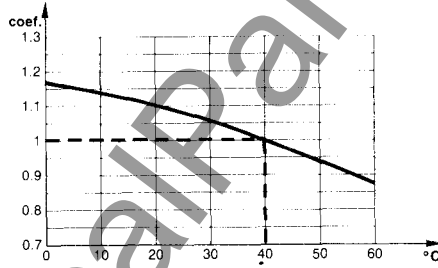
ambient compensation



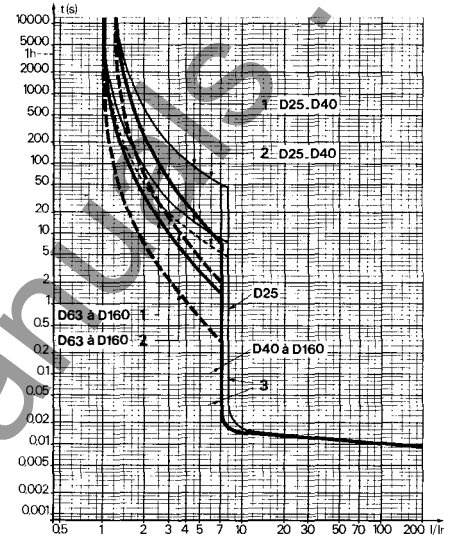
Compact C161N/H



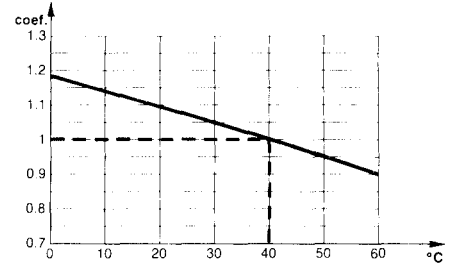
ambient compensation



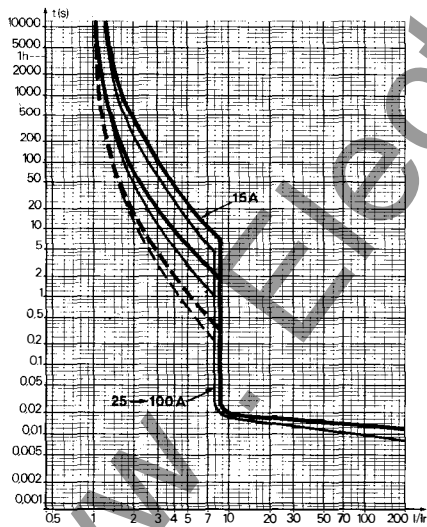
Compact TC160N



ambient compensation



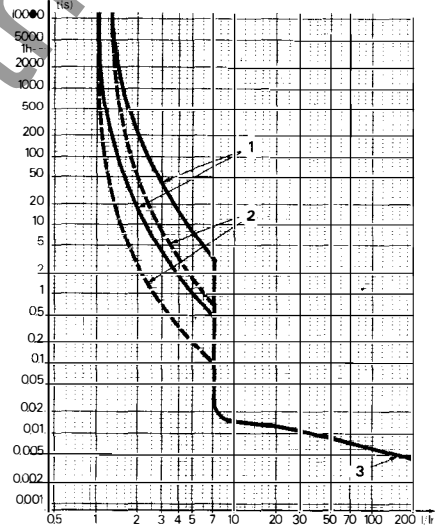
Compact C101L



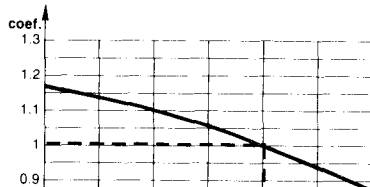
ambient compensation



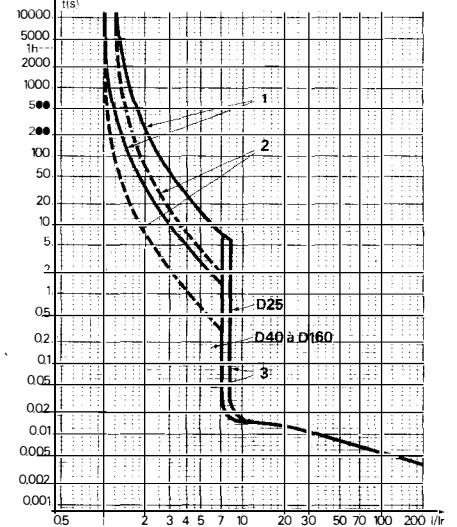
Compact C161L



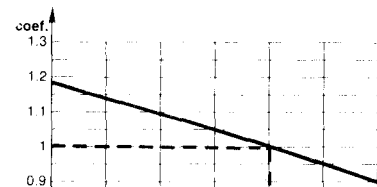
ambient compensation



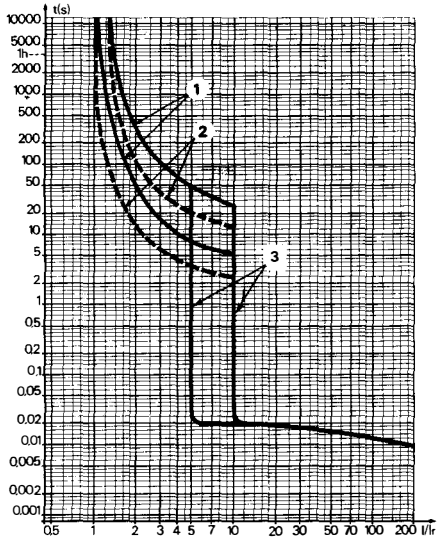
Compact TC160L



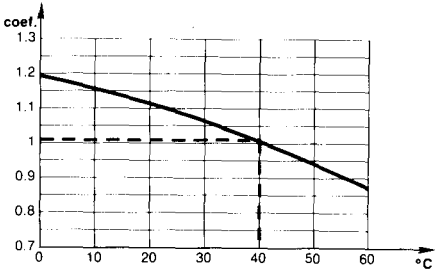
ambient compensation



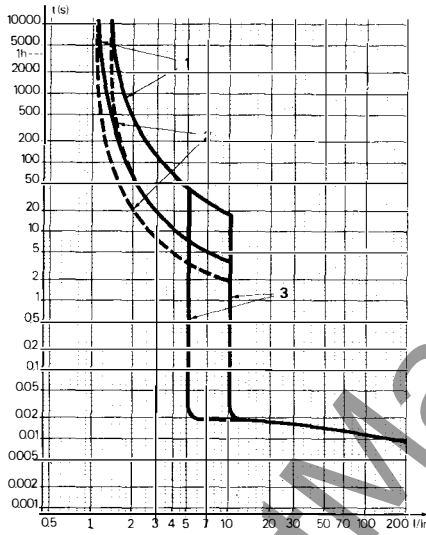
Compact C250N/H



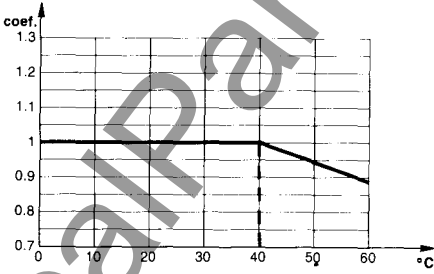
ambient compensation



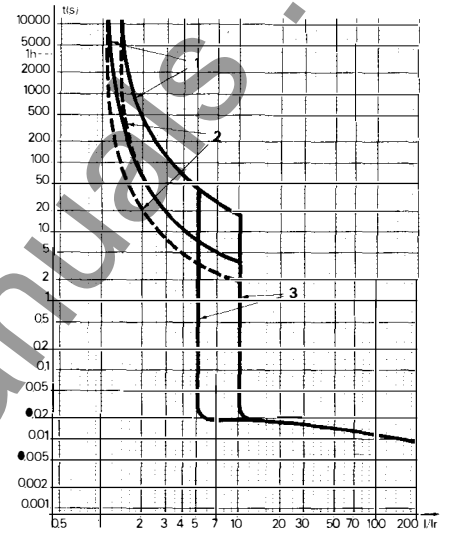
Compact C401N/H



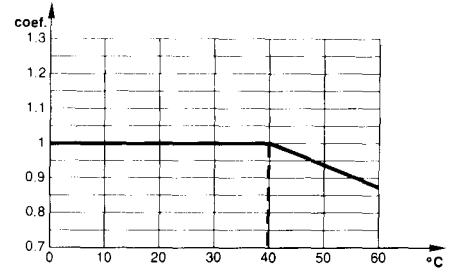
ambient compensation



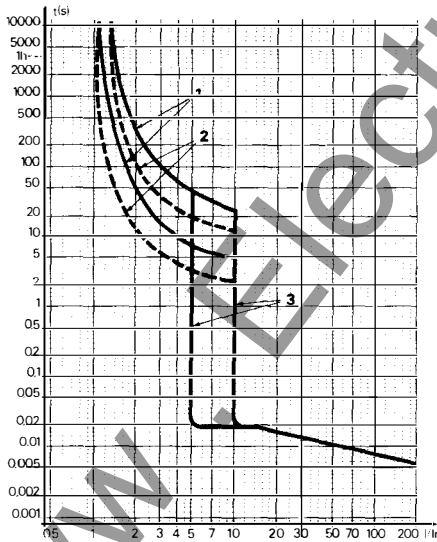
Compact C630N/H



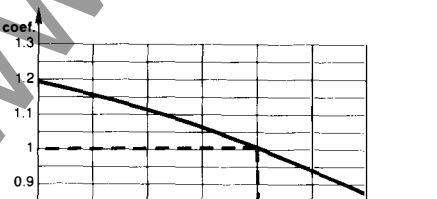
ambient compensation



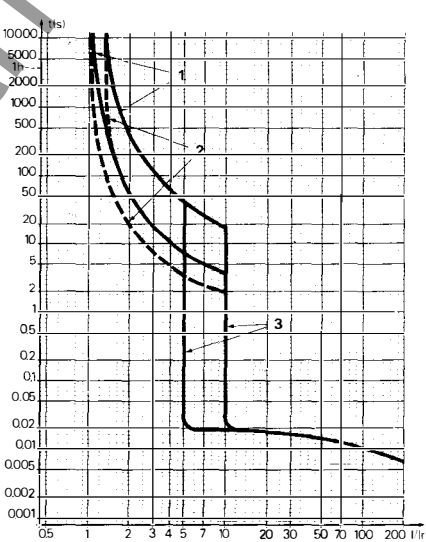
Compact C250L



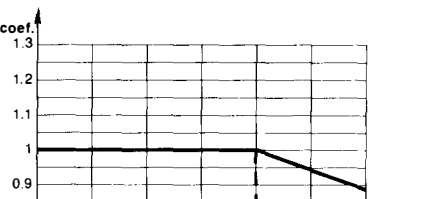
ambient compensation



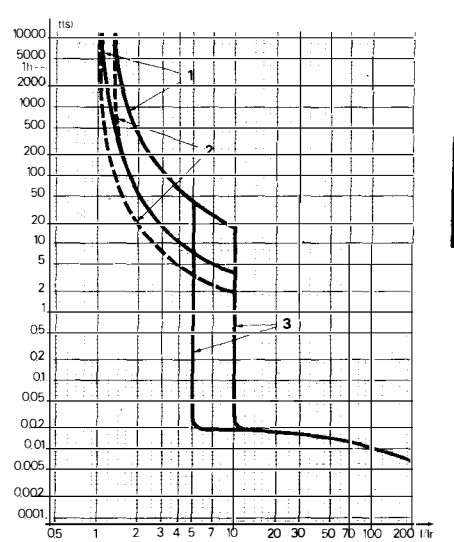
Compact C401L



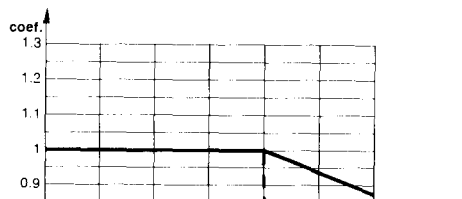
ambient compensation



Compact C630L



ambient compensation

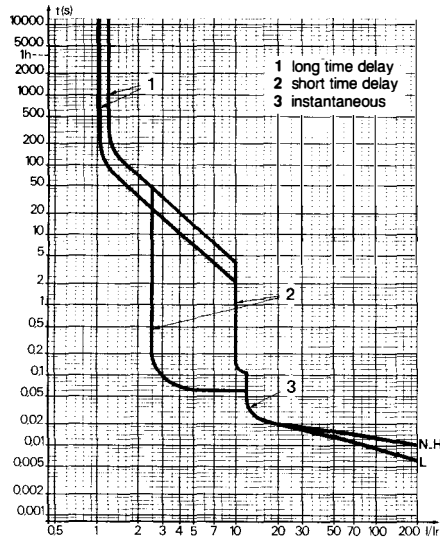


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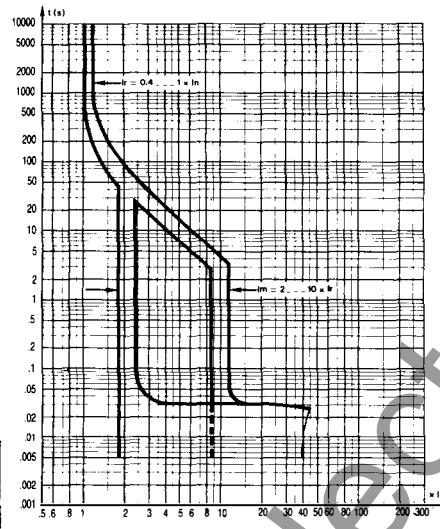
tripping curves

**Compact C400N/H/L ST and C630N/H/L ST
ST204S trip unit**

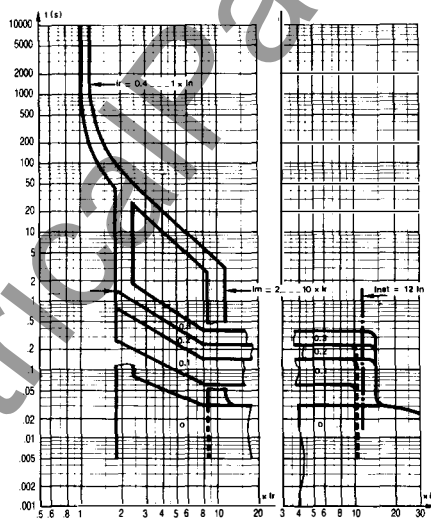


I_n = rating (CT)
 I_r = long time delay protection threshold (LR)
 I_m = short time delay protection threshold (CR)
 I_{inst} = instantaneous protection threshold
 0 - 0.1 - 0.2 - 0.3 - 0.4 = delay band of CR protection
 I_h = ground fault protection threshold
 I_{c1} = first load shedding threshold setting
 I_{c2} = second load shedding threshold setting

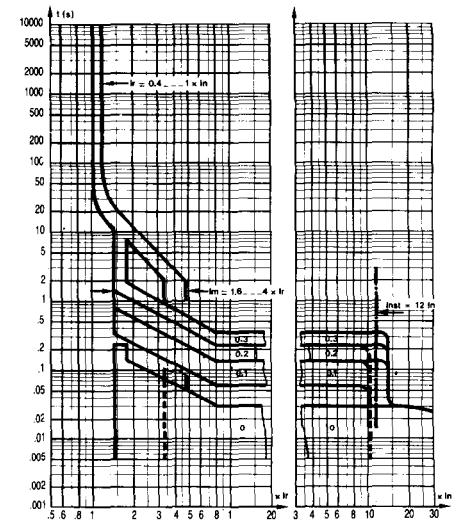
**Compact C800N/H/L ST to C1250N/H ST
ST205D trip unit**



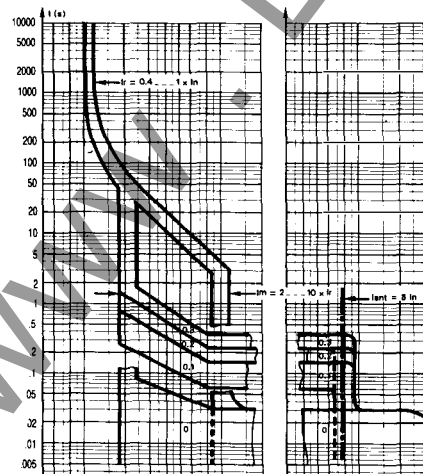
**Compact C800N/H/L ST to C1250N/H ST
ST305S trip unit**



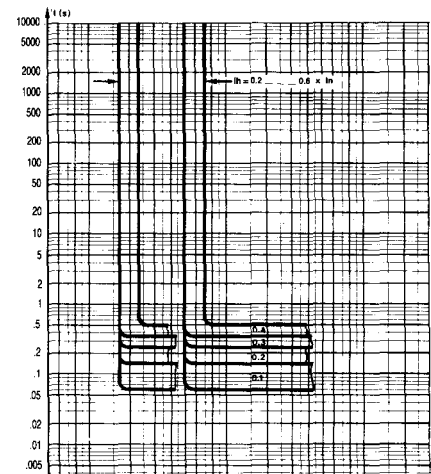
**Compact C800N/H/L ST to C1250N/H ST
ST305G trip unit**



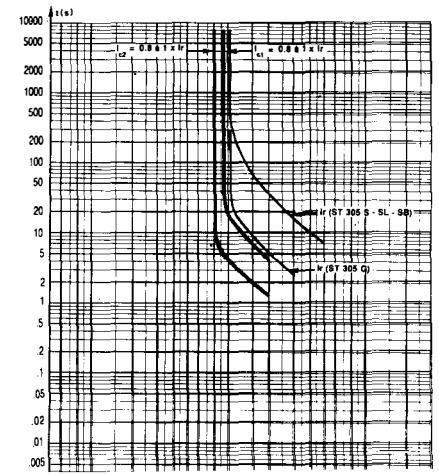
**Compact C800L ST and C1000L ST
ST305SL - ST305SB trip units**



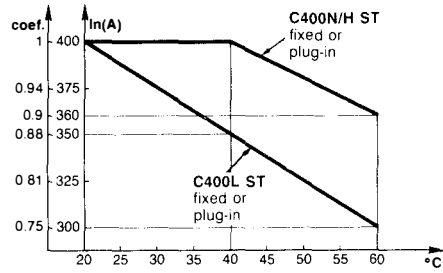
**Compact C800N/H/L ST to C1250N/H ST
Ground fault protection (T)**



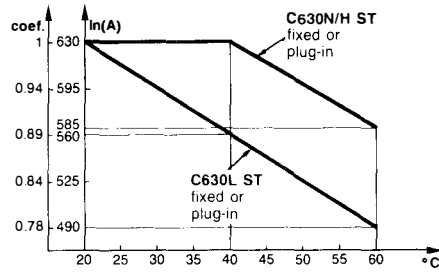
**Compact C800N/H/L ST to C1250N/H ST
Load monitoring (R)**



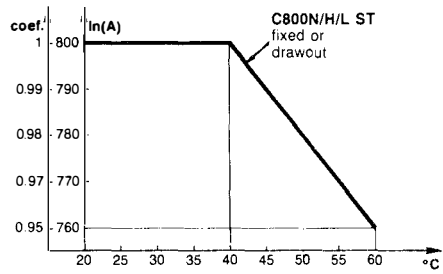
ambient compensation of C400N/H/L ST



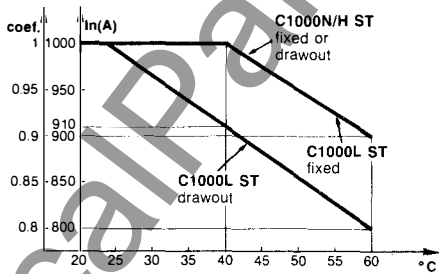
ambient compensation of C630N/H/L ST



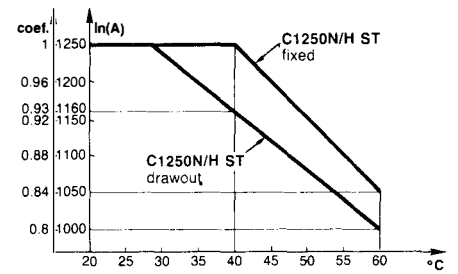
ambient compensation of C800N/H/L



ambient compensation of C1000N/H/L



ambient compensation of C1250N/H



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Compact 11 to 1250 A moulded case circuit-breakers : typical specifications

general

Moulded case circuit breakers (mccb's) shall be MERLIN GERIN make or equivalent.

Mccb's shall comply with IEC 157-1:1973 and BS 4752: Pt.1: 1977.

The breaking capacities of the circuit breakers shall be at least equal to the prospective fault level at the point of the distribution system where the breakers are installed, unless the limitation capacity of an upstream breaker allows cascading. All mccb's shall be designed for horizontal or upright mounting (except for the Compact CM, which is designed for upright mounting only) without any adverse effect on electrical performance.

construction

Operating mechanism shall be of the quick make quick break type, with the speed of operation independent of the operator, and with a trip mechanism mechanically independent of operating handle so as to prevent the contacts from being held closed against short-circuit and overload conditions. The operating mechanism shall be constructed to operate all poles in a multi-pole breaker simultaneously during opening, closing and tripped conditions.

The breakers shall be operated by a toggle which shall clearly indicate the three fundamental positions ; ON, OFF and TRIPPED.

If required, front mounting rotary handles shall be supplied, except on the Compact CM.

The breaking and extinction of the electrical arc shall be achieved by means of non-welding contacts and an arc chute surrounding these contacts.

Except for the Compact CM, the breakers shall have a positive break indication. In addition, they shall provide double insulation of the front face allowing the installation of auxiliaries without isolating the unit.

All accessories and electrical auxiliaries such as shunt trip or undervoltage release, auxiliary contact and motor mechanism shall be manufactured in such a way that they can be easily adapted on the installation premises.

The current limiting mccb's with very high breaking capacity shall be made of two parts :

- a standard circuit breaker to break small and medium fault currents,
- a current limiter block to break and limit large short-circuit currents.

The current limiter block shall be of electromechanical type (fuse free) and factory fitted to the standard breaker.

operation

Each pole of the mccb shall be provided with a bi-metallic thermal element for inverse time delay protection and a magnetic element for short-circuit protection. The thermal release shall be of the adjustable type and the adjustment device shall be equipped with a sealing facility.

Thermal magnetic trip units on mccb's of 250 A size and above shall be interchangeable.

Above 400A, the mccb's shall be available with solid state type trip units energized by an internally mounted current transformer. No external power supply shall be required to operate the tripping mechanism.

Current discrimination tables showing overload and short-circuit discrimination shall be provided for each rating of breaker.

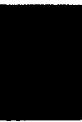
low voltage mccb's

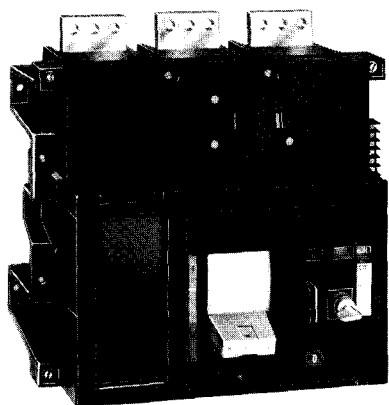
Compact CM 630 to 3200 A

6 Compact CM

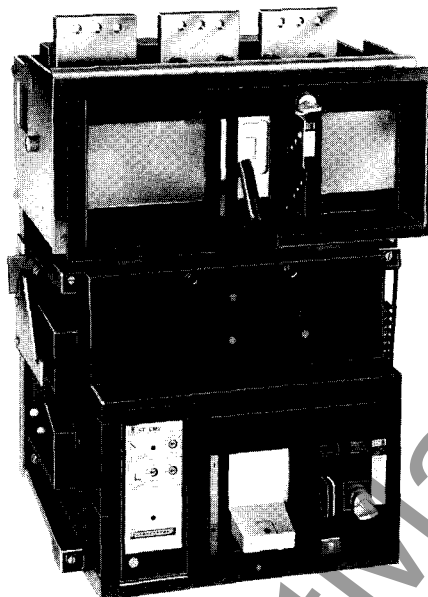
	page
presentation	144
characteristics	148
Visucompact CM1250 to 2500 A	149
remote control	150
auxiliaries	151
wiring diagrams	152
connection	153
part numbers	154
dimensions	156
tripping curves	158

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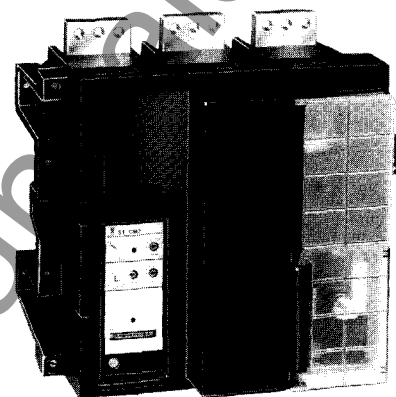




Switch



Visucompact



Compact with remote control

choice of the circuit-breaker

The source (or incoming) circuit-breaker, the main outgoing circuit-breakers, and the secondary (or divisional) outgoing circuit-breakers should be chosen so that:

- their rating is at least equal to the current rating of the outgoer considered;
- their breaking capacity is at least equal to the short-circuit current calculated at the level considered;
- discrimination can be ensured with the downstream protective device.

presentation of the range

The Compact CM1250, CM1600, CM2000, CM2500 and CM3200 circuit-breakers extend the Compact range up to 3200A. They benefit from Merlin Gerin's vast experience in insulating moulded cases, and present all the advantages of performance and functions which are the strong-points of this range. In particular, they require no maintenance whatsoever. Fitted at the outset with a solid state trip unit, they take another step forward in protection of installations. They exist in three-pole and four-pole versions⁽¹⁾. They are fixed and front connecting. They come in two versions: a standard version and a type H version with a higher breaking capacity.

high performances

Breaking capacity

The breaking capacity is the same whatever the rating of the equipment:

- standard version: 70 kA rms under 380/415 V (according to IEC-P1);
- type H version: 85 kA rms under 380/415 V (according to IEC-P1)⁽²⁾.

Discrimination

The Compact CM enables full

standards

The Compact CM complies with the following standards:

- IEC 157-1
- UTE NF C 63-120
- VDE 0660
- BS 4752
- UL 489
- JIC C 8370 (consult us)

circuit protection and control function

The CM1250 to CM3200 circuit-breakers fitted with the STCM1 trip unit ensure protection and control of circuits.

function of protective device discrimination on short-circuits

The CM1250 to CM3200 circuit-breakers fitted with STCM2 or STCM3 trip units⁽¹⁾ enable time discrimination to be obtained up to the instantaneous trip threshold (35 kA rms). This characteristic makes full discrimination with most Compact circuit-breakers possible.

other functions

Control of circuits

The Compact CM1600I to CM3200I switch is identical in presentation to the Compact CM circuit-breaker. Its auxiliaries and accessories are identical to those of the Compact CM.

Positive break indication.

The Compact CM gives a positive break indication. The handle can only indicate the "OFF" position if all the contacts are actually open and separated by a suitable distance. Similarly, it is only in this position that padlocking is possible. If the equipment has an auxiliary contact block, this position is also visualized by an additional

Visible break disconnection.

A variant, the Visucompact CM, complying with French Standard C13-100, performs visible breaking⁽¹⁾.

remote control

The remote control performs opening and closing of the Compact CM on orders coming from push-buttons, changeover switches or relays. It is fixed to the front face of the circuit-breaker.

tropicalization

The Compact CM circuit-breakers, their variants and accessories are tropicalized and adapted for use in the following climatic conditions:

They meet treatment 2 from NF C 63-100 standards. Rate of relative humidity is 95 % at 45 °C, or 80 % at 55 °C (hot and humid climates).

installation

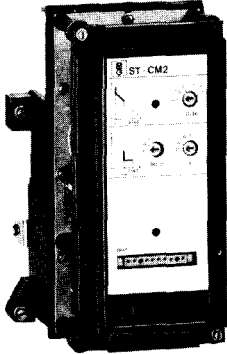
The Compact CM is installed on a panel or on metal supports. It is fixed at 4 points accessible from the front, and located on the rear vertical plane. For control access through the door, two cut-outs can be envisaged:

- either to the control handle alone, with the position indicators and locking devices,
- or, in addition to the above parts, to the trip unit setting adjustments.

The equipment can be supplied from upstream or downstream indifferently.

⁽¹⁾ The CM3200 is not available in a four-pole version.

STCM trip unit



STCM2

The STCM is a solid state trip unit fitted to all the Compact CM circuit-breakers. It is supplied by sensors built into the circuit-breaker, and operates **without an auxiliary supply source**. The settings are accessible from the front. Three types of trip unit are available:

- **the STCM1** for protection against:
 - overloads (long time delay), adjustable.
 - short-circuits (instantaneous), adjustable.

- **the STCM2** has a wider adjustment range than the STCM1. It offers the possibility of time **discrimination** and provides protection against:
 - overloads (long time delay), adjustable.
 - short-circuits, adjustable threshold and time delay (short time delay).

Discrimination is obtained on settings A, B, C and setting 0 gives instantaneous tripping.

- **the STCM3** carries out the same functions as the STCM2, with in addition a high threshold earth fault protection (greater than 500 A).

Protection testing

On the STCM2 and STCM3, a connector enables the user to check the processing unit by means of a multi-voltage test kit supplied on option.

Fault indication

When tripping on a fault occurs, it is indicated in two ways:

- mechanically by the red SDE indicator,
- electrically by closing microswitch.

SDE operation

- local manual resetting: the SDE has to be pressed in to close the circuit-breaker.
- automatic resetting: it is not necessary to press the SDE in to close the circuit-breaker.

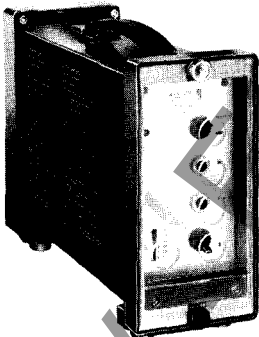
Selection of setting

The trip unit operating threshold can be adjusted as a function of the circuit-breaker sensor current ratings **In** given below.

Compact CM	1250	1600	2000	2500	3200
Phase In	1250	1600	2000	2500	3200
Neutral In	630	800	1000	1250	—

Adjustment of the setting is carried out on all the poles simultaneously, including neutral for the four-pole Compact with protected neutral.

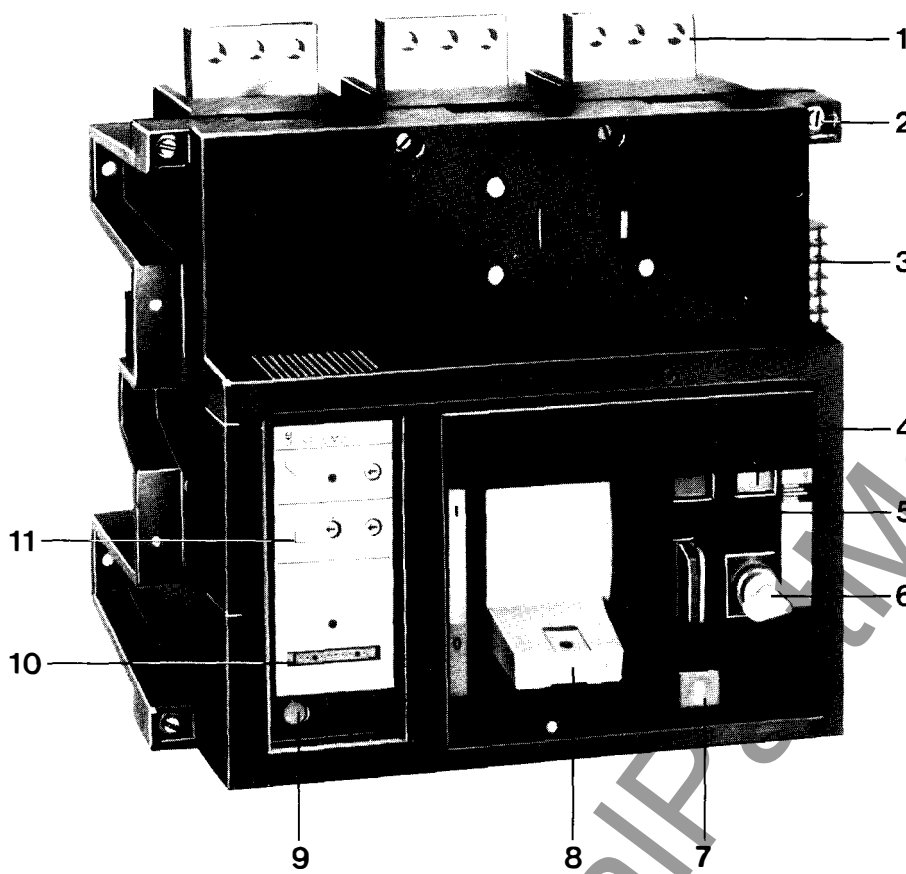
test kit



A portable test kit with connecting cables can be used to test the STCM2 or STCM3 type trip units.

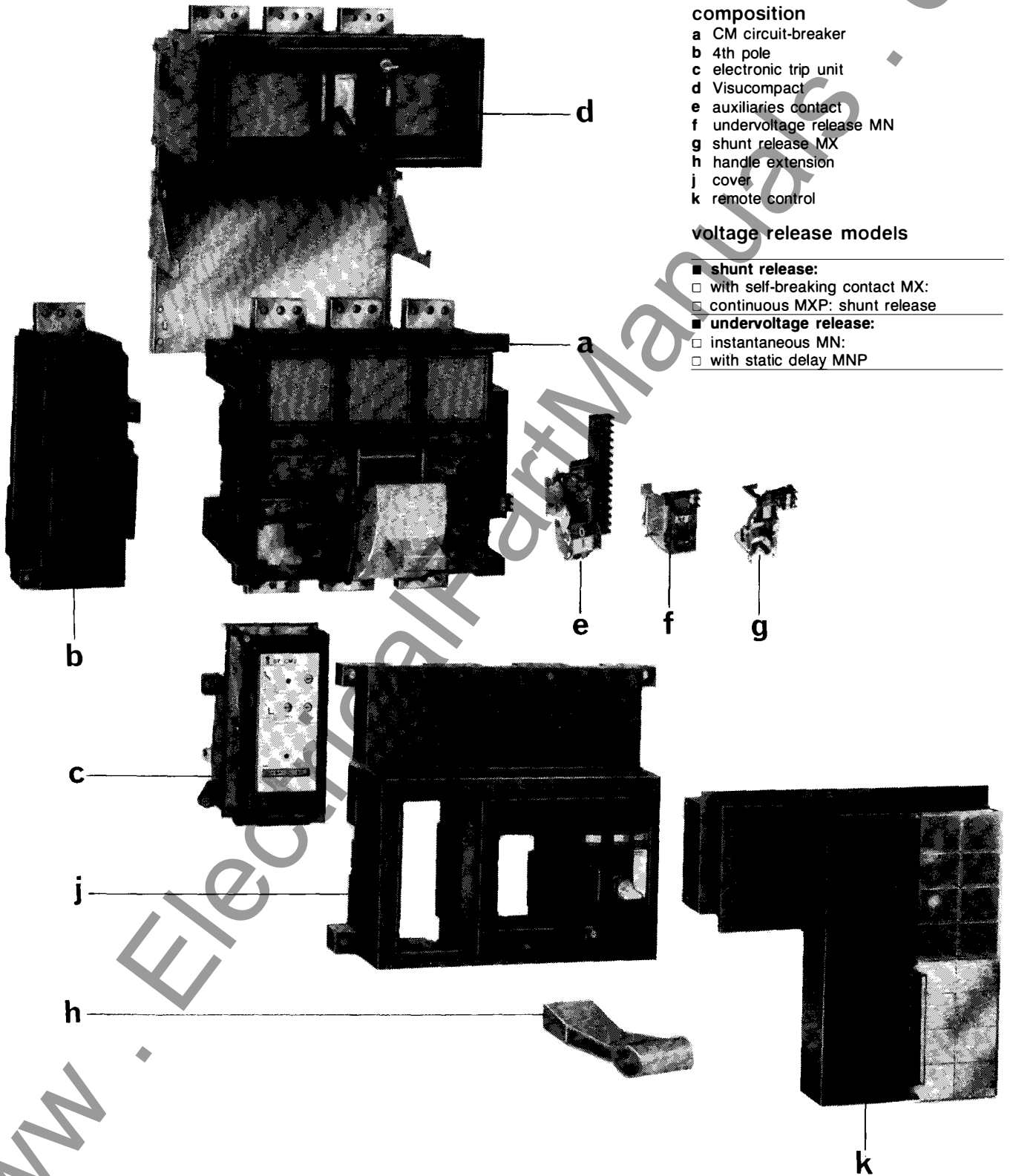
The voltage supply to this test kit can be 110-127-220-240 V (50/60 Hz).

Compact CM presentation



CM circuit-breaker

- 1 terminal pad
- 2 cover fixing screw
- 3 auxiliary circuit connection terminal block
- 4 main and auxiliary contact position indicator
- 5 padlocking device
- 6 key-locking device
- 7 opening push-button
- 8 operating handle and position indicator
- 9 SDE: fault current trip indicator; the SDE is used for local resetting
- 10 test kit connector
- 11 long and short time delay protection with time delay setting adjustment.



composition

- a CM circuit-breaker
- b 4th pole
- c electronic trip unit
- d Visucompact
- e auxiliaries contact
- f undervoltage release MN
- g shunt release MX
- h handle extension
- j cover
- k remote control

voltage release models

- **shunt release:**
 - with self-breaking contact MX:
 - continuous MXP: shunt release
- **undervoltage release:**
 - instantaneous MN:
 - with static delay MNP

Compact CM electrical characteristics

Dimensions
Part numbers
Presentation

page 156
page 154
page 144

Compact type		CM1250	CM1250H	CM1600	CM1600H	CM2000	CM2000H	CM2500	CM2500H	CM3200	CM3200H					
rated current	40 °C	1250	1250	1600	1600	2000	2000	2500	2500	3200	3200					
	45 °C	1250	1250	1540	1540	1930	1930	2410	2410	3100	3100					
	50 °C	1250	1250	1470	1470	1840	1840	2310	2310	3000	3000					
	55 °C	1250	1250	1400	1400	1750	1750	2200	2200	2800	2800					
	60 °C	1250	1250	1330	1330	1660	1660	2075	2075	2700	2700					
rated voltage (V) AC		660	660	660	660	660	660	660	660	660	660					
dielectric test voltage (V) AC		3000	3000	3000	3000	3000	3000	3000	3000	3000	3000					
		2500 for auxiliary circuits (do not carry out a dielectric test on the STCM trip unit)														
number of poles		3,4	3,4	3,4	3,4	3,4	3,4	3,4	3,4	3	3					
4th pole rating (A)		1250	1250	1250	1250	1250	1250	1250	1250							
breaking capacity (kA rms) in AC	220/240 V	85	125	85	125	85	125	85	125	85	85					
	380/415 V	70	85	70	85	70	85	70	85	70	85					
	IEC-P1 440 V	50	85	50	85	50	85	50	85	50	85					
	UTE-P1 500 V	50	50	50	50	50	50	50	50	50	50					
	VDE-I ¹ -K2 600 V	50	50	50	50	50	50	50	50	50	50					
	BS 4752-P1 660 V	50	50	50	50	50	50	50	50	50	50					
NEMA	240 V	85	125	85	125	85	125	85	125	85	125					
	480 V	65	85	65	85	65	85	65	85	65	85					
	600 V	50	50	50	50	50	50	50	50	50	50					
making capacity (kA peak) in AC	380 V	150	187	150	187	150	187	150	187	150	187					
	440 V	110	187	110	187	110	187	110	187	110	187					
	500 V	110	110	110	110	110	110	110	110	110	110					
	600 V	110	110	110	110	110	110	110	110	110	110					
	660 V	110	110	110	110	110	110	110	110	110	110					
three-phase power loss (W)	circuit-breaker	210	210	330	330	390	390	525	525	700	700					
	Visucompact	300	300	480	480	540	540	750	750							
maximum break time (ms)		50	50	50	50	50	50	50	50	50	50					
endurance (CO cycles)	mechanical	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000					
	electrical at In/380 V	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000					
weight (kg)	3P	41	41	41	41	46	46	63	63	83	83					
	4P	56	56	56	56	61	61	78	78							
switch version																
electrodynamic withstand (kA)				65		65		65		65						
thermal withstand (3 s) (kA rms)				32		32		32		32						
weight (kg)	3P			37		42		59		79						
	4P			52		57		74								
Visucompact version																
weight (kg)	3P	64		64		73		92								
	4P	86		86		95		114								
degree of protection		IP405	IP405	IP405	IP405	IP405	IP405	IP405	IP405	IP405	IP405					
tropicalization		ambient temperature 45 °C and 95 % relative humidity or ambient temperature 55 °C and relative humidity 80 %														
solid state trip unit				STCM1			STCM2			STCM3						
mounting on Compact CM	3P			■		■				■ (1)						
	4P, unprotected neutral			■		■										
	4P, protected neutral					■										
long time delay protection	$I_r = I_n \times \dots$	0.5-0.6-0.7-0.8-0.9-1					0.5-0.6-0.7-0.8-0.9-1					0.5-0.6-0.7-0.8-0.9-1				
	tripping between:	1.05 and 1.25 I_r					1.05 and 1.25 I_r					1.05 and 1.25 I_r				
short time delay and instantaneous protection ⁽²⁾	$I_m = I_r \times \dots$	3-4-5-6					2-4-6-8					2-4-6-8				
	accuracy	± 20 %					± 15 %					± 15 %				
	setting of time delay	none					0 A B C					0 A B C				
	maximum resettable time (ms)	0					0 35 125 225					0 35 125 225				
earth fault protection	$I_t = I_n \times \dots$	50					50 120 220 330					50 120 220 330				
	accuracy											0.2-0.3-0.4-0.5				
	setting of time delay											± 15 % ⁽³⁾				
	maximum resettable time (ms)											0 0.1 0.2 0.3				
												0 135 235 345				
												130 230 340 460				

(1) For systems with distributed but unswitched neutral, a 4th sensor can be supplied separately or fitting according to installation instructions. The Statipact STCM3 cannot be fitted to the 3200A Compact CM or four-pole Compact CM.

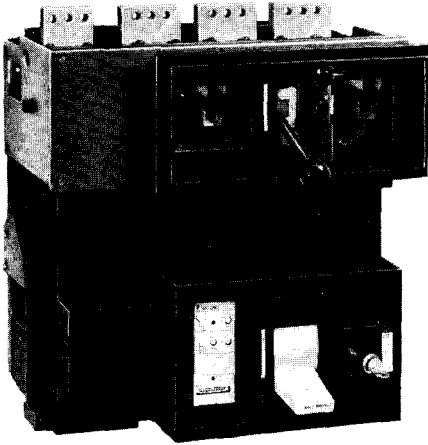
(2) All the Compact CM circuit-breakers incorporate an instantaneous tripping threshold set at 35 kA rms in addition to the instantaneous delay.

Compact CM

Visucompact CM1250 to 2500

Dimensions
Part numbers

page 157
page 154



presentation

The Visucompact CM is a three or four-pole unit comprising:

- a disconnecter for visible break disconnection.
- a fixed Compact CM circuit-breaker for control and protection against overcurrents.

The disconnection function is carried out by high electro-dynamic withstand self-compensated finger contacts, which make the electrical connection by direct engagement on the upstream side of the circuit-breaker.

The position of the contacts can be seen directly through a transparent screen.

A pretipping system prevents on-load disconnection. The disconnecter is always fitted with an "open" position padlocking device for 3 padlocks (not supplied).

The Visucompact CM complies with the standards:

C 13-100 on consumer sub-stations.

C 15-100 on electrical installation operation and maintenance.

installation

The Visucompact CM is delivered in three separate elements:

- a disconnecter mounted on a mounting plate
- a fixed Compact CM circuit-breaker
- the fitting accessories.

The disconnecter mounting plate is provided with guides to make circuit-breaker installation easier.

The electrical connection between the two units being by means of the high-pressure finger contacts, the circuit-breaker can easily be disconnected after the downstream connections have been removed.

characteristics

Disconnecter characteristics are at least equivalent to those of circuit-breakers on which they are used.

The Visucompact CM therefore offers the same performances as the Compact CM⁽³⁾.

Visucompact type	CM1250 to CM2500
rated voltage	660 V AC
number of poles	3 or 4

The other characteristics are identical to those of the Compact CM.

electrical auxiliaries, accessories and locking devices

All the Compact CM auxiliaries can be fitted to the Visucompact CM. Moreover, the disconnecter can accept:

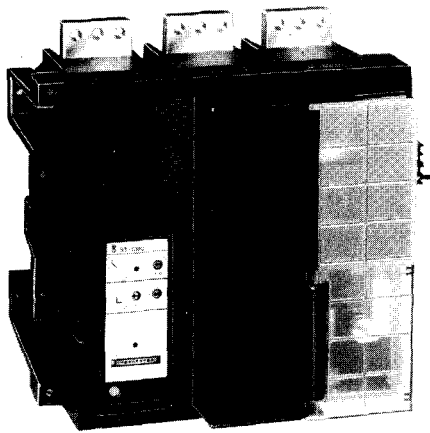
- 1 unit of 2 auxiliary contacts⁽¹⁾.
- a device for locking in "open" position by Profalux B24-D4-Z key-lock (lock supplied)⁽²⁾.
- a door interlock (the door can only be opened if the disconnecter is open).

(1) Changeover type with common point. Characteristics identical to those of the Compact CM OF contact.
(2) Key shape identical to the Profalux V11-18. On

Compact CM remote control

Dimensions
Part numbers
Wiring diagram

page 157
page 155
page 152



presentation

The remote control opens and closes the Compact CM from a distance on orders from push-buttons, changeover switches or relays.

It is fitted to the front face of the CM1250 and CM3200 circuit-breakers and the Visucompact. Like the Compact CM, the remote control does not require any maintenance.

description

Equipped with gear motor, the remote control ensures charging of operating mechanism and closing of the circuit-breaker in the same cycle.

- remote opening is carried out by the MX shunt release or the MN or MNR undervoltage release.
- local opening is carried out by a pushbutton.

The state of the circuit-breaker is given by an indicator:

- white: circuit-breaker closed.
- green: circuit-breaker open.

These two indicators give a positive break indication.

A handle fitted on the front face enables the circuit-breaker to be operated locally. When local operation takes place, the remote electrical closing orders are locked.

use

- remote control and protection of circuits with a low operating rate;
- daily opening and closing of a circuit from a control desk;
- non-priority circuit load-shedding and restoring control.

installation

The remote control can be installed on the whole range of Compact CM circuit-breakers having either a shunt trip unit (MX) or an undervoltage release unit (MN). It is fitted to the front of the circuit-breaker⁽¹⁾.

electrical characteristics

Compact type		Compact CM1250 to CM3200							
supply voltage (A)	AC	50 Hz	48	110	127	220	240	380	415
		60 Hz	120	127	240	265	277	440	480
	DC		24	30	48	100	110	125	220
consumption on closing	AC (all voltages)	VA	700						
	DC (all voltages)	W	700						
reponse time (under Un)		closing: T < 1.5 s							
		opening: circuit-breaker opening time							
operating limits		voltage: 0.85 to 1.1 Un at 40 °C							
endurance CO cycles (IEC)		10 000							
max operating rate		2 cycles per minute							
fault contact (SDE)		■							

Compact CM electrical auxiliaries and accessories

Part numbers
Wiring diagram

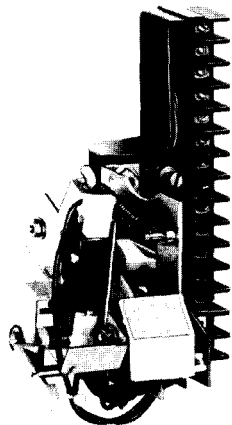
page 155
page 152

installation of auxiliaries

Auxiliaries can be easily fitted without adjustment by means of 2 fixing screws. Each auxiliary unit has a precabled connection terminal (except the SDE

contact which has to be wired to 2 separate terminals supplied). This terminal is accessible from the front without removing the cover.

auxiliary contacts



4 OF + SD unit

- 1 unit including 2 OF contacts of changeover type with common point to indicate open or closed;
- 1 unit including 4 OF contacts of changeover type with common point to indicate open or closed, associated with an SD contact of changeover type with common point which indicates the circuit-breaker discharged position following tripping either by the static trip unit or by the voltage release units;
- 1 SDE contact (electrical fault signal), a closing contact which indicates circuit-breaker discharged position following tripping by the static trip unit only. This contact cannot be fitted in Compact CM load break switches.

Fitting possibilities

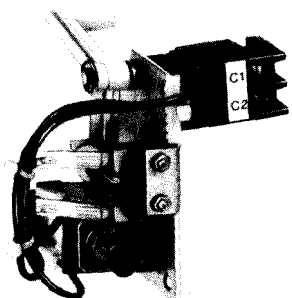
In addition to the voltage release, each circuit-breaker can accept auxiliary contacts in the combinations given below:

OF	SD	SDE
2		1
4	1	1
4		1

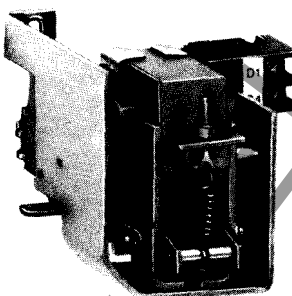
Electrical characteristics

auxiliaries type		OF	SD	SDE
rated current (A)		2	2	2
breaking capacity	AC 240V	6	5	2
	480V	6	5	
	600V	3	3	
DC	24V	3	3	2
	48V	3	3	1.2
	125V	0.5	0.5	0.4
	250V	0.25	0.25	0.2

voltage releases



Shunt trip unit (MX)



Undervoltage release unit (MN)

Fitting possibilities

Whatever the type of Compact CM, its rating and the number of poles, only one voltage release can be fitted per circuit-breaker, either:

- an undervoltage release
- instantaneous (MN),

delayed action by static time delay (MNR);

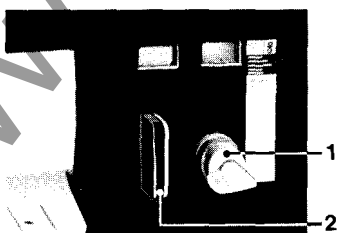
- or a shunt trip
- with self-breaking contact (MX),
- continuous (MXP). A derivative of the MX trip unit, it can remain continuously under voltage to prevent closing.

Electrical characteristics

supply voltage	see page 155		
undervoltage release unit	operation between 0.35 and 0.7 Un		
instantaneous (MN)	consumption (all voltages)	inrush	hold
	AC (VA)	200	80
	DC (W)	45	3
time delayed (MNR)	opening time	50 ms	
	accessories:	static time delay set from 0.5 to 1 s	
shunt trip unit	operation between 0.7 and 1.1 Un		
self-breaking (MX)	consumption (all voltages)	inrush	
	AC (VA)	110	
	DC (W)	120	
shunt trip unit	opening time	50 ms	
	continuous (MXP) ⁽¹⁾	operation between 0.7 and 1.1 Un	
consumption (all voltages)	inrush	hold	
	AC (VA)	200	80
	DC (W)	45	3
opening time	50 ms		

(1) a derivative of the MN trip unit, it can remain continuously under voltage while preventing closing.

locking devices



- On illustration opposite:
- 1 - key-lock
 - 2 - padlock device

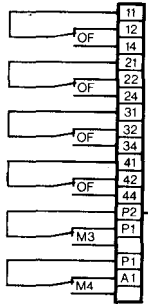
The following locking devices can be supplied on request:

- open position padlocking device (padlock not supplied).
- a device for locking in open position by Profalux KS5B24 key-lock supplied, key shape identical to Profalux V11-18. On request, Ronis N2070 type lock, key shape identical to Ronis 1104 or EL11AP.

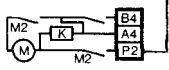
Compact CM wiring diagrams

Wiring diagram with: remote control

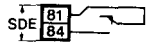
right-hand terminal block



Remote control terminal block



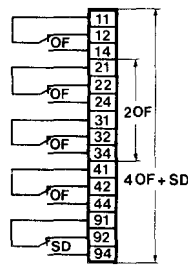
Left-hand terminal block



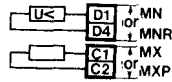
used for internal operation of remote control

manual control

right-hand terminal block

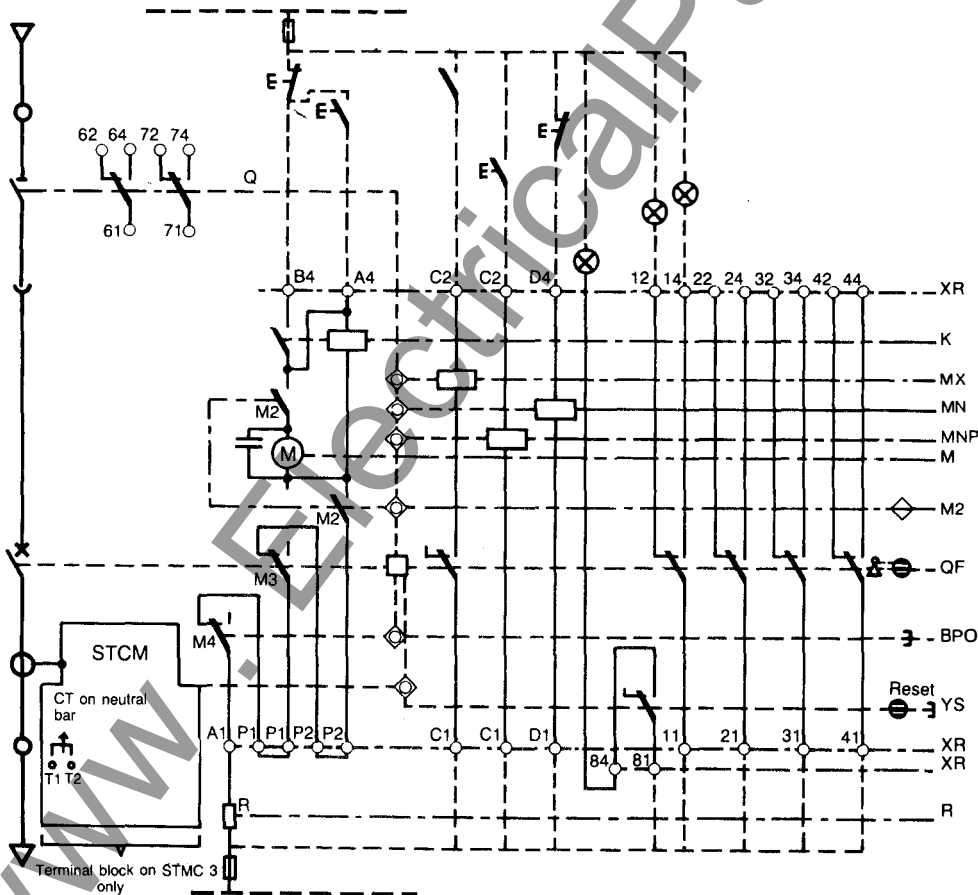


Voltage releases



- XR connection terminals
- K self-supply relay
- MX shunt release with self-breaking contact
- MN undervoltage release
- MXP continuous shunt release
- M electrical operating mechanism motor
- M2 cover opening interlock
- QF CM circuit-breaker
- BPO opening pushbutton
- YS fault trip lock-out and reset
- SDE fault trip indication
- XR connection terminals
- R additional resistance for $U > 220$ V AC or DC

diagram no. 698596 for local manual reset



Compact CM connection

Compact CM connection

For the 1250, 1600 and 2000A ratings, the equipment is supplied with bare terminals. A set of orientable connectors can be supplied on option. The bars can then be fitted in all the usual directions.

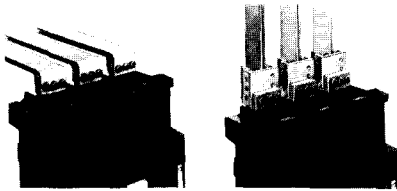
For the 2500A rating, the disconnector is always supplied with a set of orientable connectors per phase.

These connectors must be used to connect the bars.

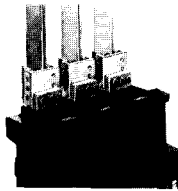
However, the neutral terminal is supplied bare. A set of connectors can be supplied for this terminal as an optional extra.

For the 3200A rating, the basic circuit-breaker includes connectors enabling connection to be made by means of horizontal edgewise bars.

1250-1600-2000A ratings

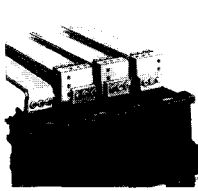


Horizontal or vertical flat bars on bare terminals.

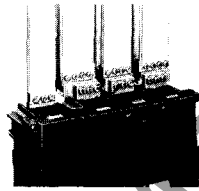


Horizontal or vertical edgewise bars with connectors.

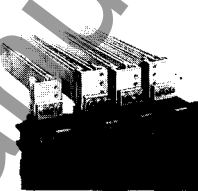
2500A rating



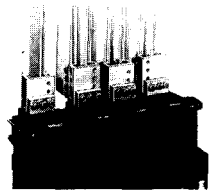
Horizontal flat bars with connectors.



Vertical edgewise bars with connectors.

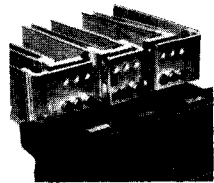


Horizontal edgewise bars with connectors.



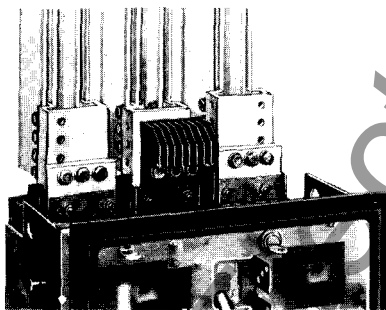
Vertical edgewise bars with connectors.

3200A rating



Horizontal edgewise bars with connectors.

Visucompact CM connection



The method of connection to the (upstream) disconnector terminals is the same as for the Compact CM. Only the distance between fixing centres and the dimensions of the terminal differ (see overall dimensions).

The connectors are the same as for the Compact CM, and the bar orientation and arrangement possibilities are the same.






As for the Compact CM, the 2500A rating must be connected by means of the connectors supplied with the equipment.

Compact CM CM1600 to CM3200






Compact CM mccb's Visucompact CM Compact CM type I switches

Auxiliaries and accessories opposite page
Characteristics page 148
Dimensions, tripping curves pages 156-158
Presentation page 144





Compact CM

			trip unit	3P 3t	4P 3t	4t	3t + N/2	4th earth fault protection sensor (fitted outside the circuit-breaker, with STCM3 only)
Compact CM1250	fixed FC		STCM1	55400	55406			1250 A
			STCM2	55411	55417	55422	55528	
			STCM3	55427				
Compact CM1600	fixed FC		STCM1	55401	55407			1600 A
			STCM2	55412	55418	55423	55529	
			STCM3	55428				
Compact CM2000	fixed FC		STCM1	55402	55408			2000 A
			STCM2	55413	55419	55424	55530	
			STCM3	55429				
Compact CM2500	fixed FC		STCM1	55403	55409			2500 A
			STCM2	55414	55420	55425	55531	
			STCM3	55430				
Compact CM3200	fixed FC		STCM1	55405				
			STCM2	55416				





Compact CM type H

			trip unit	3P 3t	4P 3t	4t	3t + N/2	4th earth fault protection sensor (fitted outside the circuit-breaker, with STCM3 only)
Compact CM1250H	fixed FC		STCM1	55433	55439			1250 A
			STCM2	55444	55450	55455	55528	
			STCM3	55460				
Compact CM1600H	fixed FC		STCM1	55434	55440			1600 A
			STCM2	55445	55451	55456	55529	
			STCM3	55461				
Compact CM2000H	fixed FC		STCM1	55435	55441			2000 A
			STCM2	55446	55452	55457	55530	
			STCM3	55462				
Compact CM2500H	fixed FC		STCM1	55436	55442			2500 A
			STCM2	55447	55453	55458	55531	
			STCM3	55463				
Compact CM3200H	fixed FC		STCM1	55438				
			STCM2	55449				

Visucompact CM

			trip unit	3P 3t	4P 3t	4t	3t + N/2	4th earth fault protection sensor (fitted outside the circuit-breaker, with STCM3 only)
Visucompact CM1250	fixed FC		STCM1	55466	55470			1250 A
			STCM2	55474	55478	55482	55528	
			STCM3	55486				
Visucompact CM1600	fixed FC		STCM1	55467	55471			1600 A
			STCM2	55475	55479	55483	55529	
			STCM3	55487				
Visucompact CM2000	fixed FC		STCM1	55468	55472			2000 A
			STCM2	55476	55480	55484	55530	
			STCM3	55488				
Visucompact CM2500	fixed FC		STCM1	55469	55473			2500 A
			STCM2	55477	55481	55485	55531	
			STCM3	55489				

Compact CM switches

			rating (A)	3P	4P
Compact CM1600I	fixed FC		1600	55490	55494
Compact CM2000I	fixed FC		2000	55491	55495
Compact CM2500I	fixed FC		2500	55492	55496
Compact CM3200I	fixed FC		3200	55493	

electrical auxiliaries

auxiliary switches



for Compact CM	
2 OF	55541
4 OF + 1 SD	55542
for Visucompact CM	
2 OF	55543
for remote control	
4 OF (supplied with remote control)	55676

voltage releases (for remote tripping)



MX (shunt trip)			
AC 50 Hz (V)		AC 60 Hz (V)	
48	55546	120/127	55547
110/127	55547	240/265	55548
208/220	55548	440/480	55550
/240			

380/415	55549
440	55550

DC (V)	
24	55544
30	55545
48	55546
110/125	55547
220	55548

MXP (continuous current shunt trip)			
AC 50 Hz (V)		AC 60 Hz (V)	
48	55693	120	55592
110	55586	127	55586
127	55587	240	55593
220	55588	265	55588
240	55589	277	55594
380/415	55591	440	55595
		480	55591

DC (V)	
24	55597
30	55598
48	55599
60	55697
110	55600
125	55601
220	55602



MN (instantaneous undervoltage release)			
AC 50 Hz (V)		AC 60 Hz (V)	
48	55681	120	55558
110	55552	127	55552
127	55553	240	55559
220	55554	265	55554
240	55555	277	55560
380/415	55557	440	55561
		480	55557

DC (V)	
24	55563
30	55564
48	55565
60	55685
110	55566
125	55567
220	55568

MNR (time delayed undervoltage release)

AC 50 Hz (V)		AC 60 Hz (V)	
48	55687	120/127	55570
110	55569	240	55572
120/127	55570	440	55578
208/220	55571		
240	55572		
380	55573		
415	55574		

DC (V)	
24	55580
30	55581
48	55582
110	55583
125	55584
220	55585

adaptable motor mechanism ⁽¹⁾



AC 50 Hz (V)		AC 60 Hz (V)	
48	55603	120/127	55611
110	55604	240	55613
127	55605	265	55614
220/240	55607	277	55615
380	55609	440	55616
415	55610	480	55617

DC (V)	
24/30	55618
48	55620
60	55621
100	55622
110	55623
125	55624
220	55625

accessories

locking by padlocks or key lock



for Compact CM	
for 3 padlocks (not supplied)	55653
for 3 padlocks (not supplied) + 1 Profalux B24D4Z	55654
for 3 padlocks (not supplied) + 1 Ronis type 1351B	55655

for Visucompact CM	
on disconnector ⁽²⁾	
for 3 padlocks (not supplied)	
1 Profalux B24D4Z	55657
1 Ronis type 1351B	55658
1 door lock	55659

sealing accessory

transparent sealable shield for Statipact STCM trip units	55652
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dummy trip unit (supplied with Compact CM switch)

for Compact CM switch 1250 to 3200A	55535
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testing kit



for Statipact STCM2 and STCM3 (110-127-220-240V CA)	55651
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connection

for Compact CM and Visucompact CM



phase or neutral connector for Compact CM ≤ 2000A or neutral connector for Compact CM ≤ 2500A	
1 connector	55660

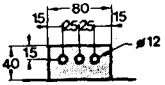
Visucompact CM1250 to 2500

Approximative weights (kg)

without accessories or auxiliaries

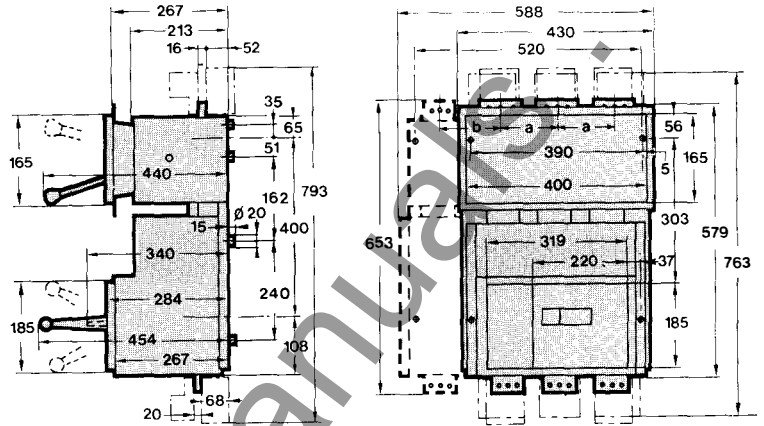
rating	1250	1600	2000	2500
3-pole	64	64	73	92
4-pole	86	86	95	114

Upstream terminal pads



e = 80 for 1250 and 1600 ratings
e = 100 for 2000 and 2500 ratings

rating	a	b
≤ 1600	120	150
2000	130	140
2500	130	140

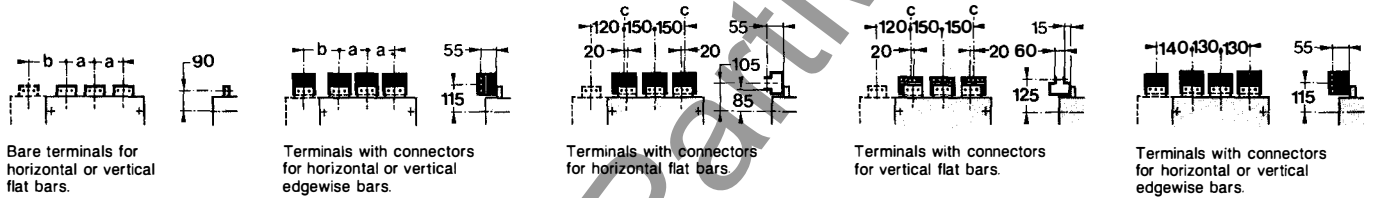


Upstream connection.

The downstream connection is identical to the Compact CM (see opposite).

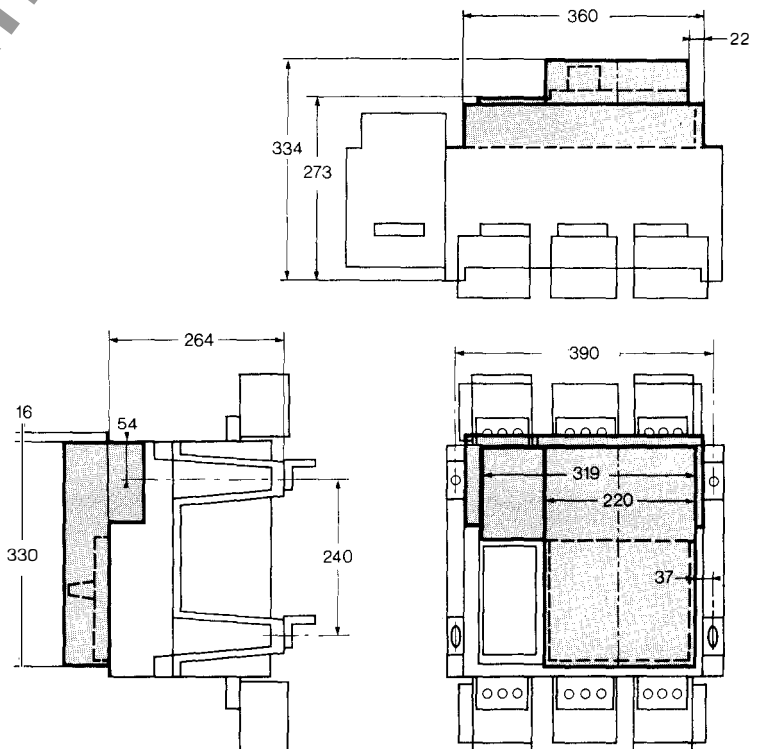
Visucompact CM1250 to 2000 (1).

Visucompact CM2500 (2)



C : busbar fixing axis

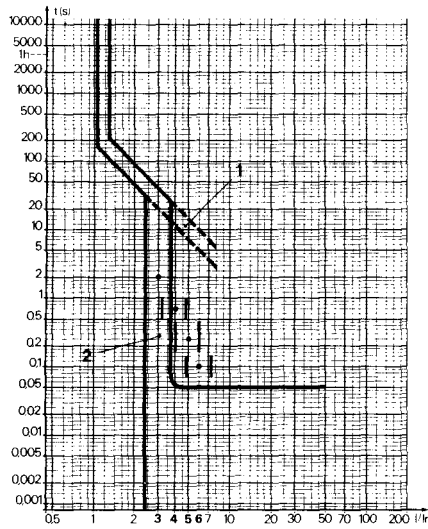
remote control for Compact CM1250 to 3200



(1) For the 1250 to 2000A ratings, the connectors are

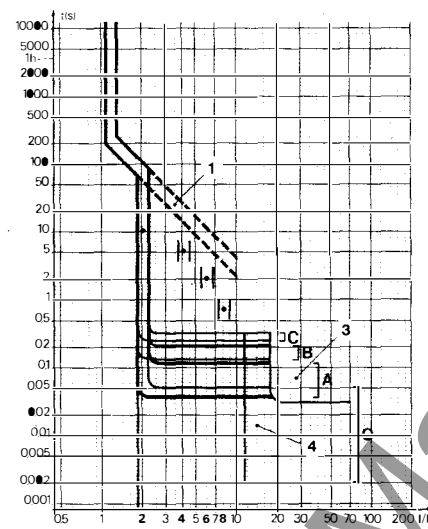
Compact CM tripping curves

STCM1



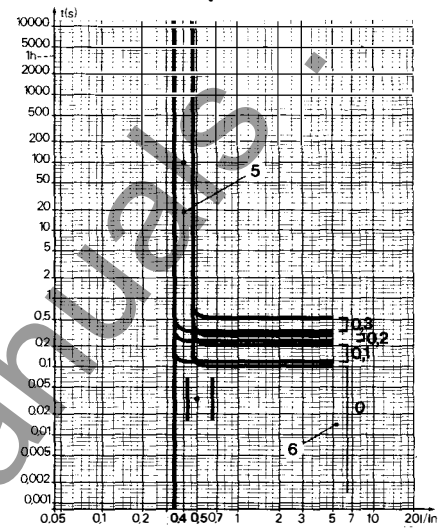
- (1) long time delay protection (overloads).
- (2) instantaneous protection (short-circuits).

STCM2 and STCM3



- (3) short time delay protection (short-circuits), with time delay settings.
- (4) instantaneous 35 kA (shown for the 2500A rating).

STCM3 : earth protection



- (5) earth fault protection.
- (6) time delay settings for earth protection.

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