DX3

PROTECTION THAT MEETS YOUR REQUIREMENTS

→ CATALOGUE PAGES INSIDE

GLOBAL SPECIALIST IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES

legrand®

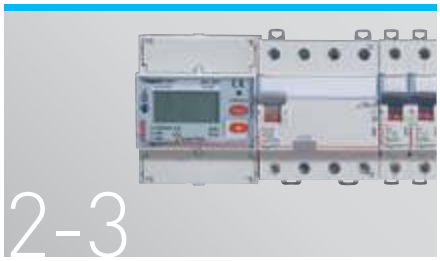
THE NEW DX^3 OFFER

Legrand offers you leading-edge technical features with its new DX^3 range of modular circuit breakers.

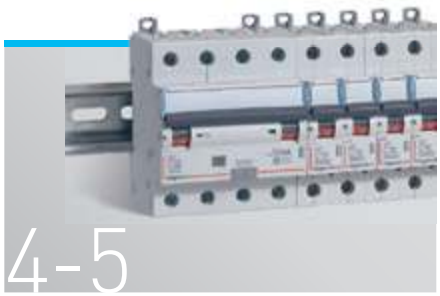
This range, up to 125 A, is suitable for all residential, commercial and industrial applications which require high performance, selectivity and back-up combination of devices.

In this document, discover the innovations of this new range which will enable you to build more reliable, higher performance and more economical distribution boards.

PROTECTION/BREAKING



A clear, comprehensive offer for all types of application



Performance that meets your requirements

Clear identification of each circuit

LEGRAND, A CLEAR, COMPREHENSIVE OFFER FOR ALL TYPES OF APPLICATION

The new DX³ circuit breakers can be integrated in a wide range of products, providing exceptional technical and economic performance levels

The variety of functions and range of characteristics offered will enable you to equip all your distribution boards. The very high levels of coordination between the various ranges of DX³ modular circuit breakers or between DX³ modular circuit breakers and DPX³ MCCBs enable the cost of the installation to be optimised.

MEASUREMENT | PROTECTION/BREAKING | CONTROL

All functions on DIN rail




Each breaking capacity has its own power solution

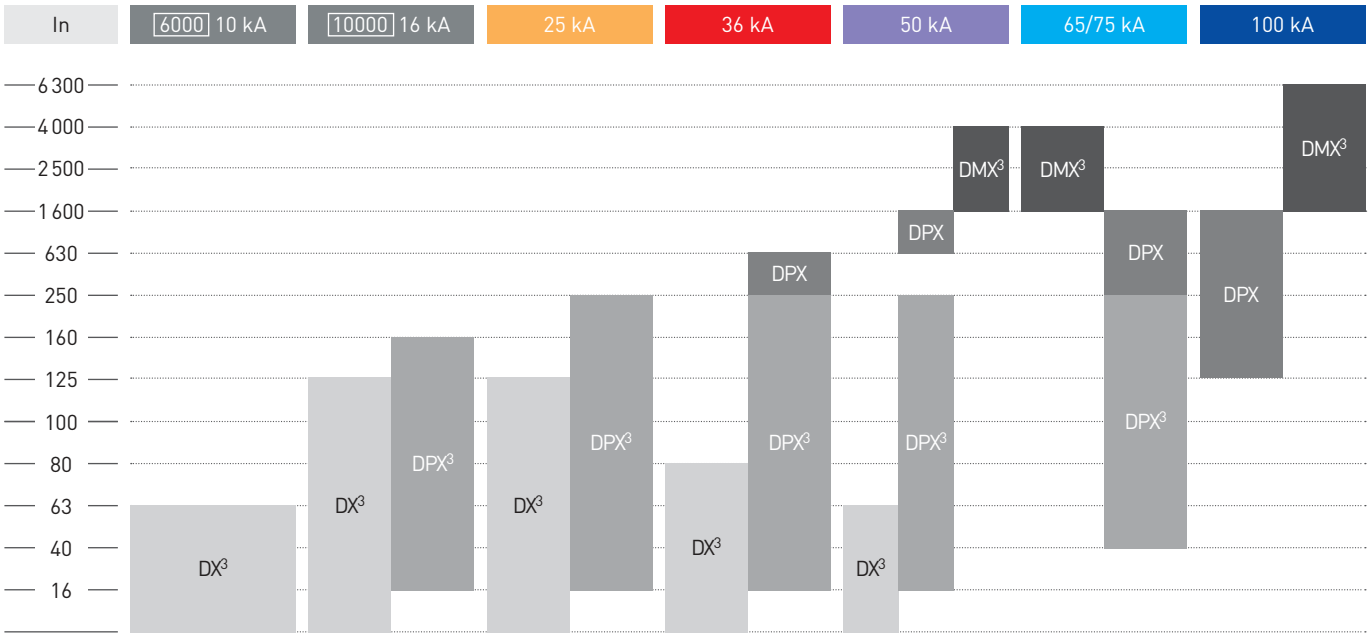
Perfect complementarity for your distribution boards up to 6 300 A and 100 kA breaking capacity.


DX³


DPX³


DPX


DMX³



PERFORMANCE THAT MEETS YOUR REQUIREMENTS

The DX³ range is designed to meet the efficiency, safety and compliance requirements with which new electrical installations must comply.

Nominal current, breaking capacity, number of poles, tripping curve, discrimination: the electrical characteristics of the new DX³ circuit breakers have been designed to meet the needs of all types of installations, from residential buildings to the largest industrial sites, including commercial buildings of all sizes.

Compact:
10 to 32 A 4-pole DX³ RCBO only 4 modules, protected neutral.

DX³ performance

A comprehensive, uniform range up to 125 A nominal current and 50 kA breaking capacity in a compact unit (1 or 1.5 modules/pole).

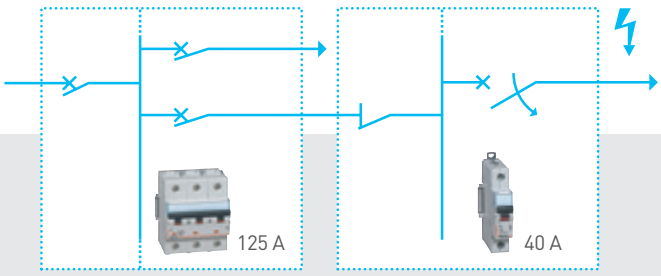
1 module per pole

1.5 module per pole

DX³ circuit breakers are limitation class 3: they limit the short-circuit power in the cables and can prolong the installation's life by avoiding damage to the cables resulting from the stresses caused by the power flowing through them. The products never work at the "limit" of their capacity.

The information in the table applies to 1P, 3P and 4P circuit breakers. For further information on the number of modules per pole, please refer to the catalogue pages.

THE XL PRO CALCUL AND XL PRO³ software include the whole DX³ range for building perfect distribution boards.



Main distribution board

Secondary board

The tripping characteristics are calculated and adjusted to ensure correct discrimination between the different protection levels in order to improve ease of use.

CONTINUITY OF SERVICE: OPTIMUM DISCRIMINATION

The excellent discrimination between DX³ circuit breakers and with DPX or DPX³ MCCBs ensures optimum continuity of service for your installations.

CLEAR IDENTIFICATION OF EACH CIRCUIT

At the head of distribution boards, at the head of rows or to protect outgoing lines up to 125 A. There is always a DX^3 solution

Quick identification of devices and circuits is a guarantee of efficiency not only for installation but also for operation and maintenance. Legrand has always taken great care with the marking and ease of identification of its circuit breakers.
The DX^3 range includes new enhancements so that your distribution boards are even easier to use.

Technical labelling area

Innovative label-holder:

- Improved opening
- Enhanced dust protection
- Label remains firmly in place during transport

Identification

Dual identification of the breaking capacity and clear marking for easier maintenance

Black handle: circuit breakers
Grey handle: switches

Breaking capacity
16 kA
25 kA
36 kA
50 kA

Curve

Rating

Breaking capacity according to IEC 60898-1

Limitation class 3 (on concerned ratings and breaking capacities)

STATE OF THE CIRCUIT BREAKER

Can be identified quickly via the colour marking on the handle:

I-On/red
O-Off/green

DX³ IMPECCABLE QUALITY

Legrand pays particular attention to how these devices perform: each of them is set and checked individually on the production lines

Isolating switches, RCDs, circuit breakers, RCBOs, add-on modules, control and signalling auxiliaries: the guarantee of finding the function you need with a uniform appearance and optimised dimensions.

CERTIFICATION OF LEGRAND'S FACTORIES:

- ISO 9001 for quality
- ISO 14001 for environmental protection

DX³ PRODUCTS ARE CERTIFIED IN ACCORDANCE WITH INTERNATIONAL PRODUCT STANDARDS.

Approvals, such as VDE, which are universally recognised for the rigour of their requirements, are renewed annually.

All DX³ circuit breakers can be used with an add-on module (see page 10).

The DX³ control and signalling auxiliaries are common to all the protection devices irrespective of their size (1 or 1.5 modules per pole) (see page 12).

COPYTRACER, THE FIGHT AGAINST COUNTERFEITING

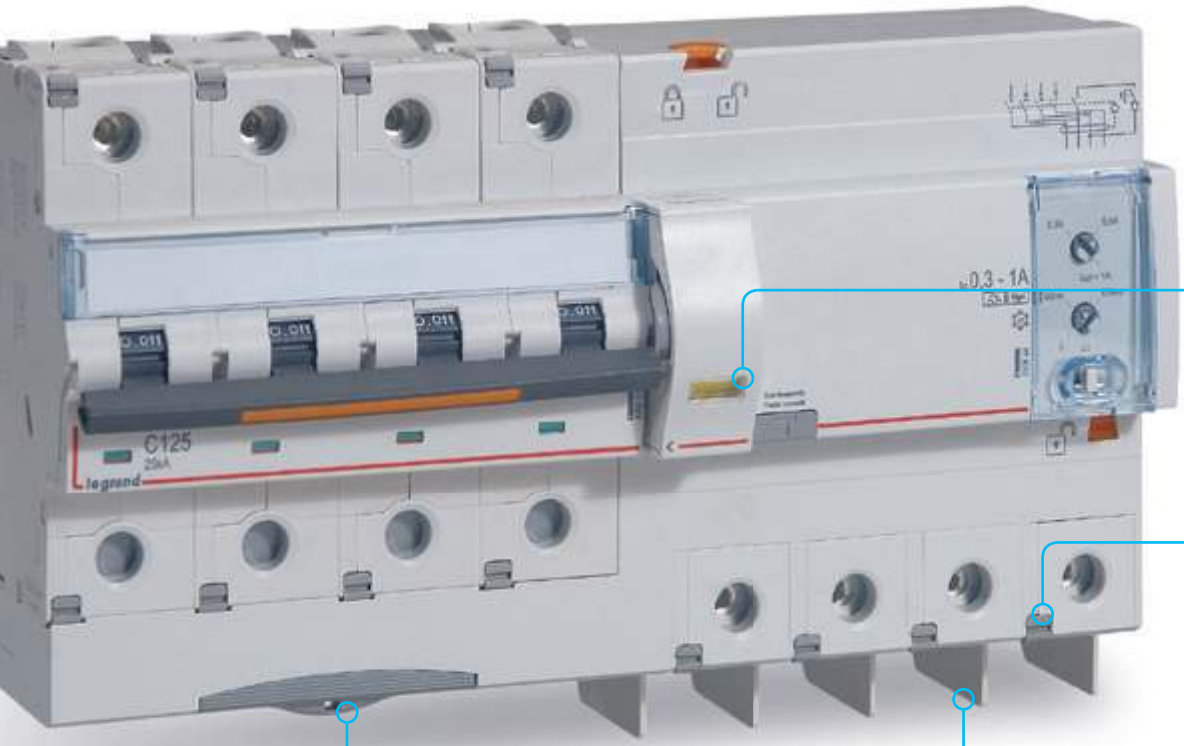
Copytracer is a unique registration number that is marked on some of our products. The number is stored in a database.

Go to the website: **www.legrand-copytracer.com**

PROTECTION TAILORED TO YOUR REQUIREMENTS

With the DX³ add-on modules

The new DX³ add-on modules have a wide range of features to meet the most stringent requirements for the protection of people. Like the new DX³ circuit breakers, they offer high performance levels and incorporate innovative solutions for installation and operation.



Tripping on residual current faults is signalled by a yellow indicator

125 A add-on modules have automatic connection tap-off terminals for auxiliary circuits

Sealable terminal shield included on the whole range

High-capacity terminals and integrated insulating shields

Version		FIXED				ADJUSTABLE	
Sensitivity		30 mA		300 mA		300-500-1 000 mA	
Time delay		Instantaneous		Instantaneous		0-60-150 ms	
Max. current		63 A	125 A	63 A	125 A	63 A	125 A
AC type	4P		•		•		
A type Hpi	2P	•	•			•	•
	3P	•	•	•		•	•
	4P	•	•	•		•	•

A single mounting principle for all DX³ add-on modules

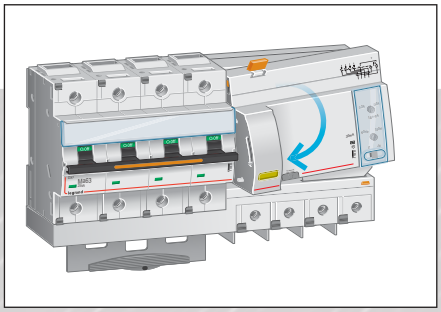
It has never been so quick and safe to fit an add-on module.
The exclusive Legrand system, common to the whole DX³ range, makes the assembly extremely strong and provides guaranteed safety.

Maximum
continuity of service

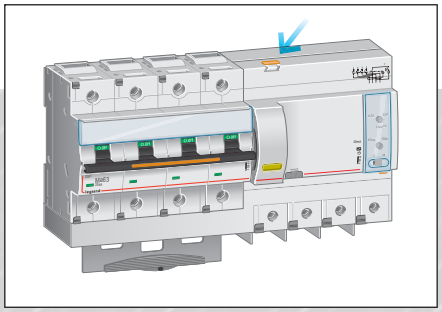
DX³ adjustable add-on modules can provide discrimination up to 3 levels by adjusting their sensitivity. They enable those parts of the installation that are not affected by a fault to remain operational, while ensuring total safety of people.

4P - 125 A ADD-ON MODULE
adjustable version

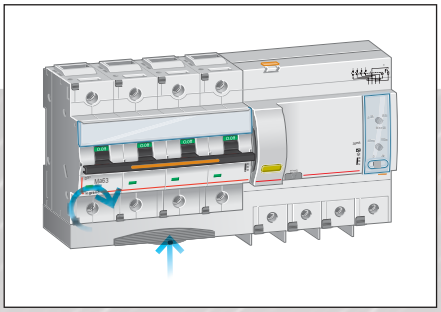
Easy to access settings on the front panel with sealable transparent cover



FIT THE CIRCUIT BREAKER
and the add-on module



LOCK THE COMBINATION TOGETHER



TIGHTEN THE TERMINALS
and fit the terminal shield

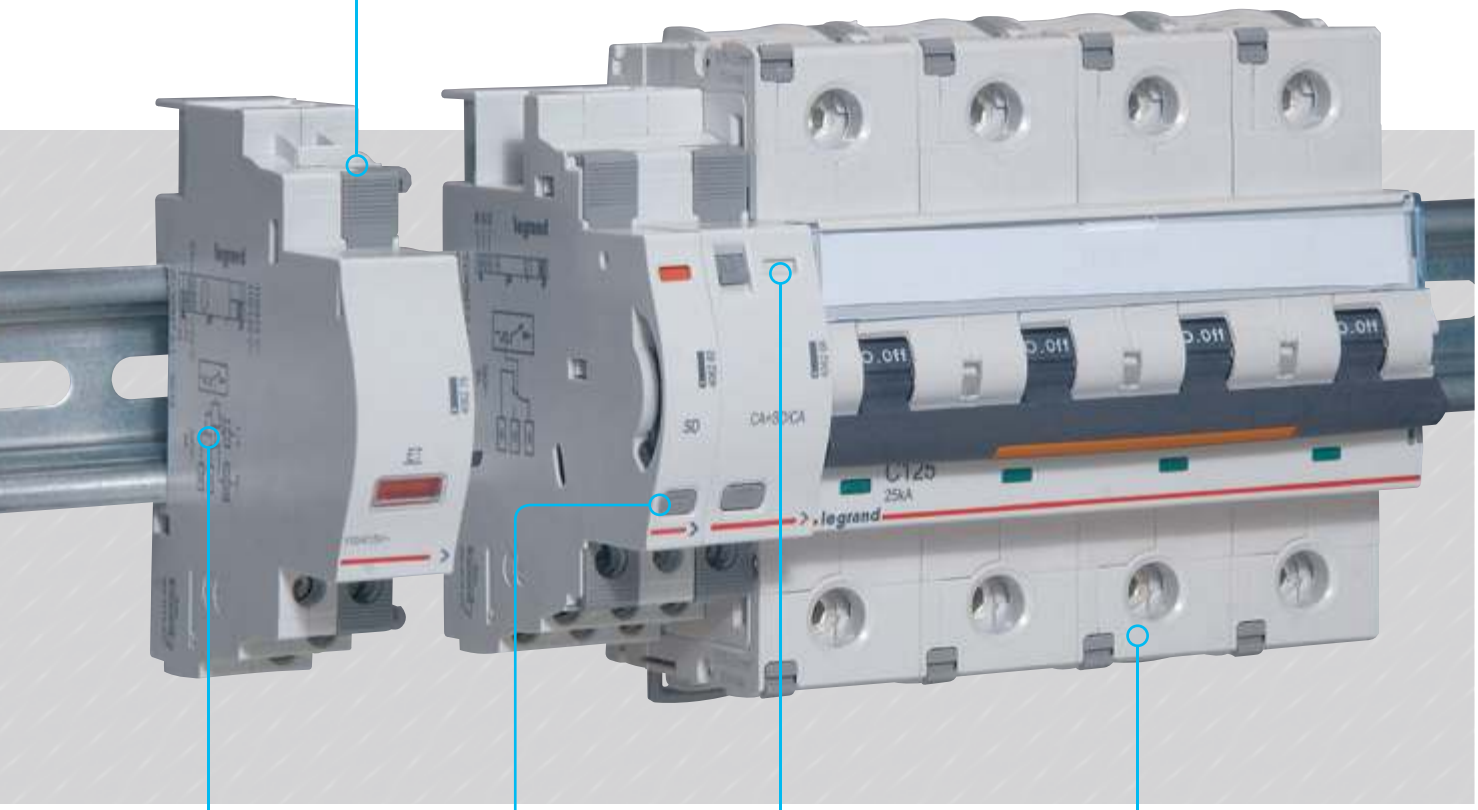
PERFECT CONTROL OF YOUR INSTALLATION

The DX³ range has a selection of electrical auxiliaries for monitoring and controlling circuits remotely

Auxiliary contacts and fault signal contacts, shunt trips, undervoltage releases, motorised controls and automatic reclosers

THE AUXILIARIES FIT FIRMLY WITHOUT
the need for any tools and ensure
the whole assembly is robust

THE ACCESSIBILITY OF THE TERMINALS
and the visibility of the screw heads make
the installer's work easier



Marking of auxiliaries (characteristics, connection, mounting)

The fault signal contacts have a test button

The colour code of the indicators on the signalling auxiliaries is the same as that of the remote indicators

DX³ circuit breakers take up to 3 auxiliaries including one control auxiliary

DX³ motorised controls can be used with 1 module per pole devices (circuit breakers, RCBOs and RCCBs) just as easily as auxiliaries.

OPTIMISED SPACE IN THE DISTRIBUTION BOARD

Legrand motorised controls are the most compact on the market: 1 module wide.
They save a great deal of space inside the distribution board.

EASY, SAFE CONNECTION

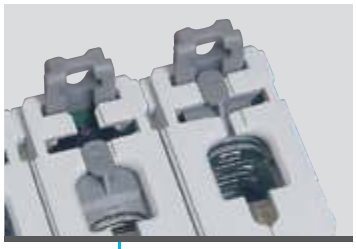
Safety is prioritised with the innovative features of the DX^3 products

The quality and hold of the connections are vital for the safety of distribution boards. This is why Legrand, with its wealth of experience and expertise, has broken new ground again with terminals with a loosening compensation system and retractable insulating shields.

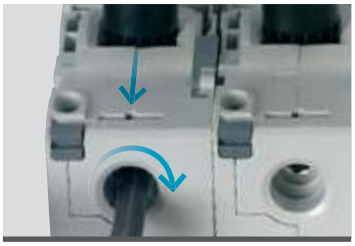
1 MODULE/POLE
Terminal capacity :
In ≤ 63 A → 35 mm²

1,5 MODULES/POLE
Terminal capacity :
In ≤ 63 A → 50 mm²
In ≥ 80 A → 70 mm²

WIRE GUIDE FLAP
ensures the wire
is in the correct position



RISING CLAMP TERMINALS
ensure a high quality, durable
connection



RELIABLE CONNECTIONS
Compensation for the effect of loosening
to ensure excellent hold over time
and consistent contact (In ≥ 80 A)

1
module/pole

1,5
modules/pole

Clamping screw for flat or pozidrive
screwdriver. Tightening torques higher than
those recommended by the standard

The use of an Allen key
makes it easier to tighten
to the required torque (In ≥ 80 A)

RETRACTABLE INSULATING SHIELDS

With the integrated retractable insulating
shields, no additional accessories are
needed to isolate the connections
on all breaking capacities and high ratings
of the 1.5 modules/pole (In ≤ 63 A) circuit breakers.

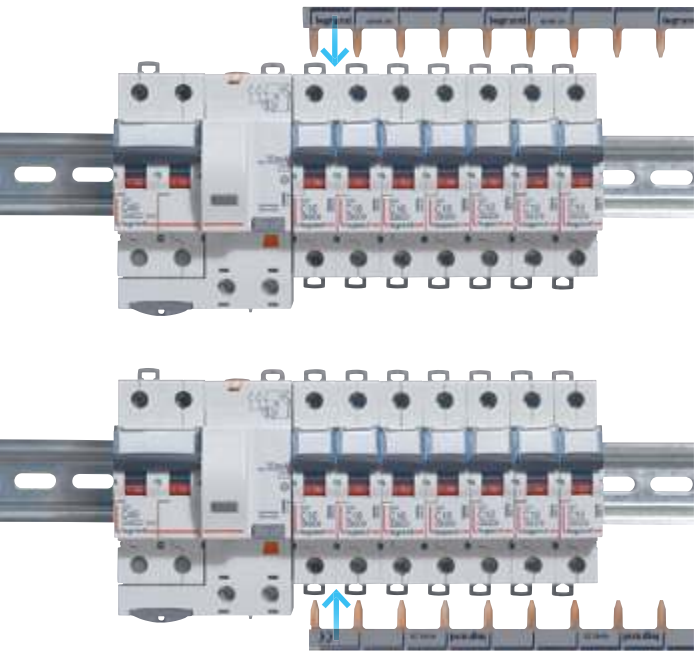
CHOOSE YOUR DISTRIBUTION

A wide range of distribution devices is available for your modular rows

From the simple supply busbar to the HX³ 125 A plug-in distribution block, whether they have conventional screw connections or more innovative automatic terminal connections, or plug in directly, Legrand quality is always there.

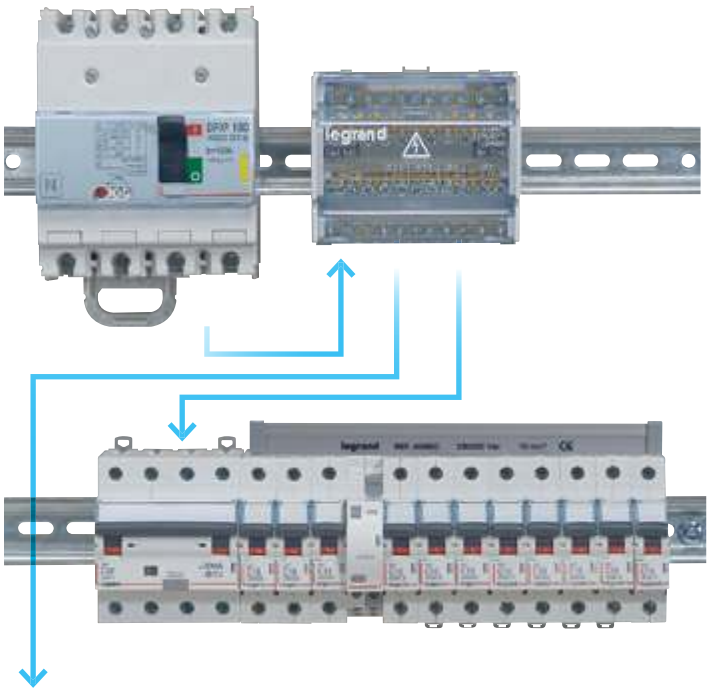
STANDARD DISTRIBUTION Supply busbars

DX³ 1 module/pole devices up to 63 A can be connected to supply busbars via the top or the bottom.



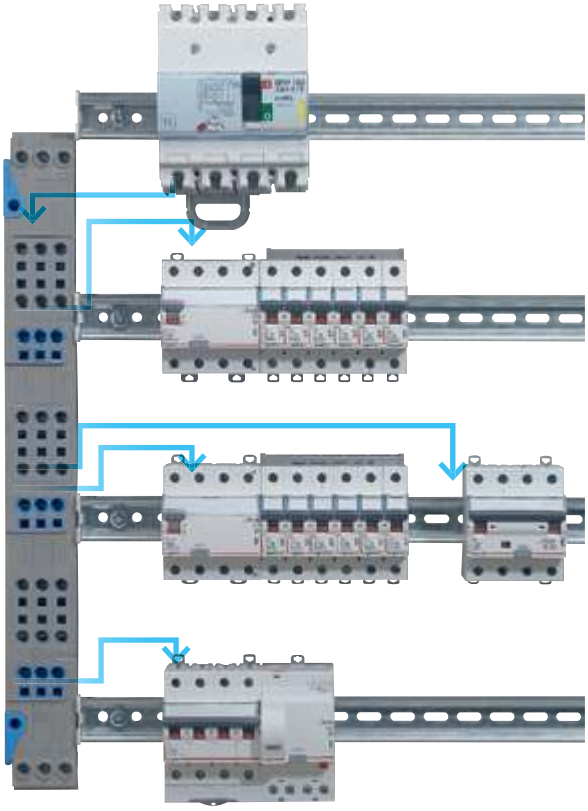
STANDARD DISTRIBUTION Modular distribution blocks

The 40 to 250 A modular distribution blocks are totally universal, making them suitable for all types of distribution board.



Four-pole distribution

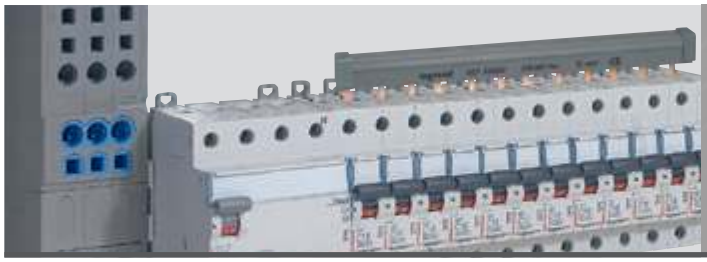
For three-phase horizontal distribution in a single action.



OPTIMISED DISTRIBUTION
VX³ 63 and 125 A, vertical distribution blocks with automatic terminals

- Significant space saving due to their vertical installation beside the rows
- Time saving as there is less wiring with the IP 2x automatic terminals for flexible or rigid wires.

Mounting in Legrand enclosures:
Plexo³, XL³125, 160, 3 to 6 rows



SUPPLY BUSBARS, AN IDEAL ADDITION

In addition to 4-pole vertical distribution blocks with automatic terminals, supply busbars power the devices in each row via the "head of row" protection device.

CHOOSE YOUR DISTRIBUTION (continued)

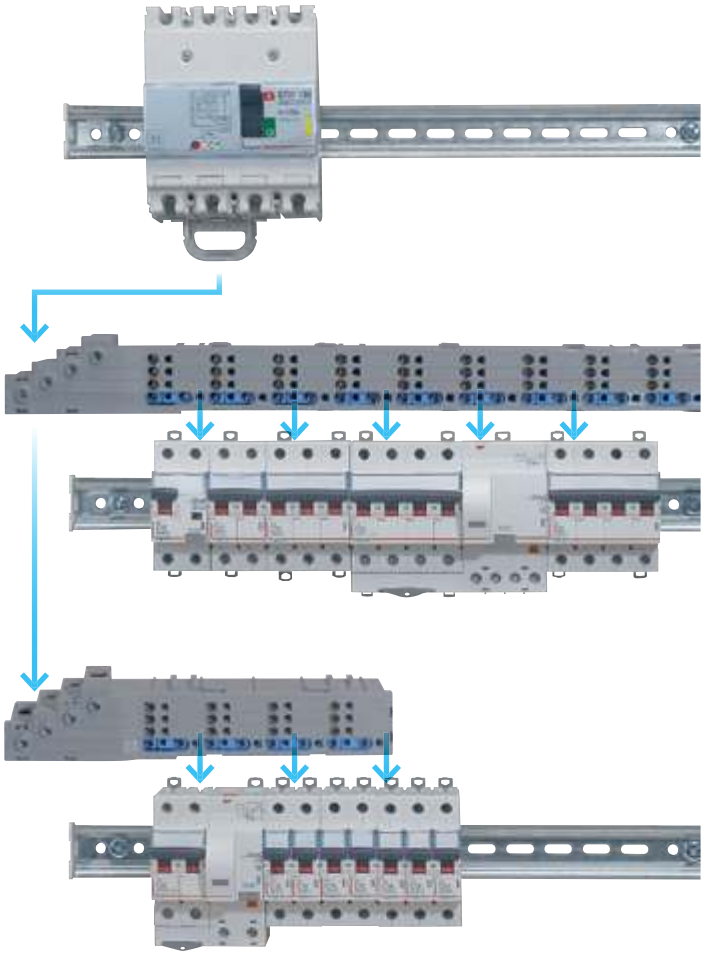
Legrand optimised distribution has been designed for maximum safety and for ease of installation and maintenance of distribution boards

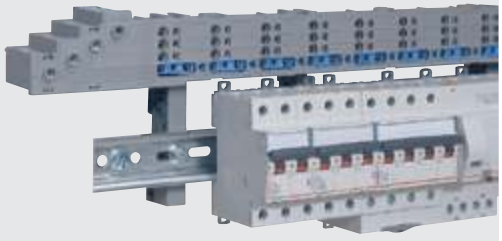
Wiring and tedious tightening operations are minimised, and the risks of poor contact and short-circuits are reduced while mounting time is optimised.

OPTIMISED DISTRIBUTION
HX³ 125 A horizontal distribution blocks with automatic terminals

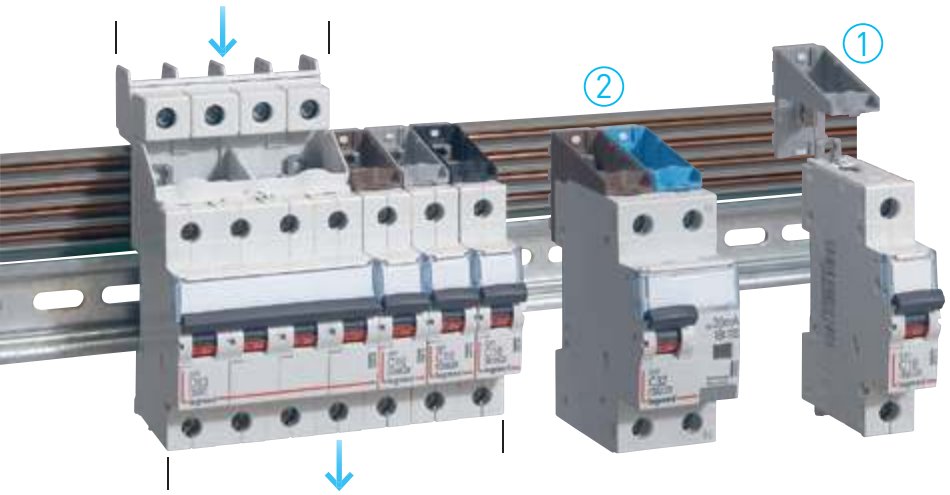
Horizontal 4-pole distribution for XL³ 160 to 4000 enclosures:

- Freedom to mix 1P, 1P+N, 2P, 3P and 4P devices on the same row
- Space saving: installed between the rows
- Time saving: less wiring, IP 2x automatic terminals for flexible or rigid wires





Fixing lugs for mounting on rails. Mounting also possible on solid plate



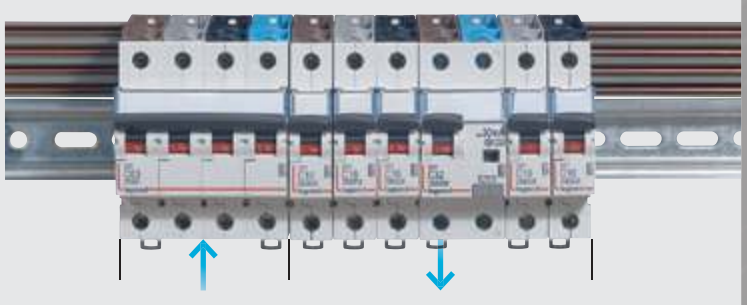
DISTRIBUTION BLOCK
SUPPLY VIA THE
POWER SUPPLY MODULE PROVIDED

CONNECTION MODULES
Set of 4 connection modules (L1, L2, L3, N)
for 1 module/pole devices

OPTIMISED DISTRIBUTION HX³ 125 A horizontal distribution blocks with plug-in connection

Horizontal 4-pole distribution for XL³ 160 to 4000 enclosures:

- Optimised design:
  freedom to mix 1P, 1P+N, 2P, 3P and 4P devices on the same row
- Optimised installation: automatic connection with no wiring or clamping
- Safe connection and disconnection of devices, even when the distribution block is powered-up (due to the IP xxB insulation of the distribution block and the integral connection modules in the devices).



DISTRIBUTION
BLOCK SUPPLY
VIA THE MAIN
DEVICE

EASY CONNECTION

Circuit breakers with plug-in terminals are fixed onto the distribution block with no need for any tool. The phase to be connected is determined by the choice of connector. The distribution block can be supplied via the power supply module provided or via the head of row device.

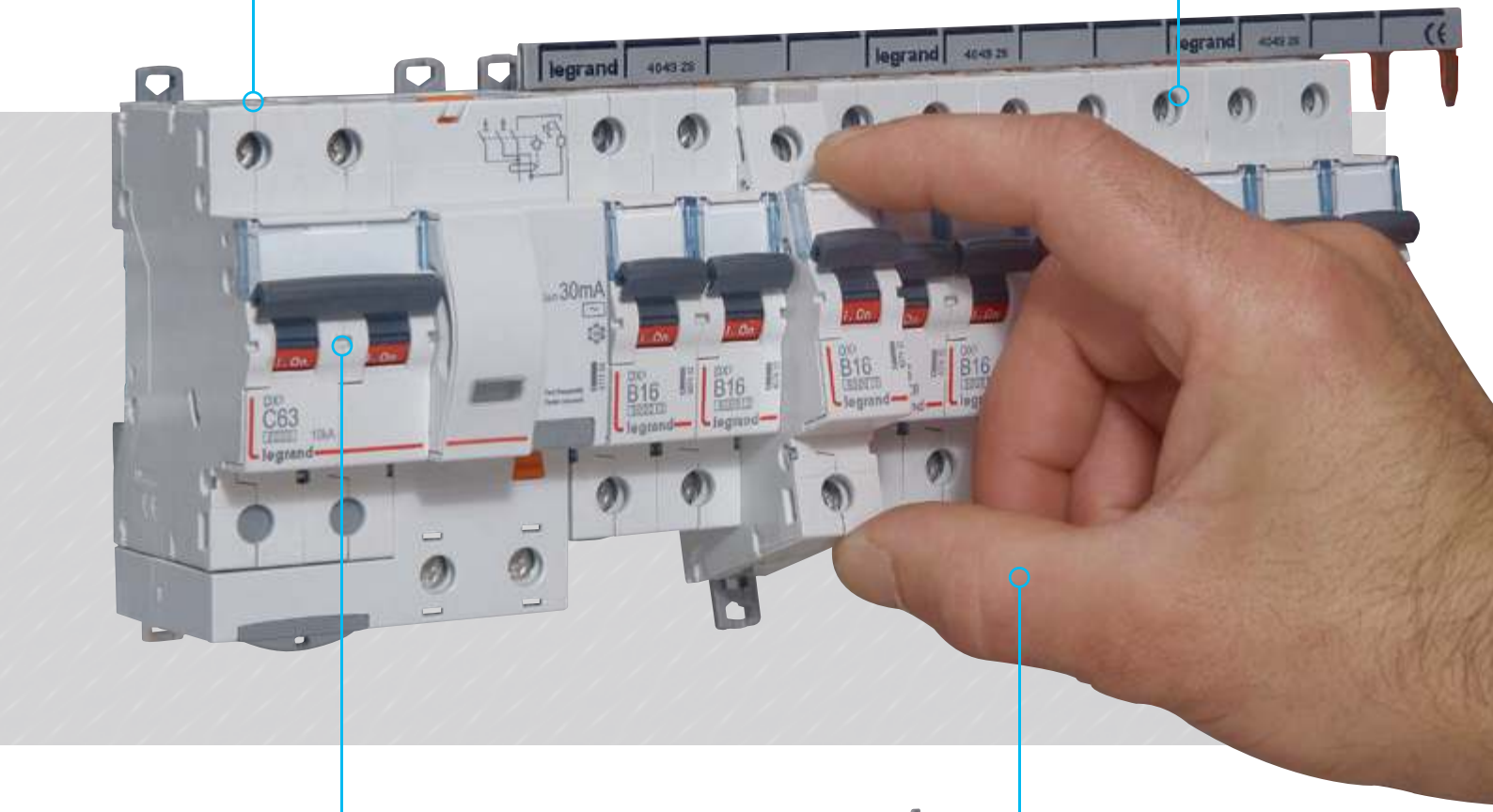
EASY OPERATION AND MAINTENANCE

When designing the DX³ range, Legrand did not forget about users and maintenance engineers

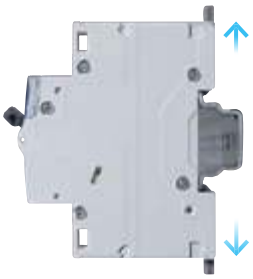
As well as the already well-known functions such as the double clip which enables maintenance to be carried out on the module, new features such as the labelling area, automatic connection tap-off terminals and status indicators have been added to make day-to-day use of distribution boards even easier.

EASY TAP-OFF CONNECTION FROM 80 A
The IP 2x automatic tap-off terminals can be used to connect an auxiliary circuit or a measuring device safely

INCREASED SAFETY
The DX³ range guarantees IP2x protection. There is no risk of contact with live parts, even when the faceplate is open.



LOCKING IN OPEN POSITION
for 1.5 module per pole devices using a single Colring cable tie



THE DOUBLE CLIP
enables a device to be replaced without disconnecting the whole row

MORE COMFORTABLE BUILDINGS AND ENERGY SAVINGS

The Legrand modular control and monitoring devices are a perfect addition to the range of DX³ protection devices

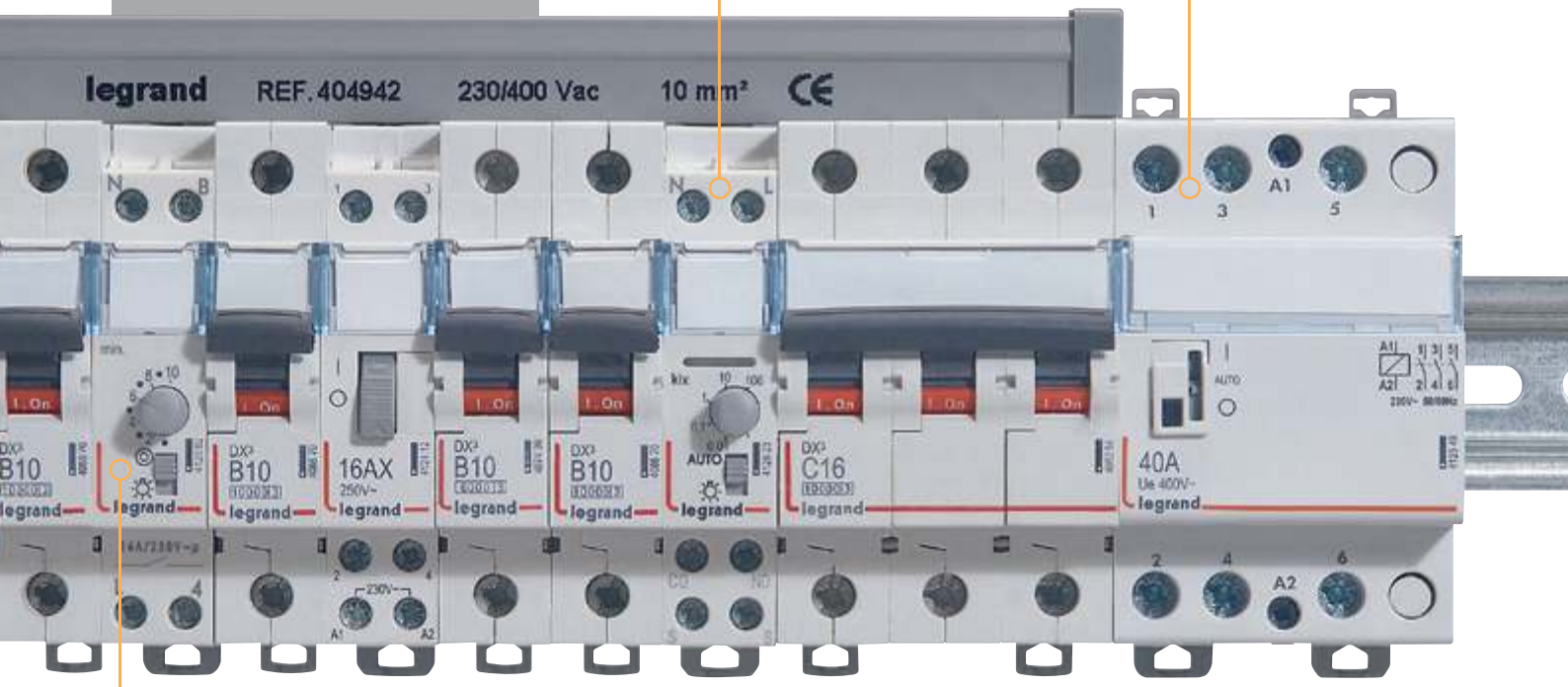
With the same design, they integrate perfectly in your distribution boards. Power contactors, pulse operated latching relays, pushbuttons, indicators, timers, programmers, etc. With the selection of functions available it is simple to improve the safety, efficiency and comfort of installations and meet energy requirements.

SUPPLY BUSBAR INSERTION

There is a position on the top of the control devices for inserting the supply busbar

LIGHT SENSITIVE SWITCH
to switch lighting on automatically when the natural light decreases

16 A TO 63 A LEGRAND POWER CONTACTORS
are available with 24 VAC or 230 VAC coil



TIMER
to switch off of lighting automatically after an adjustable period of 0.5 s to 10 min

- 1 to 4 x 16 A outputs
- 24-hour, 7-day or annual programming
- Programming direct or from a PC with a transfer key

ENERGY SAVINGS WITH TIMERS

In order to optimise power consumption, Legrand electronic timers can be used to assign operating periods, for example for heating or lighting.

MEASUREMENT AT THE HEART OF ENERGY EFFICIENCY

A project to optimise quality and energy efficiency must include measurement

Measurement upstream, to identify the critical points and ensure optimum targeting of the actions to be taken. Downstream to monitor the effects and control any drift. Legrand EMDX³ measurement control units and electricity meters will naturally have a place in distribution boards.

EMDX³ measurement control units

All the essential parameters of the installation on DIN rail or on the door :

- Dual tariff metering
- Active and reactive energy
- Operating time
- Power factor
- Harmonic distortion
- Programmable alarms

EMDX³ UNIT ON DIN RAIL

EMDX³ UNIT ON DOOR
EMDX³ units on doors provide a large size display and their capacity can be increased with extension modules.

ECO-DESIGN
A VOLUNTARY APPROACH

The Legrand group has been taking environmental problems into account since 2001. This approach is based on international standards for the objective measurement of the environmental impacts of products in terms of both consumption of resources and pollution. Legrand publishes these reports in the form of PEP (Product Environmental Profile) sheets.

Remote supervision and viewing

With the Legrand communication interfaces (RS 485, IP), supervision software and Web servers, measurements can be centralised and displayed remotely on a PC, tablet or smartphone.

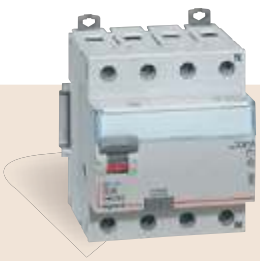
DISPLAY OF 32 MEASUREMENT POINTS
ON TABLET COMPUTERS AND WEB SERVERS

EMDX³ electricity meter on DIN rail

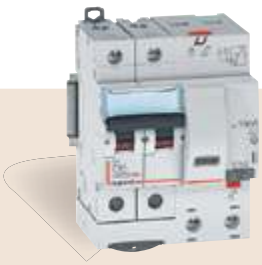
EMDX³ meters installed in secondary distribution boards can be used to monitor consumption per building, per floor and per application.

DIN RAIL equipment

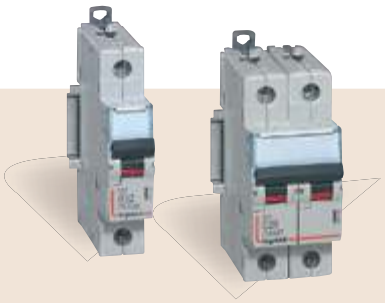
DISCOVER THE PRODUCTS



DX³ - ID
RCDs
(p. 28)



DX³
RCBOs
(p. 30)



DX³
MCBs
(p. 32)

EMDX³
multi-function
mesauring units
(p. 59)

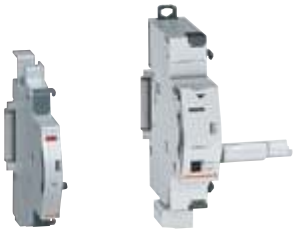
RCDs - DX³-ID

residual current devices 16 A to 100 A - AC, A and Hpi types

4 115 25

4 117 05

4 117 60



Auxiliaries, accessories and remote control **p. 40**

Dimensions **see e-catalogue**
Technical characteristics **p. 29**

Conform to IEC 61008 - 1
• AC type ~: detect AC component faults
• A type ⩙: detect AC and DC component faults
• Hpi type (High immunity) ⩙ Hpi: detect AC and DC component faults
Enhanced immunity to unwanted tripping in disturbed environments
Can be equipped with DX³ auxiliaries and accessories (p. 40)

2-pole - 230 V~

Pack	Cat.Nos	Nominal rating In (A)	Number of modules
		AC Type ~ 10 mA	
1	4 115 00	16	2
		AC Type ~ 30 mA	
1	4 115 04	25	2
1	4 115 05	40	2
1	4 115 06	63	2
1	4 115 07	80	2
1	4 115 08	100	2
		AC Type ~ 100 mA	
1	4 115 14	25	2
1	4 115 15	40	2
1	4 115 16	63	2
1	4 115 17	80	2
		AC Type ~ 300 mA	
1	4 115 24	25	2
1	4 115 25	40	2
1	4 115 26	63	2
1	4 115 27	80	2
1	4 115 28	100	2
		AC Type ~ 100 mA selective	
1	4 115 37	100	2
		AC Type ~ 300 mA selective	
1	4 115 43	63	2
		A Type ⩙ 10 mA	
1	4 115 50	16	2
		A Type ⩙ 30 mA	
1	4 115 54	25	2
1	4 115 55	40	2
1	4 115 56	63	2
1	4 115 57	80	2
		A Type ⩙ 300 mA	
1	4 115 69	25	2
1	4 115 70	40	2
1	4 115 71	63	2
1	4 115 72	80	2
		Hpi Type ⩙ Hpi 30 mA	
1	4 115 90	25	2
1	4 115 91	40	2
1	4 115 92	63	2

4-pole - 400 V~ - neutral on right-hand side

Pack	Cat.Nos	Nominal rating In (A)	Number of modules
		AC Type ~ 30 mA	
1	4 117 02	25	4
1	4 117 03	40	4
1	4 117 04	63	4
1	4 117 05	80	4
		AC Type ~ 100 mA	
1	4 117 12	25	4
1	4 117 13	40	4
1	4 117 14	63	4
1	4 117 15	80	4
		AC Type ~ 300 mA	
1	4 117 22	25	4
1	4 117 23	40	4
1	4 117 24	63	4
1	4 117 25	80	4
		AC Type ~ 500 mA	
1	4 117 32	25	4
1	4 117 33	40	4
1	4 117 34	63	4
1	4 117 35	80	4
		AC Type ~ 300 mA selective	
1	4 117 45	40	4
1	4 117 46	63	4
		A Type ⩙ 30 mA	
1	4 117 59	25	4
1	4 117 60	40	4
1	4 117 61	63	4
1	4 117 62	80	4
1	4 117 63	100	4
		A Type ⩙ 100 mA	
1	4 117 69	25	4
1	4 117 70	40	4
1	4 117 71	63	4
1	4 117 72	80	4
1	4 117 73	100	4
		A Type ⩙ 300 mA	
1	4 117 79	25	4
1	4 117 80	40	4
1	4 117 81	63	4
1	4 117 82	80	4
1	4 117 83	100	4

RCDs - DX³-ID - residual current devices

16 A to 100 A - AC, A and Hpi types (continued)

4 117 90

Dimensions **see e-catalogue**

Conform to IEC 61008 - 1
• AC type ~: detect AC component faults
• A type ⩘: detect AC and DC component faults
• Hpi type (High immunity) ⩘ Hpi: detect AC and DC component faults
Enhanced immunity to unwanted tripping in disturbed environments
Can be equipped with DX³ auxiliaries and accessories (p. 40)

Pack	Cat.Nos	4-pole - 400 V~ - neutral on right-hand side (continued)	
		Nominal rating In (A)	Number of modules
		A Type ⩘ 500 mA	
1	4 117 89	25	4
1	4 117 90	40	4
1	4 117 91	63	4
1	4 117 92	80	4
1	4 117 93	100	4
		A Type ⩘ 300 mA selective	
1	4 118 00	40	4
1	4 118 01	63	4

For detailed dimensions,
see e-catalogue

RCDs DX³-ID

technical characteristics

DX³-ID - RCDs (residual current devices)

Connection cross-section

RCDs	Cable (mm²)	
	rigid	flexible
Connection at top and bottom	50	35

AC type ~ - Standard applications

AC type RCDs detect AC residual currents
In the majority of cases (standard applications), they are used for AC current detection at 50/60 Hz

A type ⩘ - Specific applications: dedicated lines

In addition to the characteristics of AC type RCDs, A type RCDs also detect DC residual currents
They are used whenever fault currents are not sinusoidal
They are particularly suitable for the following specific applications (hobs, washing machines...) or materials that may produce DC fault currents, speed drives with frequency inverters, etc.

Hpi type ⩘ Hpi - Special applications

Type Hpi RCDs are devices which offer additional immunity to unwanted tripping which significantly exceeds the level required by the standard
They are also able to detect AC and DC residual currents (A type)
Operation between - 25 °C and + 40 °C
They are used in special applications where:
• Loss of information is potentially damaging, e.g. power supply lines for computer equipment (banks, equipment on military bases, flight reservation centres, etc.)
• Loss of operation is potentially damaging (automated machinery, medical equipment, freezer cable, etc.)
They are also used:
• On sites where there is an increased risk of lightning strikes
• On sites where cables are subject to high levels of interference (use of fluorescents, etc.)
• On sites where very long cables are used

RCBOs DX™ 10000 - residual current circuit breakers from 10 A to 45 A AC type

6 064 15

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

Breaking capacity:
10000 - IEC 61009-1 - for single pole
• AC type ~: detect AC component faults

Single pole - 230 V~

Blue neutral leads

AC Type ~ 30 mA

Pack	Cat.Nos	C curve	Nominal rating In (A)	Number of modules
1	6 064 10		10	1
1	6 064 11		16	1
1	6 064 12		20	1
1	6 064 13		25	1
1	6 064 14		32	1
1	6 064 15		45	1

RCBOs DX³ 6000 - 10 kA - residual current circuit breakers from 3 A to 63 A AC, A and Hpi types

4 110 02

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

Conform to IEC 61009-1
Breaking capacity:
6000 - IEC 61009-1 - 10 kA / IEC 60947-2 for single pole + neutral, 2 and 4-pole
• AC type ~: detect AC component faults
• A type ⩙: detect AC and DC component faults
• Hpi type (High immunity) ⩙ Hpi: detect AC and DC component faults
Enhanced immunity to unwanted tripping in disturbed environments
Can be equipped with DX³ auxiliaries and accessories (p. 40)

Single pole + neutral - 230 V~

Neutral on right-hand side

Pack	Cat.Nos	C curve	Nominal rating In (A)	Number of modules
			AC Type ~ 10 mA	
1	4 109 93		16	2
			AC Type ~ 30 mA	
1	4 109 97		3	2
1	4 109 99		6	2
1	4 110 00		10	2
1	4 110 02		16	2
1	4 110 03		20	2
1	4 110 04		25	2
1	4 110 05		32	2
1	4 110 06		40	2
			AC Type ~ 300 mA	
1	4 110 21		6	2
1	4 110 22		10	2
1	4 110 24		16	2
1	4 110 25		20	2
1	4 110 26		25	2
1	4 110 27		32	2
1	4 110 28		40	2
			A Type ⩙ 10 mA	
1	4 110 41		16	2
			A Type ⩙ 30 mA	
1	4 110 47		6	2
1	4 110 48		10	2
1	4 110 50		16	2
1	4 110 51		20	2
1	4 110 52		25	2
1	4 110 53		32	2
1	4 110 54		40	2
			Hpi Type ⩙ Hpi 30 mA	
1	4 110 91		6	2
1	4 110 92		10	2
1	4 110 94		16	2
1	4 110 95		20	2
1	4 110 96		25	2
1	4 110 97		32	2
1	4 110 98		40	2

RCBOs DX³ 6000 - 10 kA

residual current circuit breakers from 3 A to 63 A - AC, A and Hpi types (continued)

4 111 49

4 111 92

4 112 41

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

Breaking capacity:
6000 - IEC 61009-1 - 10 kA / IEC 60947-2 for single pole + neutral, 2 and 4-pole
• AC type ~: detect AC component faults
• A type ~: detect AC and DC component faults
• Hpi type (High immunity) ~ Hpi: detect AC and DC component faults
Enhanced immunity to unwanted tripping in disturbed environments
Can be equipped with DX³ auxiliaries and accessories (p. 40)

2-pole - 230 V~

Pack	Cat.Nos	C curve	Nominal rating In (A)	Number of modules
		AC Type ~ 10 mA		
1	4 111 49		10	4
1	4 111 50		16	4
1	4 111 51		20	4
		AC Type ~ 30 mA		
1	4 111 57		10	4
1	4 111 58		16	4
1	4 111 59		20	4
1	4 111 60		25	4
1	4 111 61		32	4
1	4 111 62		40	4
1	4 111 63		50	4
1	4 111 64		63	4
		AC Type ~ 300 mA		
1	4 111 71		10	4
1	4 111 72		16	4
1	4 111 73		20	4
1	4 111 74		25	4
1	4 111 75		32	4
1	4 111 76		40	4
1	4 111 77		50	4
1	4 111 78		63	4

4-pole - 400 V~

Pack	Cat.Nos	C curve	Nominal rating In (A)	Number of modules
		AC Type ~ 30 mA		
1	4 111 85		10	4
1	4 111 86		16	4
1	4 111 87		20	4
1	4 111 88		25	4
1	4 111 89		32	4
1	4 111 90		40	7
1	4 111 91		50	7
1	4 111 92		63	7
		AC Type ~ 300 mA		
1	4 112 04		10	4
1	4 112 05		16	4
1	4 112 06		20	4
1	4 112 07		25	4
1	4 112 08		32	4
1	4 112 09		40	7
1	4 112 10		50	7
1	4 112 11		63	7
		A Type ~ 30 mA		
1	4 112 33		10	4
1	4 112 34		16	4
1	4 112 35		20	4
1	4 112 36		25	4
1	4 112 37		32	4
		A Type ~ 300 mA		
1	4 112 38		10	4
1	4 112 39		16	4
1	4 112 40		20	4
1	4 112 41		25	4
1	4 112 42		32	4

For detailed dimensions,
see e-catalogue

MCBs DX³ 6000 - 10 kA

thermal magnetic circuit breakers from 1 A to 63 A


4 074 35


4 075 65


4 078 02


4 079 34

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

Conform to IEC 60898-1
Breaking capacity
6000 - IEC 60898-1 - 400 V~
10 kA - IEC 60947-2 - 400 V~
Can be equipped with DX³ auxiliaries and accessories (p. 40)

MCBs DX³ 6000 - 10 kA - B curve

Single pole 230/400 V~

Pack	Cat.Nos B curve	Nominal rating In (A)	Number of modules
1	4 074 25	1	1
1	4 074 26	2	1
1	4 074 27	3	1
1	4 074 29	6	1
1	4 074 30	10	1
1	4 074 32	16	1
1	4 074 33	20	1
1	4 074 34	25	1
1	4 074 35	32	1
1	4 074 36	40	1
1	4 074 37	50	1
1	4 074 38	63	1

2-pole 230/400 V~

1	4 075 02	1	2
1	4 075 03	2	2
1	4 075 04	3	2
1	4 075 06	6	2
1	4 075 07	10	2
1	4 075 09	16	2
1	4 075 10	20	2
1	4 075 11	25	2
1	4 075 12	32	2
1	4 075 13	40	2
1	4 075 14	50	2
1	4 075 15	63	2

3-pole 400 V~

1	4 075 54	1	3
1	4 075 55	2	3
1	4 075 56	3	3
1	4 075 58	6	3
1	4 075 59	10	3
1	4 075 61	16	3
1	4 075 62	20	3
1	4 075 63	25	3
1	4 075 64	32	3
1	4 075 65	40	3
1	4 075 66	50	3
1	4 075 67	63	3

4-pole 400 V~

1	4 076 17	1	4
1	4 076 18	2	4
1	4 076 19	3	4
1	4 076 21	6	4
1	4 076 22	10	4
1	4 076 24	16	4
1	4 076 25	20	4
1	4 076 26	25	4
1	4 076 27	32	4
1	4 076 28	40	4
1	4 076 29	50	4
1	4 076 30	63	4

MCBs DX³ 6000 - 10 kA - C curve

Single pole 230/400 V~

Pack	Cat.Nos C curve	Nominal rating In (A)	Number of modules
1	4 076 62	1	1
1	4 076 63	2	1
1	4 076 64	3	1
1	4 076 66	6	1
10	4 076 68	10	1
10	4 076 70	16	1
1	4 076 71	20	1
1	4 076 72	25	1
1	4 076 73	32	1
1	4 076 74	40	1
1	4 076 75	50	1
1	4 076 76	63	1

2-pole 230/400 V~

1	4 077 92	1	2
1	4 077 93	2	2
1	4 077 94	3	2
1	4 077 96	6	2
1	4 077 98	10	2
1	4 078 00	16	2
1	4 078 01	20	2
1	4 078 02	25	2
1	4 078 03	32	2
1	4 078 04	40	2
1	4 078 05	50	2
1	4 078 06	63	2

3-pole 400 V~

1	4 078 51	1	3
1	4 078 52	2	3
1	4 078 53	3	3
1	4 078 55	6	3
1	4 078 57	10	3
1	4 078 59	16	3
1	4 078 60	20	3
1	4 078 61	25	3
1	4 078 62	32	3
1	4 078 63	40	3
1	4 078 64	50	3
1	4 078 65	63	3

4-pole 400 V~

1	4 079 20	1	4
1	4 079 21	2	4
1	4 079 22	3	4
1	4 079 24	6	4
1	4 079 26	10	4
1	4 079 28	16	4
1	4 079 29	20	4
1	4 079 30	25	4
1	4 079 31	32	4
1	4 079 32	40	4
1	4 079 33	50	4
1	4 079 34	63	4

MCBs DX³ 6000 - 10 kA - thermal magnetic circuit breakers from 1 A to 63 A (continued)

4 079 67

4 080 33

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

Conform to IEC 60898-1
Breaking capacity
6000 - IEC 60898-1 - 400 V~
10 kA - IEC 60947-2 - 400 V~
Can be equipped with DX³ auxiliaries and accessories (p. 40)

Pack	Cat.Nos	MCBs DX³ 6000 - 10 kA - D curve	
		Single pole 230/400 V~	
	D curve	Nominal rating In (A)	Number of modules
1	4 079 63	1	1
1	4 079 64	2	1
1	4 079 65	3	1
1	4 079 67	6	1
1	4 079 69	10	1
1	4 079 71	16	1
1	4 079 72	20	1
1	4 079 73	25	1
1	4 079 74	32	1
1	4 079 75	40	1
1	4 079 76	50	1
1	4 079 77	63	1
		2-pole 230/400 V~	
1	4 080 23	1	2
1	4 080 24	2	2
1	4 080 25	3	2
1	4 080 27	6	2
1	4 080 29	10	2
1	4 080 31	16	2
1	4 080 32	20	2
1	4 080 33	25	2
1	4 080 34	32	2
1	4 080 35	40	2
1	4 080 36	50	2
1	4 080 37	63	2
		3-pole 400 V~	
1	4 080 81	1	3
1	4 080 82	2	3
1	4 080 83	3	3
1	4 080 85	6	3
1	4 080 87	10	3
1	4 080 89	16	3
1	4 080 90	20	3
1	4 080 91	25	3
1	4 080 92	32	3
1	4 080 93	40	3
1	4 080 94	50	3
1	4 080 95	63	3
		4-pole 400 V~	
1	4 081 43	6	4
1	4 081 45	10	4
1	4 081 47	16	4
1	4 081 48	20	4
1	4 081 49	25	4
1	4 081 50	32	4
1	4 081 51	40	4
1	4 081 52	50	4
1	4 081 53	63	4

Common auxiliaries and motorised controls for DX³ MCBs, RCBOs and RCDs

DISCOVER THE RANGES

- Perfect fitting on protection devices
- Easy to access and visible terminals
- Allow insertion of supply busbars

SIGNALLING AUXILIAIRIES,
P. 40

UNDERVOLTAGE RELEASES,
P. 40

CURRENT SHUNT TRIPS,
P. 40

MOTORISED CONTROLS,
P. 40

MORE INFORMATION

▶ E-CATALOGUE

▶ QR-CODE

MCBs DX³ 10000 - 16 kA

thermal magnetic circuit breakers from 1 A to 125 A

4 088 69

4 089 43

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

Conform to IEC 60898-1
Breaking capacity
10000 - IEC 60898-1 - 400 V~
16 kA - IEC 60947-2 - 400 V~
Can be equipped with DX³ auxiliaries and accessories (p. 40)

MCBs DX³ 10000 - 16 kA - B curve

Single pole 230/400 V~

Pack	Cat.Nos B curve	Nominal rating In (A)	Number of modules
1	4 088 65	1	1
1	4 088 66	2	1
1	4 088 67	3	1
1	4 088 69	6	1
1	4 088 70	10	1
1	4 088 71	13	1
1	4 088 72	16	1
1	4 088 73	20	1
1	4 088 74	25	1
1	4 088 75	32	1
1	4 088 76	40	1
1	4 088 77	50	1
1	4 088 78	63	1

2-pole 230/400 V~

Pack	Cat.Nos B curve	Nominal rating In (A)	Number of modules
1	4 089 35	1	2
1	4 089 36	2	2
1	4 089 37	3	2
1	4 089 39	6	2
1	4 089 40	10	2
1	4 089 41	13	2
1	4 089 42	16	2
1	4 089 43	20	2
1	4 089 44	25	2
1	4 089 45	32	2
1	4 089 46	40	2
1	4 089 47	50	2
1	4 089 48	63	2

3-pole 400 V~

Pack	Cat.Nos B curve	Nominal rating In (A)	Number of modules
1	4 089 84	1	3
1	4 089 85	2	3
1	4 089 86	3	3
1	4 089 88	6	3
1	4 089 89	10	3
1	4 089 90	13	3
1	4 089 91	16	3
1	4 089 92	20	3
1	4 089 93	25	3
1	4 089 94	32	3
1	4 089 95	40	3
1	4 089 96	50	3
1	4 089 97	63	3

MCBs DX³ 10000 - 16 kA - B curve (continued)

4-pole 400 V~

Pack	Cat.Nos B curve	Nominal rating In (A)	Number of modules
1	4 090 58	1	4
1	4 090 59	2	4
1	4 090 60	3	4
1	4 090 62	6	4
1	4 090 63	10	4
1	4 090 64	13	4
1	4 090 65	16	4
1	4 090 66	20	4
1	4 090 67	25	4
1	4 090 68	32	4
1	4 090 69	40	4
1	4 090 70	50	4
1	4 090 71	63	4

MCBs DX³ 10000 - 16 kA

thermal magnetic circuit breakers from 1 A to 125 A (continued)

4 091 11

4 092 03

4 087 71

Auxiliaries and accessories **p. 40**

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

Conform to IEC 60898-1
Breaking capacity
10000 - IEC 60898-1 - 400 V~
16 kA - IEC 60947-2 - 400 V~
Can be equipped with DX³ auxiliaries and accessories (p. 40)

MCBs DX³ 10000 - 16 kA - C curve

Single pole 230/400 V~

Pack	Cat.Nos C curve	Nominal rating In (A)	Number of modules
1	4 091 07	1	1
1	4 091 08	2	1
1	4 091 09	3	1
1	4 091 11	6	1
1	4 091 12	10	1
1	4 091 13	13	1
1	4 091 14	16	1
1	4 091 15	20	1
1	4 091 16	25	1
1	4 091 17	32	1
1	4 091 18	40	1
1	4 091 19	50	1
1	4 091 20	63	1
1	4 085 99	80	1.5
1	4 086 00	100	1.5
1	4 086 01	125	1.5

2-pole 230/400 V~

1	4 091 95	1	2
1	4 091 96	2	2
1	4 091 97	3	2
1	4 091 99	6	2
1	4 092 00	10	2
1	4 092 01	13	2
1	4 092 02	16	2
1	4 092 03	20	2
1	4 092 04	25	2
1	4 092 05	32	2
1	4 092 06	40	2
1	4 092 07	50	2
1	4 092 08	63	2
1	4 086 40	80	3
1	4 086 41	100	3
1	4 086 42	125	3

3-pole 400 V~

1	4 092 47	1	3
1	4 092 48	2	3
1	4 092 49	3	3
1	4 092 51	6	3
1	4 092 52	10	3
1	4 092 53	13	3
1	4 092 54	16	3
1	4 092 55	20	3
1	4 092 56	25	3
1	4 092 57	32	3
1	4 092 58	40	3
1	4 092 59	50	3
1	4 092 60	63	3
1	4 086 62	80	4.5
1	4 086 63	100	4.5
1	4 086 64	125	4.5

MCBs DX³ 10000 - 16 kA - C curve (continued)

4-pole 400 V~

Pack	Cat.Nos C curve	Nominal rating In (A)	Number of modules
1	4 093 29	1	4
1	4 093 30	2	4
1	4 093 31	3	4
1	4 093 33	6	4
1	4 093 34	10	4
1	4 093 35	13	4
1	4 093 36	16	4
1	4 093 37	20	4
1	4 093 38	25	4
1	4 093 39	32	4
1	4 093 40	40	4
1	4 093 41	50	4
1	4 093 42	63	4
1	4 087 03	80	6
1	4 087 04	100	6
1	4 087 05	125	6

MCBs DX³ 10000 - 16 kA - D curve

3-pole 400 V~

Pack	Cat.Nos D curve	Nominal rating In (A)	Number of modules
1	4 087 69	80	4.5
1	4 087 70	100	4.5
1	4 087 71	125	4.5

For detailed dimensions,
see e-catalogue

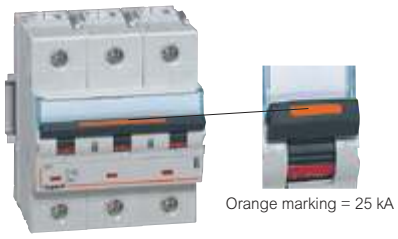
MCBs DX³ - 25 kA

thermal magnetic MCBs from 2 A to 125 A

4 097 72

4 098 03

4 098 24



4 098 33

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

Breaking capacity:
25 kA - IEC 60947-2 - 400 V~
Can be equipped with DX³ auxiliaries and accessories (p. 40)

MCBs DX³ - 25 kA - C curve

Single pole 230/400 V~

Pack	Cat.Nos C curve	Nominal rating In (A)	Number of modules
1	4 097 52	2	1
1	4 097 53	6	1
1	4 097 54	10	1
1	4 097 55	16	1
1	4 097 56	20	1
1	4 097 57	25	1
1	4 097 58	32	1.5
1	4 097 59	40	1.5
1	4 097 60	50	1.5
1	4 097 61	63	1.5
1	4 097 62	80	1.5
1	4 097 63	100	1.5
1	4 097 64	125	1.5

2-pole - 230/400 V~

1	4 097 65	2	2
1	4 097 66	6	2
1	4 097 67	10	2
1	4 097 68	16	2
1	4 097 69	20	2
1	4 097 70	25	2
1	4 097 71	32	2
1	4 097 72	40	3
1	4 097 73	50	3
1	4 097 74	63	3
1	4 097 75	80	3
1	4 097 76	100	3
1	4 097 77	125	3

3-pole - 400 V~

1	4 097 78	2	3
1	4 097 79	6	3
1	4 097 80	10	3
1	4 097 81	16	3
1	4 097 82	20	3
1	4 097 83	25	3
1	4 097 84	32	4.5
1	4 097 85	40	4.5
1	4 097 86	50	4.5
1	4 097 87	63	4.5
1	4 097 88	80	4.5
1	4 097 89	100	4.5
1	4 097 90	125	4.5

4-pole - 400 V~

1	4 097 91	2	4
1	4 097 92	6	4
1	4 097 93	10	4
1	4 097 94	16	4
1	4 097 95	20	4
1	4 097 96	25	4
1	4 097 97	32	6
1	4 097 98	40	6
1	4 097 99	50	6
1	4 098 00	63	6
1	4 098 01	80	6
1	4 098 02	100	6
1	4 098 03	125	6

MCBs DX³ - 25 kA - D curve

Single pole 230/400 V~

Pack	Cat.Nos D curve	Nominal rating In (A)	Number of modules
1	4 098 04	2	1
1	4 098 05	6	1
1	4 098 06	10	1
1	4 098 07	16	1.5
1	4 098 08	20	1.5
1	4 098 09	25	1.5
1	4 098 10	32	1.5
1	4 098 11	40	1.5
1	4 098 12	50	1.5
1	4 098 13	63	1.5
1	4 098 14	80	1.5
1	4 098 15	100	1.5
1	4 098 16	125	1.5

2-pole - 230/400 V~

1	4 098 17	2	2
1	4 098 18	6	2
1	4 098 19	10	2
1	4 098 20	16	2
1	4 098 21	20	2
1	4 098 22	25	2
1	4 098 23	32	3
1	4 098 24	40	3

3-pole - 400 V~

1	4 098 30	2	3
1	4 098 31	6	3
1	4 098 32	10	3
1	4 098 33	16	4.5
1	4 098 34	20	4.5
1	4 098 35	25	4.5
1	4 098 36	32	4.5
1	4 098 37	40	4.5
1	4 098 38	50	4.5
1	4 098 39	63	4.5
1	4 098 40	80	4.5
1	4 098 41	100	4.5
1	4 098 42	125	4.5

4-pole - 400 V~

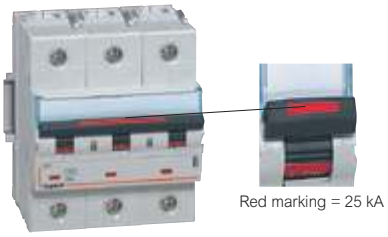
1	4 098 43	2	4
1	4 098 44	6	4
1	4 098 45	10	4
1	4 098 46	16	6
1	4 098 47	20	6
1	4 098 48	25	6
1	4 098 49	32	6
1	4 098 50	40	6
1	4 098 51	50	6
1	4 098 52	63	6
1	4 098 53	80	6
1	4 098 54	100	6
1	4 098 55	125	6

DX³ - 25 kA Z curve MCBs,
please consult us

MCBs DX³ - 36 kA

thermal magnetic MCBs from 10 A to 80 A

4 100 12



4 100 27

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

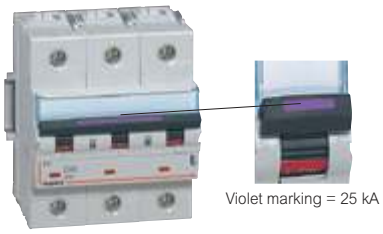
Breaking capacity:
36 kA - IEC 60947-2 - 400 V~
Can be equipped with DX³ auxiliaries and accessories (p. 40)

Pack	Cat.Nos	MCBs DX³ - 36 kA - C curve	
		2-pole - 230/400 V~	
	C curve	Nominal rating In (A)	Number of modules
1	4 100 07	10	1.5
1	4 100 08	16	1.5
1	4 100 09	20	1.5
1	4 100 10	25	1.5
1	4 100 11	32	1.5
1	4 100 12	40	1.5
1	4 100 13	50	1.5
1	4 100 14	63	1.5
1	4 100 15	80	1.5
		3-pole - 400 V~	
1	4 100 20	10	4.5
1	4 100 21	16	4.5
1	4 100 22	20	4.5
1	4 100 23	25	4.5
1	4 100 24	32	4.5
1	4 100 25	40	4.5
1	4 100 26	50	4.5
1	4 100 27	63	4.5
1	4 100 28	80	4.5
		4-pole - 400 V~	
1	4 100 33	10	6
1	4 100 34	16	6
1	4 100 35	20	6
1	4 100 36	25	6
1	4 100 37	32	6
1	4 100 38	40	6
1	4 100 39	50	6
1	4 100 40	63	6
1	4 100 41	80	6

MCBs DX³ - 50 kA

thermal magnetic MCBs from 10 A to 63 A

4 101 51



4 102 17

Dimensions **see e-catalogue**
Technical characteristics **p. 42**

Breaking capacity:
50 kA - IEC 60947-2 - 400 V~
Can be equipped with DX³ auxiliaries and accessories (p. 40)

Pack	Cat.Nos		MCBs DX³ - 50 kA - D curve	
			Single pole 230/400 V~	
	C curve	D curve	Nominal rating In (A)	Number of modules
1	4 101 34	4 101 86	10	1.5
1	4 101 35	4 101 87	16	1.5
1	4 101 36	4 101 88	20	1.5
1	4 101 37	4 101 89	25	1.5
1	4 101 38	4 101 90	32	1.5
1	4 101 39	4 101 91	40	1.5
1	4 101 40	4 101 92	50	1.5
1	4 101 41	4 101 93	63	1.5
			2-pole - 230/400 V~	
1	4 101 47	4 101 99	10	3
1	4 101 48	4 102 00	16	3
1	4 101 49	4 102 01	20	3
1	4 101 50	4 102 02	25	3
1	4 101 51	4 102 03	32	3
1	4 101 52	4 102 04	40	3
1	4 101 53		50	3
1	4 101 54		63	3
			3-pole - 400 V~	
1	4 101 60	4 102 12	10	4.5
1	4 101 61	4 102 13	16	4.5
1	4 101 62	4 102 14	20	4.5
1	4 101 63	4 102 15	25	4.5
1	4 101 64	4 102 16	32	4.5
1	4 101 65	4 102 17	40	4.5
1	4 101 66	4 102 18	50	4.5
1	4 101 67	4 102 19	63	4.5
			4-pole - 400 V~	
1	4 101 73	4 102 25	10	6
1	4 101 74	4 102 26	16	6
1	4 101 75	4 102 27	20	6
1	4 101 76	4 102 28	25	6
1	4 101 77	4 102 29	32	6
1	4 101 78	4 102 30	40	6
1	4 101 79	4 102 31	50	6
1	4 101 80	4 102 32	63	6

For detailed dimensions,
see e-catalogue

Add-on modules DX³

for 1 module/pole DX³ MCBs

4 104 01

4 104 71

4 105 55

Dimensions **see e-catalogue**
Technical characteristics **p. 43**

Conform to IEC 61009-1
• AC type ⏦: detect AC components faults
• A type ⏦: detect AC and DC component faults
• Hpi type ⏦ Hpi: detect faults with AC and DC components, increased immunity to false tripping
For mounting on the right-hand side of 1 module per pole DX³ MCBs

Pack	Cat.Nos	2-pole - 230 V~	
		AC Type ⏦ 30 mA	
		Nominal rating In (A)	Number of modules
1	4 104 01	40	2
1	4 104 02	63	2
		AC Type ⏦ 300 mA	
1	4 104 13	40	2
1	4 104 14	63	2
		AC Type ⏦ 300 mA selective	
1	4 104 24	63	2
		AC Type ⏦ 1000 mA selective	
1	4 104 26	63	2
		A Type ⏦ 30 mA	
1	4 104 28	40	2
1	4 104 29	63	2
		A Type ⏦ 300 mA	
1	4 104 31	40	2
1	4 104 32	63	2
		Hpi Type ⏦ Hpi 30 mA	
1	4 104 35	63	2

Pack	Cat.Nos	3-pole - 400 V~	
		AC Type ⏦ 30 mA	
		Nominal rating In (A)	Number of modules
1	4 104 71	40	3
1	4 104 72	63	3
		AC Type ⏦ 300 mA	
1	4 104 74	40	3
1	4 104 75	63	3
		AC Type ⏦ 300 mA selective	
1	4 104 77	63	3
		A Type ⏦ 30 mA	
1	4 104 80	63	3
		A Type ⏦ 300 mA	
1	4 104 83	63	3
		Hpi Type ⏦ Hpi 30 mA	
1	4 104 86	63	3

Pack	Cat.Nos	4-pole - 400 V~	
		AC Type ⏦ 30 mA	
		Nominal rating In (A)	Number of modules
1	4 104 99	40	3
1	4 105 00	63	3
		AC Type ⏦ 300 mA	
1	4 105 11	40	3
1	4 105 12	63	3
		AC Type ⏦ 300 mA selective	
1	4 105 21	63	3
		AC Type ⏦ 1000 mA selective	
1	4 105 23	63	3
		A Type ⏦ 30 mA	
1	4 105 25	40	3
1	4 105 26	63	3
		A Type ⏦ 300 mA	
1	4 105 28	40	3
1	4 105 29	63	3
		A Type ⏦ 300 mA selective	
1	4 105 31	63	3
		Hpi Type ⏦ Hpi 30 mA	
1	4 105 34	63	3
		Hpi Type ⏦ Hpi 300 mA selective	
1	4 105 55	63	3

Add-on modules DX³

for 1.5 module/pole DX³ MCBs

4 106 43

Dimensions **see e-catalogue**
Technical characteristics **p. 43**

Conform to IEC 61009-1
• AC type ~: detect AC components faults
• Hpi type ~ Hpi: detect faults with AC and DC components, increased immunity to false tripping
For mounting on the right-hand side of 1.5 module per pole DX³ MCBs

Pack	Cat.Nos		
		2-pole - 230 V~	
		AC Type ~ 30 mA	
		Nominal rating In (A)	Number of modules
1	4 105 68	125	4
		AC Type ~ 300 mA	
1	4 105 71	125	4
		Hpi Type ~ Hpi 30 mA	
1	4 105 76	63	2
1	4 105 78	125	4
		Hpi Type ~ Hpi 300 mA	
1	4 105 82	125	4
		Hpi Type ~ Hpi adjustable from 300 to 1000 mA	
1	4 105 83	63	4
		3-pole - 400 V~	
		Hpi Type ~ Hpi 30 mA	
		Nominal rating In (A)	Number of modules
1	4 106 05	63	3
		Hpi Type ~ Hpi 300 mA	
1	4 106 08	63	3
		Hpi Type ~ Hpi adjustable from 300 to 1000 mA	
1	4 106 11	63	6
		4-pole - 400 V~	
		AC Type ~ 30 mA	
		Nominal rating In (A)	Number of modules
1	4 106 25	125	6
		AC Type ~ 300 mA	
1	4 106 29	125	6
		Hpi Type ~ Hpi 30 mA	
1	4 106 36	63	3
1	4 106 38	125	6
		Hpi Type ~ Hpi 300 mA	
1	4 106 40	63	3
1	4 106 42	125	6
		Hpi Type ~ Hpi adjustable from 300 to 1000 mA	
1	4 106 43	63	6

Add-on modules DX³

Compatibility MCBs/add-on modules

Breaking capacity	Curve	Number of poles	Add-on module for 1 module/pole MCBs	Add-on module for 1.5 module/pole MCBs
6000 / 10 kA	B, C, D	2P, 3P, 4P	All range	-
10000 / 16 kA	B, C, D	2P, 3P, 4P	In ≤ 63 A	In ≥ 80 A
25 kA	B, C, Z	3P, 4P	In ≤ 25 A	In ≥ 32 A
		2P	In ≤ 32 A	In ≥ 40 A
	D	3P, 4P	In ≤ 10 A	In ≥ 12,5 A
		2P	In ≤ 25 A	In ≥ 32 A
50 kA	B, C, D	2P, 3P, 4P		All range

Adjustable add-on modules, Hpi type

Easy to access settings on front panel with sealable transparent cover
Sensitivity: 300, 500 and 1000 mA
Time delay: instantaneous, selective (60 ms) or delayed (150 ms)

For detailed dimensions,
see e-catalogue

Auxiliaries, remote control and accessories DX³


4 062 58


4 062 60


4 062 62


4 062 66


4 062 78


4 062 82


4 062 91

Technical characteristics **p. 42**

Auxiliaries

Mounted on the left-hand side of the devices
Possible configuration per device:
3 auxiliaries including 1 control auxiliary
Auxiliaries common to MCBs, RCBOs RCDs and isolating switches
Allow insertion of the supply busbar

Pack	Cat.Nos		No. of modules
		Signalling auxiliaries	
1	4 062 58	Auxiliary changeover switch, 6 A - 250 V~ Indicates the position of the contacts of the MCB, RCD or isolating switch	0.5
1	4 062 60	Fault signalling changeover switch, 6 A - 250 V~ Indicates opening on a fault	0.5
1	4 062 62	Auxiliary changeover switch, 6 A - 250 V~ Can be changed to a fault signalling changeover switch	0.5
1	4 062 66	Auxiliary changeover switch + fault signalling changeover switch, 6 A - 250 V~ Can be changed to 2 auxiliary changeover switches	1
		Current shunt trips Used for remote tripping of an MCB, RCD, RCBO or isolating switch at the supply end	
1	4 062 76	12 to 48 V~/=	1
1	4 062 78	110 to 415 V~	1
		Undervoltage releases Time delay adjustable from 0 to 300 ms	
1	4 062 80	24 to 48 V~/=	1
1	4 062 82	230 V~	1
		Stand-alone release for N/C push-button Used for positive safety tripping on the control circuit via an N/C push-button Prevents the device with which it is used tripping if there is no supply voltage, while retaining the possibility of tripping via the control circuit for 60 hours minimum Not suitable for the supply circuits of moving machinery (e.g.: machine tools)	
1	4 062 87	Stand-alone release, 230 V~ supplied with battery	1.5
1	4 062 85	Replacement battery for release Cat.No 4 062 87	

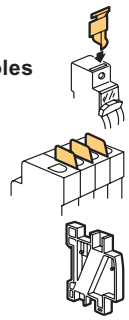
Motorised controls

For mounting on the left-hand side of 1 module/pole MCBs, RCBOs and RCDs
Enable the products with which they are used to be opened and closed remotely
Take one control auxiliary and one signalling auxiliary
The signalling auxiliary must be placed between the remote control and the control auxiliary

Pack	Cat.Nos		Control voltage	No. of modules
		Standard		
1	4 062 91		230 V~	1
		With integrated automatic resetting Automatically resets the product with which it is used, thus ensuring continuity of service		
1	4 062 93		24-48 V~/⎓	2
1	4 062 95		230 V~	2

Accessories

Pack	Cat.Nos		
		Padlocking	
2	4 063 03	Support for one Ø5 or Ø6 mm padlock for DX³ MCBs and RCDs or isolating switches	
1	0 227 97	Ø6 shackle type padlock	
3	4 063 13	Ø5 shackle type padlock	
		Sealable screw cover - 4 separable poles	
2	4 063 04	For DX³ MCBs, 1 module per pole	
2	4 063 12	For DX³ MCBs, 1.5 module per pole	
		Insulating shields For DX³ MCBs, 1 module per pole	
1	4 063 05	Pole insulating shield (set of 6)	
		Spacing units with feedthrough	
10	4 063 07	0.5 module	
		Aluminium terminals	
1	4 063 10	50 mm²	
1	4 063 11	95 mm² for 1.5 module/pole MCBs	
		Terminal shields	
1	4 063 06	For 1.5 module/pole products (set of 2)	



STOP&GO automatic resetting for DX³

4 062 88

Pack	Cat.Nos	STOP&GO automatic resetting		
		For mounting on the left-hand side of 2 module Ph+N or 2P RCDs, MCBs, RCBOs ≤ 63 A Automatically reset the device with which they are used in the event of false tripping after a transient fault (e.g. : lightning) Check the condition of the installation before resetting Indicate any permanent fault (residual current or short-circuit fault) Take one control auxiliary and one signalling auxiliary		
		Standard		
1	4 062 88	Control voltage 230 V~	No. of modules 2	
		Self-test unit With periodic testing of the residual current device with which it is used (sensitivity 30 mA or less)		
1	4 062 95	230 V~	2	

STOP&GO automatic resetting for DX³

Operating principle

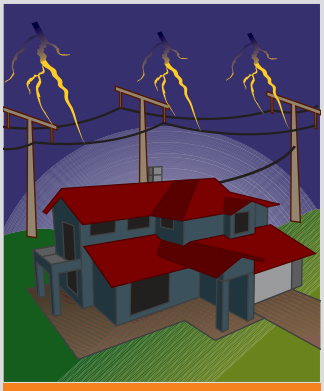
Temporarily electrical disturbances and other external events can cause unwanted tripping of different devices protecting electrical installation

STOP&GO verifies automatically the state of the installation, before resetting and launches a visual and audible alarm signal in case of permanent fault detection (short-circuit or residual current)

After verifying the state of the installation, STOP&GO automatic resets the associated protection device in order to immediatly re-establish power supply and avoid unwanted consequences

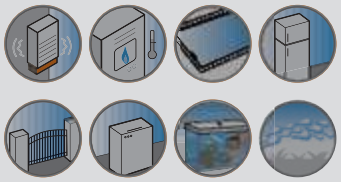
STOP&GO does not protect the installation against lightning strikes
For an efficient protection against lightning, use voltage surge protectors

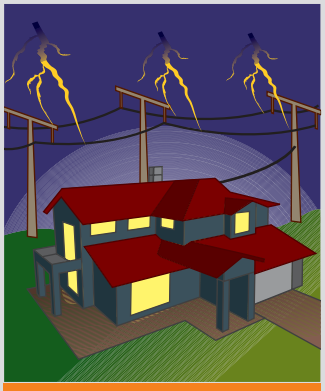
The Autotest version is specially suitable for installations equipped with residual current protection devices (RCD's and RCBOs)
STOP&GO periodically does an automatic test of the functionning of residual current protection devices. The manual test is no longer needed



Installation without STOP&GO

Mains fault due to temporarily electrical disturbances
Electrical devices are not powered anymore





Installation with STOP&GO

STOP&GO automatic resets the associated protection device in order to immediatly re-establish power supply

Performance of MCBs and auxiliaries

Breaking capacity in IT neutral earthing system

MCB single pole breaking capacity at 400 V according to IEC 60947-2

DX³ 10000 16 kA	1P/2P/3P/4P	4 kA
DX³ 25 kA	1P/2P/3P/4P	6.25 kA
DX³ 36 kA	2P/3P/4P	9 kA
DX³ 50 kA	1P/2P/3P/4P	12.5 kA

Breaking capacity in the event of short-circuit to earth and insulation voltage

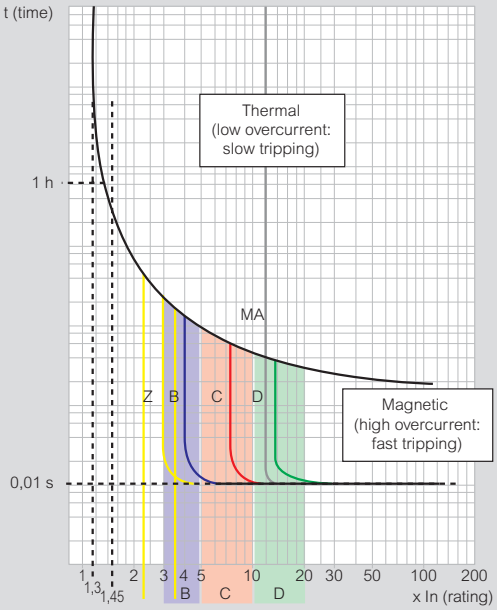
	1P/2P/3P/4P 230/400 V~ MCBs			
	DX³ 10000 16 kA	**DX³ 25 kA**	**DX³ 36 kA**	**DX³ 50 kA**
Icn1	16000 A	25000 A	36000 A	50000 A
Ui	500 V	500 V	500 V	500 V

Icn 1: Breaking capacity on 1 pole for multipole MCBs in the event of short-circuit to earth
Ui: Rated insulation voltage

Terminal connection cross-sections (mm²)

Copper cable	Rigid	Flexible
DX³ 6000 10 kA	35	25
DX³ 10000 16 kA		
DX³ 80 to 125 A	70	50
DX³ 25 kA ≥ 32 A (C curve) ≥ 16 A (D curve) ≤ 63 A	50	35
DX³ 36 kA, DX³ 50 kA and add-on modules		
Auxiliaries	2.5	2.5

MCB tripping curves



Thermal tripping for an ambient temperature 30°C
In = nominal current (rating) of MCB

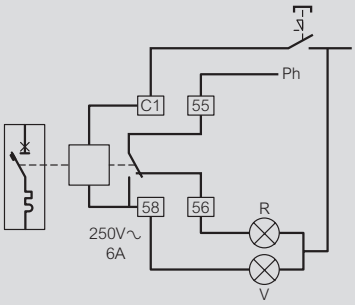
Curves	Magnetic threshold settings	
Z(1)	2.4 to 3.6 In	
B	3 to 5 In	
C	5 to 10 In	
D	10 to 14 In	(10 to 20 acc. to the stds)
MA(1)	12 to 14 In	

1: On request

Technical characteristics of auxiliaries

Max. connection cross-section: 2.5 mm²
Operating temperature: - 25°C to + 70°C

Shunt trips



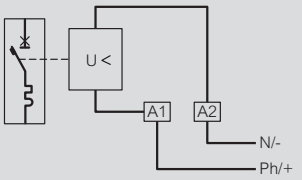
Nominal voltage (Un)
- 12 to 48 V~ and =
- 110 to 415 V~ and 110 to 125 V=

Equipped with a signalling contact which indicates tripping of the shunt trip and automatically breaks the coil.
Min. and max. voltage: 0.7 to 1.1 Un
Tripping time: less than 20 ms
Power consumption: at 1.1 x 48 V = 121 VA
at 1.1 x 415 V = 127 VA
Impedance: 12 to 48 V = 23 Ω
110 to 415 V = 1640 Ω

Consumption	Umin.	Umax.
12 to 48 V	522 mA	2610 mA
110 to 415 V	69 mA	259 mA

Undervoltage releases

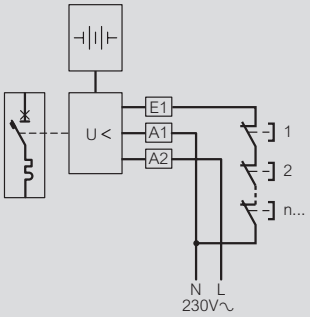
Pull-in voltage ≥ 0.55 Un
Tripping time: 100 to 400 ms ± 10% (adjustable)
Power consumption: 24 V~ and ⎓ : 0.1 VA
48 V~ and ⎓ : 0.2 VA
230 V~ : 1 VA



Nominal voltage:
24 and 48 V~ and ⎓
230 V~

Stand-alone releases for N/C push-buttons

Min. and max. operating voltage: 196 to 250 V~
Power consumption: 1.4 VA



Signalling auxiliaries

Umin.: 24 V~ / ⎓ and Imin.: 5 mA

Performance of add-on modules

AC type ~ - Standard applications

Detection of 50-60 Hz AC residual currents

A type ~ - Specific applications: dedicated lines

In addition to the characteristics of AC type add-on modules, A type add-on modules also detect residual currents with DC components. They are used whenever the fault currents are not sinusoidal. They are particularly suitable for the following dedicated line applications:

• On circuits where class 1 equipment may produce fault currents with DC components, such as variable speed drives with frequency inverter, etc.

Hpi type ~ Hpi - Special applications

Hpi add-on modules, with additional immunity to false tripping, which is much higher than the level required by the standard, detect residual currents with AC and DC components (A type), operate between - 25°C and + 40°C, and are used in the following special cases:

- When loss of data would be detrimental, such as computer equipment power supply lines (banks, military instrumentation, airline reservation centres, etc.)
- When loss of operation would be detrimental (automated machines, medical instrumentation, freezer lines, etc.)

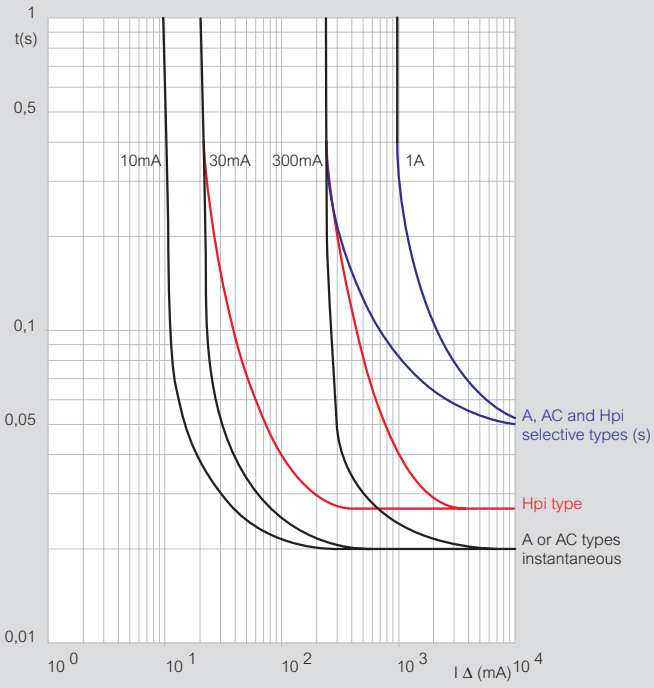
• In places where there is a high risk of lightning strikes

- On sites with lines subject to considerable interference (use of fluorescent lights, etc)
- On sites with very long lines

Special case of continuity of service

In certain locations where no staff are present and in which continuity of service is particularly important, false tripping of MCBs is not permitted (isolated telephone/TV or radio substations, pumping stations, etc.)
Combining an Hpi RCBO with a motorised control and a STOP & GO recloser provides optimum continuity of service

Average residual current performance curves



Residual current breaking capacity of DX³ add-on modules

IΔm according to EN 61009-1
AC, A and Hpi add-on modules

DX³ add-on modules used with an MCB		IΔm
DX³ (1 mod./pole)	25 kA ≤ 25 A (B, C, Z curves) 25 kA ≤ 10 A (D, MA curves)	6000 A
DX³ (1.5 mod./pole)	10000 16 kA (80 to 125 A) 25 kA ≥ 32 A (B, C, Z curves) 25 kA ≥ 12.5 A (D, MA curves) 36 kA 50 kA	30000 A

Selectivity tables

MCBs/MCBs (in A)

Downstream MCB	Upstream MCB	DX³ 6000 - 10 kA / DX³ 10000 - 16 kA B curve				DX³ 6000 - 10 kA / DX³ 10000 - 16 kA C curve						
	In (A)	32	40	50	63	32	40	50	63	80	100	125
DX³ 6000 - 10 kA B & C curve	≤ 6	128	160	200	252	240	300	375	472	4000	T	T
	10	128	160	200	252	240	300	375	472	3000	5000	T
	13	128	160	200	252	240	300	375	472	2500	4000	6000
	16	128	160	200	252	240	300	375	472	2000	3600	5500
	20		160	200	252	240	300	375	472	1600	3000	4000
	25			200	252	240	300	375	472	1300	2400	3300
	32				252		300	375	472	1000	1800	2700
	40							375	472	800	1600	2400
	50								472	800	900	1700
	63									650	900	1200
DX³ 10000 - 16 kA B & C curve	≤ 6	128	160	200	252	240	300	375	472	4000	T	T
	10	128	160	200	252	240	300	375	472	3000	5000	T
	16	128	160	200	252	240	300	375	472	2000	3600	5500
	20		160	200	252	240	300	375	472	1600	3000	4000
	25			200	252	240	300	375	472	1300	2400	3300
	32				252		300	375	472	1000	1800	2700
	40							375	472	800	1600	2400
	50								472	800	900	1700
	63									650	900	1200
	80										600	750
	100											750
	125											
DX³ 10000 - 16 kA D curve	80											
	100											
	125											
DX³ 25 kA B & C curve	≤ 6					240	300	375	472	4000	T	T
	10					240	300	375	472	3000	5000	T
	16					240	300	375	472	2000	3600	5500
	20					240	300	375	472	1600	3000	4000
	25					240	300	375	472	1300	2400	3300
	32						300	375	472	1000	1800	2700
	40							375	472	800	1600	2400
	50								472	800	900	1700
	63									650	900	1200
	80										600	750
	100											750
	125											
DX³ 25 kA D curve	≤ 6											
	10											
	16											
	20											
	25											
	32											
	40											
	50											
	63											
	80											
	100											
	125											
DX³ 36 kA C curve	≤ 6											
	10											
	16											
	20											
	25											
	32											
	40											
	50											
	63											
	80											
DX³ 50 kA B & C curve	10											
	16											
	20											
	25											
	32											
	40											
	50											
	63											
DX³ 50 kA D curve	10											
	16											
	20											
	25											
	32											
	40											
	50											
	63											

T: total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2
The magnetic threshold and the nominal rating of the downstream MCB must always be inferior to the ones of the upstream MCB

DX³ 25 kA / DX³ 36 kA / DX³ 50 kA C curve							DX³ 25 kA / DX³ 36 kA / DX³ 50 kA D curve						
32	40	50	63	80	100	125	32	40	50	63	80	100	125
700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T
500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T
400	600	1200	1500	2500	4000	6000	400	600	1200	1500	2500	4000	6000
300	500	700	1300	2000	3600	5500	384	500	700	1300	2000	3600	5500
300	400	500	1000	1600	3000	4000	384	480	600	1000	1600	3000	4000
240	400	500	800	1300	2400	3300	384	480	600	800	1300	2400	3300
	300	500	600	1000	1800	2700		480	600	756	1100	1450	2700
		400	600	800	1600	2400			600	756	1000	1250	2400
			500	800	900	1700				756	950	1200	1700
				650	900	1200					950	1200	1500
700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T
500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T
300	500	700	1300	2000	3600	5500	384	500	700	1300	2000	3600	5500
300	400	500	1000	1600	3000	4000	384	480	600	1000	1600	3000	4000
240	400	500	800	1300	2400	3300	384	480	600	800	1300	2400	3300
	300	500	600	1000	1800	2700		480	600	756	1100	1450	2700
		400	600	800	1600	2400			600	756	1000	1250	2400
			500	800	900	1700				756	950	1200	1700
				650	900	1200					950	1200	1500
					600	750						1200	1500
						750							1500
												1200	1500
													1500
700	1200	1500	3000	4000	T	T	700	1200	1500	3000	4000	T	T
500	700	1000	1800	3000	5000	T	500	700	1000	1800	3000	5000	T
300	500	700	1300	2000	3600	5500	384	500	700	1300	2000	3600	5500
300	400	500	1000	1600	3000	4000	384	480	600	1000	1600	3000	4000
240	400	500	800	1300	2400	3300	384	480	600	800	1300	2400	3300
	300	500	600	1000	1800	2700		480	600	756	1100	1450	2700
		400	600	800	1600	2400			600	756	1000	1250	2400
			500	800	900	1700				756	950	1200	1700
				650	900	1200					950	1200	1500
					600	750						1200	1500
						750							1500
700	1200												
500	700												
300	500												
	400												
700	1200	1500	3000				700	1200	1500	3000			
500	700	1000	1800				500	700	1000	1800			
300	500	700	1300				384	500	700	1300			
300	400	500	1000				384	480	600	1000			
240	400	500	800				384	480	600	800			
	300	500	600					480	600	756			
		400	600						600	756			
			500							756			
500	700	1000	1800				500	700	1000	1800			
300	500	700	1300				384	500	700	1300			
300	400	500	1000				384	480	600	1000			
240	400	500	800				384	480	600	800			
	300	500	600					480	600	756			
		400	600						600	756			
			500							756			
500	700	1000	1800				500	700	1000	1800			
300	500	700	1300				384	500	700	1300			
	400	500	1000				384	480	600	1000			
		500	800				384	480	600	800			
			600					480	600	756			
									600	756			
										756			

Back up between MCCBs and MCBs (in kA)

In 3 phases networks + N 400/415 V according to IEC 60947-2

MCBs/MCCBs upstream / MCBs downstream		DX³ 10000 16 kA B, C and D curves 10 to 125 A	DX³ 25 kA B, C and D curves 10 to 125 A	DX³ 50 kA C and D curves 10 to 63 A	DPX-E 125 16 kA 16 to 125 A	DPX 125 25 kA 16 to 125 A	DPX 125 36 kA 16 to 125 A	DPX 160 25 kA 63 to 160 A	DPX 160 36 kA 63 to 160 A	DPX 160 50 kA 40 to 160 A
DX³ 6000 - 10 kA B, C and D curves	≤ 20 A	16 kA	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	25 A	16 kA	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	32 A	16 kA	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	40 A	16 kA	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	50 A	16 kA	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	63 A	-	-	-	16 kA	25 kA	25 kA	20 kA	20 kA	20 kA
DX³ 10000 - 16 kA B, C and D curves	≤ 20 A	-	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	25 A	-	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	32 A	-	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	40 A	-	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	50 A	-	25 kA	50 kA	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	63 A	-	-	-	16 kA	25 kA	25 kA	20 kA	20 kA	20 kA
	80 et 100 A	-	-	-	16 kA	20 kA	20 kA	20 kA	20 kA	20 kA
	125 A	-	-	-	-	-	30 kA	20 kA	20 kA	20 kA
DX³ 25 kA B and C curve	≤ 25 A	-	-	50 kA	-	-	30 kA	-	30 kA	30 kA
	32 to 50 A	-	-	50 kA	-	-	30 kA	-	30 kA	30 kA
	63 to 80 A	-	-	-	-	-	30 kA	-	30 kA	30 kA
	100 et 125 A	-	-	-	-	-	30 kA	-	30 kA	30 kA
DX³ 25 kA D curves	≤ 10 A	-	-	50 kA	-	-	30 kA	-	30 kA	30 kA
	16 to 63 A	-	-	50 kA	-	-	30 kA	-	30 kA	30 kA
DX³ 36 kA C curve	10 to 50 A	-	-	50 kA	-	-	-	-	-	-
	63 A	-	-	-	-	-	-	-	-	-
	80 A	-	-	-	-	-	-	-	-	-
DX³ 50 kA C and D curves	≤ 4 to 63 A	-	-	-	-	-	-	-	-	-

In 3 phases networks + N 230/240 V according to IEC 60947-2

MCBs/MCCBs upstream / MCBs downstream		DX³ 10000 16 kA B, C and D curves ≤ 32 A	DX³ 10000 16 kA B, C and D curves 40 to 125 A	DX³ 25 kA B, C and D curves ≤ 32 A	DX³ 25 kA B, C and D curves 40 to 125 A	DX³ 50 kA C curves ≤ 32 A	DX³ 50 kA C curves 40 to 63 A	DX³ 50 kA D curves ≤ 32 A	DX³ 50 kA D curves 40 to 63 A	DPX 125 25 kA 16 to 125 A	DPX 125 36 kA 16 to 125 A
DX³ 6000 - 10 kA B, C and D curves	≤ 20 A	32 kA	25 kA	50 kA	25 kA	50 kA	50 kA	50 kA	50 kA	35 kA	40 kA
	25 to 40 A	-	25 kA	-	25 kA	-	50 kA	-	50 kA	35 kA	40 kA
	50 A	-	25 kA	-	25 kA	-	-	-	-	25 kA	25 kA
	63 A	-	25 kA	-	25 kA	-	-	-	-	25 kA	25 kA
DX³ 10000 - 16kA B, C and D curves	≤ 20 A	-	-	50 kA	32 kA	70 kA	70 kA	70 kA	70 kA	35 kA	40 kA
	25 to 40 A	-	-	-	32 kA	-	70 kA	-	70 kA	35 kA	40 kA
	50 et 63 A	-	-	-	32 kA	-	-	-	-	35 kA	35 kA
	80 to 125 A	-	-	-	-	-	-	-	-	35 kA	35 kA
DX³ 25kA B and C curves	≤ 25 A	-	-	-	-	50 kA	50 kA	70 kA	70 kA	-	-
	32 to 125 A	-	-	-	-	65 kA	50 kA	-	70 kA	-	-
DX³ 25kA D curves	≤ 10 A	-	-	-	-	50 kA	50 kA	70 kA	70 kA	-	-
	16 to 63 A	-	-	-	-	65 kA	50 kA	70 kA	70 kA	-	-
DX³ 36 kA C curve	10 to 50 A	-	-	-	-	85 kA	72 kA	-	-	-	-
	63 A	-	-	-	-	-	-	-	-	-	-
	80 A	-	-	-	-	-	-	-	-	-	-
DX³ 50kA C and D curves	≤ 4 to 63 A	-	-	-	-	-	-	-	-	-	-

TT or TN neutral earthing systems: for a 230/400 V supply in order to determine the breaking capacity of a 2 P MCB used as L + N (230 V) downstream a 2 P or 4 P circuit breaker use values indicated in the table for 230/240 V

	DPX 250 ER			DPX 250	DPX-H 250	DPX 630	DPX-H 630	DPX 1250 and 1600 + DPX-H 1250 and 1600
	25 kA 100 to 250 A	36 kA 100 to 250 A	50 kA 100 to 250 A	36 kA 40 to 250 A	70 kA 40 to 250 A	36 kA 160 to 630 A	70 kA 160 to 630 A	50 kA and 70 kA 630 to 1600 A
	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	20 kA
	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	15 kA
	25 kA	25 kA	25 kA	25 kA	25 kA	20 kA	20 kA	15 kA
	25 kA	25 kA	25 kA	25 kA	25 kA	16 kA	16 kA	12,5 kA
	20 kA	20 kA	20 kA	20 kA	20 kA	16 kA	16 kA	12,5 kA
	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	20 kA
	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	16 kA
	25 kA	25 kA	25 kA	25 kA	25 kA	20 kA	20 kA	16 kA
	25 kA	25 kA	25 kA	25 kA	25 kA	20 kA	20 kA	16 kA
	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	16 kA
	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	16 kA
	20 kA	20 kA	20 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	-	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA
	-	30 kA	30 kA	36 kA	36 kA	36 kA	36 kA	36 kA
	-	30 kA	30 kA	36 kA	36 kA	36 kA	36 kA	36 kA
	-	30 kA	30 kA	36 kA	36 kA	30 kA	30 kA	30 kA
	-	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA
	-	30 kA	30 kA	36 kA	36 kA	36 kA	36 kA	36 kA
	-	-	50 kA	-	50 kA	-	50 kA	50 kA
	-	-	50 kA	-	50 kA	-	50 kA	50 kA
	-	-	50 kA	-	50 kA	-	36 kA	36 kA
	-	-	-	-	70 kA	-	70 kA	70 kA

	DPX 160			DPX 250 ER			DPX 250	DPX-H 250	DPX 630	DPX-H 630	DPX 1250 and 1600 + DPX-H 1250 and 1600
	25 kA 63 to 160 A	36 kA 63 to 160 A	50 kA 40 to 160 A	25 kA 100 to 250 A	36 kA 100 to 250 A	50 kA 100 to 250 A	36 kA 40 to 250 A	70 kA 40 to 250 A	36 kA 160 to 630 A	70 kA 160 to 630 A	50 kA + 70 kA 630 to 1600 A
	40 kA	50 kA	50 kA	40 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	40 kA	50 kA	50 kA	40 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	50 kA	50 kA	30 kA	30 kA	25 kA
	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	50 kA	50 kA	30 kA	30 kA	25 kA
	40 kA	50 kA	50 kA	40 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	40 kA	50 kA	50 kA	40 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	50 kA	50 kA	36 kA	36 kA	36 kA
	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	50 kA	50 kA	32 kA	32 kA	32 kA
	-	-	55 kA	-	-	55 kA	55 kA	60 kA	55 kA	60 kA	50 kA
	-	-	55 kA	-	-	55 kA	55 kA	60 kA	55 kA	60 kA	50 kA
	-	-	55 kA	-	-	55 kA	55 kA	60 kA	55 kA	60 kA	50 kA
	-	-	55 kA	-	-	55 kA	55 kA	60 kA	55 kA	60 kA	50 kA
	-	-	-	-	-	-	-	75 kA	-	75 kA	75 kA
	-	-	-	-	-	-	-	75 kA	-	75 kA	75 kA
	-	-	-	-	-	-	-	75 kA	-	75 kA	75 kA
	-	-	-	-	-	-	-	120 kA	-	120 kA	120 kA

Protection of DC circuits

DX³ 6000 and DX³ 10000 MCBs (1P/2P/3P/4P - In ≤ 63 A) designed for use in 230/400 V~ supplies, can also be used in DC circuits
In this case, the following deratings and precautions must be taken into account

1 - Protection against short-circuits

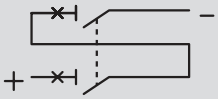
Max. magnetic tripping threshold: multiplied by 1.4
Example: For a C curve MCB for which the AC tripping threshold is between 5 and 10 In, the DC tripping threshold will be between 7 and 14 In

2 - Protection against overloads

The time/current thermal tripping curve is the same as for AC

3 - Operating voltage

Max. operating voltage: 80 V per pole (60 V for single-pole + N MCBs)
For voltages higher than this value, several poles must be wired in series

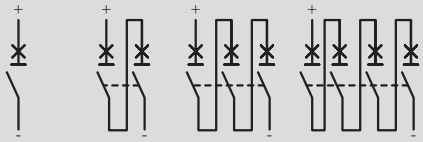


Example: for a 110 V voltage, use a 2-pole MCB and connect the 2 poles in series

4 - Breaking capacity

4000 A for a single pole MCB at max. voltage (80 V⎓ per pole)

For other voltages, the breaking capacities are as follows:



DX³ 6000		voltage	single-pole	2P	3P	4P
Acc. to IEC 60947.2	Icu	≤ 48 V	6 kA	6 kA		
		110 V		6 kA	6 kA	
		230 V				10 kA
	Ics(1)	≤ 48 V	100 %	100 %		
		110 V		100 %	100 %	
		230 V				100 %

DX³ 10000		voltage	single-pole	2P	3P	4P
Acc. to IEC 60947.2	Icu	≤ 48 V	10 kA	10 kA		
		110 V		10 kA	10 kA	
		230 V				15 kA
	Ics(1)	≤ 48 V	100 %	100 %		
		110 V		100 %	100 %	
		230 V				100 %

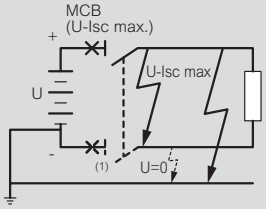
1: As a % of Icu

5 - Distribution of breaking poles

To choose the MCB and determine the pole distribution necessary for breaking on each of the polarities, it is necessary to know how the installation is earthed

• Supply with one polarity earthed:

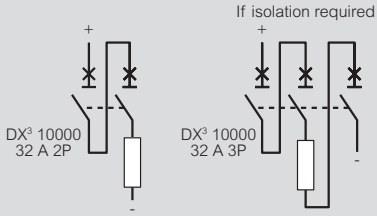
Place all the poles necessary for breaking on the other polarity If isolation is required, an additional pole must be added on the earthed polarity



1: Only if isolation required

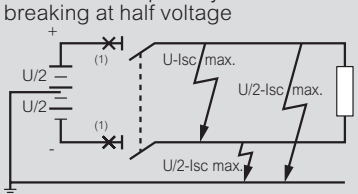
Example: circuit earthed via the negative polarity / U = 110 V⎓ / Isc = 10 kA / In = 32 A
Protect the positive polarity using an MCB capable of breaking 10 kA at 110 V (DX³ 10000 2P 32 A with 2 poles on the positive polarity)
For isolation, use a DX³ 10000 3P 32 A with 2 poles on the positive polarity and one pole on the negative polarity

DX³ 10000		voltage	single-pole	2P	3P	4P
Acc. to IEC 60947.2	Icu	≤ 48 V	10 kA	10 kA		
		110 V		10 kA	10 kA	
		230 V				15 kA



• Network earthed via a middle point:

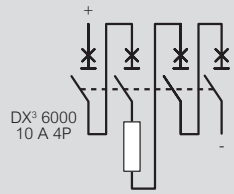
Place on each polarity the number of poles necessary for max. Isc breaking at half voltage



1: MCB (U/2-Isc max.)

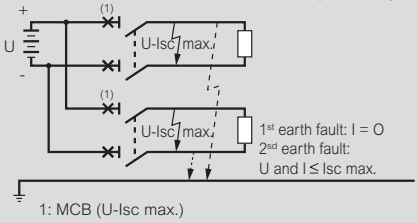
Example: circuit earthed via a middle point / U = 230 V⎓ / Isxc = 6 kA / In = 10 A
Protect each polarity using an MCB capable of breaking 6 kA at half voltage, i.e. 115 V (DX³ 6000 4P 10 A with 2 poles on each polarity)

DX³ 6000		voltage	single-pole	2P	3P	4P
Acc. to IEC 60947.2	Icu	≤ 48 V	6 kA	6 kA		
		110 V		6 kA	6 kA	
		230 V				10 kA



• Isolated earth supply:

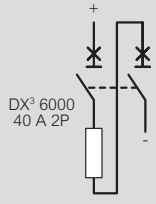
Distribute the poles necessary for breaking over the 2 polarities to provide protection in the event of a double earth fault (particularly if there are a number of circuits in parallel)



1: MCB (U-Isc max.)

Example: isolated earth circuit / U = 48 V⎓ / Isc = 4,5 kA / In = 40 A
Protect the installation with an MCB capable of breaking 4.5 kA at 48 V and protect each polarity (DX³ 6000 MCB 2P 40 A with one pole on each polarity)

DX³ 6000		voltage	single-pole	2P	3P	4P
Acc. to IEC 60947.2	Icu	≤ 48 V	6 kA	6 kA		
		110 V		6 kA	6 kA	
		230 V				10 kA



Power contactors CX³ with handle

from 16 A to 63 A

4 125 44

4 125 56

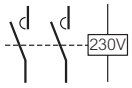
Dimensions **see e-catalogue**
Technical charcteristics **p. 51**

Conform to IEC/EN 61095
Space for power supply busbar on top (up to 25 A)

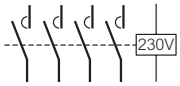
Power contactors with 24 V~ coil and handle

Manual override for test and repair function, carried out via the handle
Permanent “ON” or “OFF” without automatic reset

2-pole - 250 V~

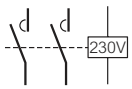
Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
1	4 125 14	25 A		2 N/O	1
1	4 125 15[1]	40 A		2 N/O	2
1	4 125 16[1]	63 A		2 N/O	2

4-pole - 400 V~

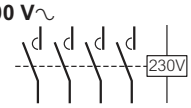
Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
1	4 125 17	25 A		4 N/O	2
1	4 125 18[1]	40 A		4 N/O	3
1	4 125 19[1]	63 A		4 N/O	3

Low noise power contactors with 230 V~ coil and handle

2-pole - 250 V~

Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
1	4 125 58	25 A		2 N/O	1
1	4 125 59[1]	40 A		2 N/O	2
1	4 125 60[1]	63 A		2 N/O	2

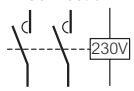
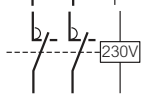
4-pole - 400 V~

Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
1	4 125 61	25 A		4 N/O	1
1	4 125 62[1]	40 A		4 N/O	2
1	4 125 63[1]	63 A		4 N/O	2

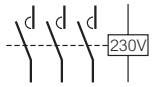
Power contactors with 230 V~ coil and handle

Manual override for test and repair function, carried out via the handle
Permanent “ON” or “OFF” without automatic closing of the contactor

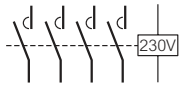
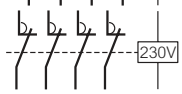
2-pole - 250 V~

Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
4	4 125 44	25 A		2 N/O	1
1	4 125 45[1]	40 A		2 N/O	2
1	4 125 47[1]	63 A		2 N/O	2
1	4 125 48[1]	63 A		2 N/C	2

3-pole 400 V~

Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
1	4 125 49[1]	40 A		3 N/O	3
1	4 125 50[1]	63 A		3 N/O	3

4-pole 400 V~

Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
2	4 125 51	25 A		4 N/O	2
1	4 125 53[1]	40 A		4 N/O	3
1	4 125 56[1]	63 A		4 N/O	3
1	4 125 57[1]	63 A		4 N/C	3

1: Handle can be accessed after removing blanking plate

Power contactors CX³ without handle

from 16 A to 63 A

4 125 05

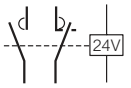
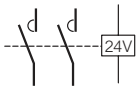
4 125 35

Dimensions **see e-catalogue**
Technical characteristics **p. 51**

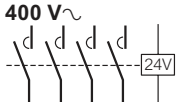
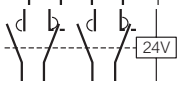
Conform to IEC/EN 61095
Space for power supply busbar on top (up to 25 A)

Power contactors with 24 V~ coil

2-pole - 250 V~

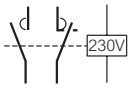
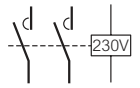
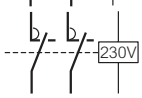
Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
1	4 125 03	16 A		N/C + N/O	1
1	4 125 05	25 A		2 N/O	1

4-pole - 400 V~

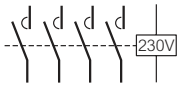
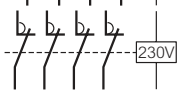
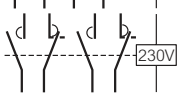
Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
1	4 125 10	25 A		4 N/O	2
1	4 125 09	25 A		2 N/C + 2 N/O	2

Power contactors with 230 V~ coil

2-pole - 250 V~

Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
4	4 125 21	16 A		N/C + N/O	1
10	4 125 23	25 A		2 N/O	1
1	4 125 27	63 A		2 N/O	2
1	4 125 24	25 A		2 N/C	1

4-pole - 400 V~

Pack	Cat.Nos	I max	Connection	Type of contact	Number of modules
5	4 125 35	25 A		4 N/O	2
1	4 125 41	63 A		4 N/O	3
1	4 125 36	25 A		4 N/C	2
1	4 125 33	25 A		2 N/C + 2 N/O	2

Auxiliaries for contactors CX³

4 124 29

4 124 31

Signalling auxiliaries for contactors

Auxiliary changeover switch
Used to signal the position status of the contacts on the product to which it is connected

For 1 module contactors 16 A to 25 A
Maximum 2 auxiliary devices per contactor
Fitted on left-hand side of contactor

For 2 module contactors 25 A
Maximum 2 auxiliary devices per contactor
Fitted on left-hand side of contactor

For 40 and 63 A contactors
Maximum 1 auxiliary device per contactor
Fitted on left-hand side of contactor

Pack	Cat.Nos	I max	Voltage	Contact	Number of modules
1	4 124 29	5 A	250 V~	N/C + N/O	0.5
1	4 124 30	5 A	250 V~	N/C + N/O	0.5
1	4 124 31	5 A	250 V~	N/C + N/O	0.5

For detailed dimensions,
see e-catalogue

Technical characteristics

- Rated impulse withstand voltage (Uimp): 4 kV
- Mechanical endurance (no. of operating cycles): 10^6 cycles
- Operating temperatures: - 25 °C to + 40 °C
- Storage temperatures: - 40 °C to + 70 °C

Contactor protection against short circuits according to standard EN 61095, conditional short-circuit current:

- Iq = 6 kA for 16 to 25 A contactors
- Iq = 3 kA for 40 to 63 A contactors

Circuit breaker or gG fuse rated:

- ≤ 16 A for 16 A rating
- ≤ 25 A for 25 A rating
- ≤ 40 A for 40 A rating
- ≤ 63 A for 63 A rating

• Consumption of a contactor control coil

	16 A and 25 A power contactors				
Coil voltage	24 V∿		230 V∿ low noise	230 V∿	
Current	16 A and 25 A	25 A	25 A	16 A and 25 A	16 A and 25 A
Type of contact	NC + NO 2 NO	4 NO	2 NO	NC + NO 2 NO 2 NC	2 NC + 2 NO 4 NO 4 NC
Dimensions	1 mod.	2 mod.	1 mod.	1 mod.	2 mod.
Holding current	200 mA	300 mA	12 mA	20 mA	20 mA
Inrush current	970 mA	2500 mA	60 mA	90 mA	200 mA

	40 A and 63 A power contactors			
Coil voltage	24 V∿		230 V∿	
Current	40 A and 63 A	40 A and 63 A	40 A and 63 A	40 A and 63 A
Type of contact	2 NO	4 NO	2 NO 2 NC	3 NO 4 NO 4 NC
Dimensions	2 mod.	3 mod.	2 mod.	3 mod.
Holding current	250 mA	270 mA	15 mA	30 mA
Inrush current	1750 mA	1500 mA	150 mA	200 mA

• Recommendations

Insert a spacing module (Cat.No 4 063 07 p. 40):
- every two contactors when the ambient temperature is below 40 °C
- every contactor when the ambient temperature is between 40 and 60 °C

Contactor rating	40 °C	50 °C	60 °C
Ie = 16 A	16 A	14 A	12 A
Ie = 25 A	25 A	22 A	20 A
Ie = 40 A	40 A	36 A	32 A
Ie = 63 A	63 A	57 A	50 A

• Max. connection cross-section in mm²

Conductor type	Ratings ≤ 25 A	Ratings 40 & 63 A
Rigid	6^2 or 2 x 2.5^2	25^2 or 2 x 10^2
Flexible	6^2 or 2 x 2.5^2	25^2 or 2 x 10^2
Flexible with single end cap	6^2	16^2
Flexible with double end cap	2 x 4^2	2 x 16^2

Contactor selection charts

• Incandescent lamps

	Tungsten and halogen filaments 230 V∿							
Nominal wattage	**40 W**	**60 W**	**75 W**	**100 W**	**150 W**	**200 W**	**500 W**	**1000 W**
16 A	45	30	24	19	13	10	4	2
25 A	60	48	38	30	20	15	6	3
40 A	96	77	61	48	32	24	10	5
63 A	154	123	97	77	51	38	15	8

	ELV halogen bulbs with ferromagnetic ballast						ELV halogen bulbs with electronic ballast					
Nominal wattage	**20 W**	**35 W**	**50 W**	**75 W**	**100 W**	**150 W**	**20 W**	**35 W**	**50 W**	**75 W**	**100 W**	**150 W**
16 A	32	20	15	12	9	6	60	40	28	18	14	9
25 A	52	30	24	16	12	8	80	50	40	26	20	13
40 A	68	39	31	21	16	10	112	70	56	36	28	18
63 A	88	51	41	27	20	14	157	98	78	51	39	25

Contactor selection charts (continued)

• Fluorescent tubes with ferromagnetic ballast

	Single parallel compensated fluorescent					Double series compensated fluorescent				
Nominal wattage	**18 W**	**20 W**	**36 W**	**58 W**	**115 W**	**2 x 20 W**	**2 x 36 W**	**2 x 40 W**	**2 x 58 W**	**2 x 140 W**
16 A	24	24	16	11	5	30	24	22	15	6
25 A	33	30	25	17	9	45	38	35	24	10
40 A	43	39	33	22	12	68	57	53	36	15
63 A	56	51	42	29	15	101	86	79	54	23

	Quadruple series compensated fluorescent	Compact fluorescent with built-in starter			
Nominal wattage	**4 x 18 W**	**7 W**	**10 W**	**18 W**	**26 W**
16 A	16	50	40	28	19
25 A	24	60	50	42	28
40 A	36	78	65	55	36
63 A	54	101	85	71	47

• Fluorescent tubes with electronic ballast

	Single fluorescent				Double fluorescent		
Nominal wattage	**18 W**	**30 W**	**36 W**	**58 W**	**2 x 18 W**	**2 x 36 W**	**2 x 58 W**
16 A	72	42	36	22	36	20	12
25 A	110	68	58	36	56	30	19
40 A	165	102	87	54	84	45	29
63 A	248	153	131	81	126	68	43

	Triple fluorescent (series compensated)		Quadruple fluorescent (series compensated)	
Nominal wattage	**3 x 14 W**	**3 x 18 W**	**4 x 14 W**	**4 x 18 W**
16 A	34	26	26	20
25 A	46	38	37	28
40 A	62	51	52	39
63 A	84	69	73	55

	Compact fluorescent with built-in electronic power supply				
Nominal wattage	**7 W**	**11 W**	**15 W**	**20 W**	**23 W**
16 A	120	80	64	50	43
25 A	200	125	90	70	60
40 A	280	175	126	98	84
63 A	392	245	176	137	118

• Discharge lamps with compensation

	Metal halogenide						Low pressure sodium vapour					
Nominal wattage	**35 W**	**70 W**	**100 W**	**150 W**	**250 W**	**400 W**	**18 W**	**35 W**	**55 W**	**90 W**	**135 W**	**180 W**
16 A	10	6	5	3	2	1	12	6	5	3	2	2
25 A	15	9	7	5	3	2	20	10	7	5	3	3
40 A	23	14	11	8	5	3	30	15	11	8	5	5
63 A	34	20	16	11	7	5	45	23	16	11	7	7

	High pressure sodium vapour					High pressure mercury vapour				
Nominal wattage	**70 W**	**150 W**	**250 W**	**400 W**	**1000 W**	**50 W**	**80 W**	**125 W**	**250 W**	**400 W**
16 A	8	7	5	3	1	11	8	6	3	2
25 A	10	9	6	4	2	15	10	8	4	3
40 A	15	14	9	6	3	21	14	11	6	4
63 A	23	20	14	9	5	29	20	16	8	6

	High pressure mixed			
Nominal wattage	**100 W**	**160 W**	**250 W**	**400 W**
16 A	9	6	4	2
25 A	11	7	5	3
40 A	14	9	7	4
63 A	19	12	8	5

Pulse operated latching relays


4 124 01


4 124 12


0 491 20


4 124 29


4 124 36

Dimensions **see e-catalogue**

Noiseless pulse operated latching relay

Conform to standard EN 60669-2-2

Single pole - 16 A - 250 V~

Pack	Cat.Nos	Control voltage	Type of contact	Connection	Number of modules
1	4 124 00	230 V	1 N/O		1

Delayed noiseless pulse operated latching relay

Conform to standard EN 60669-2-2

Single pole - 16 A - 250 V~

Pack	Cat.Nos	Control voltage	Type of contact	Connection	Number of modules
1	4 124 01	230 V	1 N/O		1

Standard pulse operated latching relays

Conform to standard EN 60669-2-2
Maximum 2 auxiliary devices per latching relay

Single pole - 16 A - 250 V~

Pack	Cat.Nos	Control voltage	Type of contact	Connection	Number of modules
1	4 124 04	12 V	1 N/O		1
1	4 124 05	24 V	1 N/O		1
10	4 124 08	230 V	1 N/O		1

2-pole - 16 A - 250 V~

1	4 124 10	24 V	2 N/O		1
1	4 124 11	48 V	2 N/O		1
1	4 124 12	230 V	2 N/O		1

4-pole - 16 A - 250 V~

Can be used for 3-pole assembly

1	4 124 14	24 V	4 N/O		2
1	4 124 16	230 V	4 N/O		2

Surface mounting pulse operated latching relays

10 A - 230 V~ - 50/60 Hz
Suitable for new installations or retrofitting of existing ones
Compatible with electronic ballasts and fluocompact lamps
Mounting on plate or in flush-mounting boxes Ø67 mm
Equipped with automatic terminals for flexible or rigid wires (max. 2.5 mm)
Power : min. 7 W / max. 2300 W
IP 20 - IK 04
Dimensions: 49 x 46 x 26 mm
Maximum current when used with illuminated push-buttons : 50 mA

Noiseless

Pack	Cat.Nos	
10	0 491 20	Single pole
10	0 491 21	Single pole with timer Enables energy savings by switching off lighting after a specified period Time delay adjustment from 1 to 60 min. Switch-off pre-warning function (can be disabled)

Signalling auxiliary

Fitted on left-hand side of latching relay (equipped or not with control auxiliary)
Maximum 2 auxiliaries per latching relay
Used to signal the status of the contacts on the associated product

Auxiliary changeover switch

Pack	Cat.Nos	I max.	Voltage	Contact	Number of modules
1	4 124 29	5 A	250 V~	N/C + N/O	0.5

Control auxiliary

Fitted on left-hand side of latching relay
Maximum 1 control auxiliary per latching relay
Compatible with signalling auxiliary Cat.No 4 124 29

Auxiliary device for centralized control

For a centralized control of different latching relays from one single point

Pack	Cat.Nos		Number of modules
1	4 124 33	For latching relays 24 V~ to 48 V~	0.5
1	4 124 34	For latching relays 230 V~	0.5

Auxiliary device for general centralized control

Pack	Cat.Nos		Number of modules
1	4 124 36	For simultanous control of different groups of latching relays, already fitted with auxiliary device for centralised control 230 V~ Cat.No 4 124 34	1

Auxiliary device for maintained contact

Pack	Cat.Nos		Number of modules
1	4 124 37	Allows the control of a latching relay via one maintained contact (i.e. time switches)	0.5

Compensator module

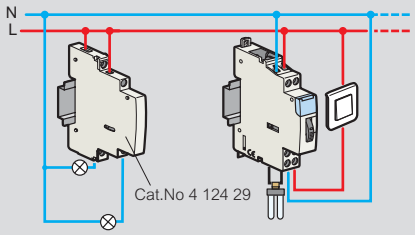
Used to control 230 V~ - 50 Hz pulse operated latching relays via illuminated push-buttons without malfunctions
Connects to the terminals of the pulse operated latching relay coil
Compensation:
- 1 compensator module for a total consumption of 3 to 6 mA (example: 6 to 11 illuminated push-buttons consuming 0.55 mA each)
- 2 compensators modules for a total consumption of 6 to 9 mA (example: 12 to 17 illuminated push-buttons with consuming 0.5 mA each)

Pack	Cat.Nos		Number of modules
1	4 124 39	Impedance compensator for 230 V~ pulse operated latching relays	1

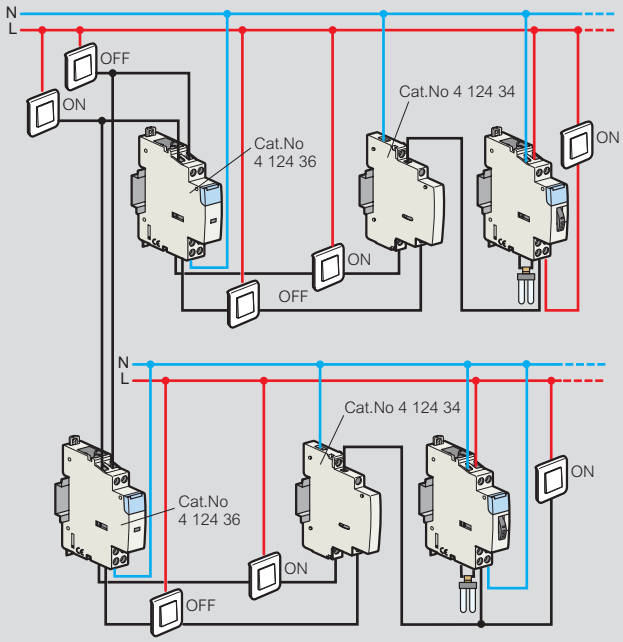
Pulse operated latching relays

Schemas

Signalling with auxiliary Cat.No 4 124 29

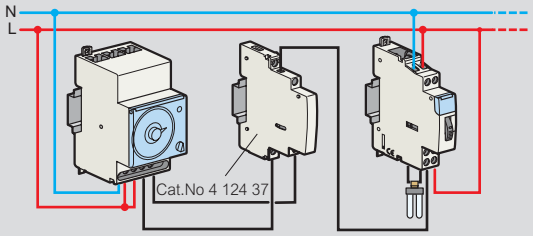


Centralized control at one point using auxiliary devices Cat.Nos 4 124 34 and 4 124 36



Use only non illuminated push-buttons

Control via maintained contact using auxiliary device Cat.No 4 124 37 and time switch



Technical characteristics

Power consumption

Cat.Nos	4 124 00 4 124 01	4 124 04	4 124 05 4 124 10	4 124 14	4 124 11	4 124 08 4 124 12	4 124 16
Control voltage	230 V∿	12 V∿	24 V∿	24 V∿	48 V∿	230 V∿	230 V∿
Nominal current	16 A	16 A	16 A	16 A	16 A	16 A	16 A
Connection	1 N/O	1 N/O	1 N/O 2 N/O	4 N/O	2 N/O	1 N/O 2 N/O	4 N/O
Number of modules	1	1	1	1	1	1	2
Holding	-	670 mA	280 mA	570 mA	170 mA	30 mA	50 mA
Inrush	-	2500 mA	1200 mA	2500 mA	700 mA	130 mA	250 mA

Connection cross section mm²

Type of conductors	Cross section
Rigid	1 x 6 mm² or 2 x 2.5 mm²
Flexible	1 x 6 mm² or 2 x 2.5 mm²
Flexible with single ferrule	6 mm²
Flexible with double ferrule	2 x 4 mm²

Cross reference list old range/new range

Old range Cat.No	New range Cat.No	Designation
041 60	4 124 04	16 A - 12 V - 1 N/O
041 61	4 124 05	16 A - 24 V - 1 N/O
041 62	4 124 08	16 A - 230 V - 1 N/O
041 65	4 124 10	16 A - 24 V - 2 N/O
041 66	4 124 11	16 A - 48 V - 2 N/O
041 68	4 124 12	16 A - 230 V - 2 N/O
041 71	4 124 16	16 A - 230 V - 4 N/O
041 85	4 124 29	Auxiliary changeover switch
041 86	4 124 33	Auxiliary devices for centralized control 24 V∿ - 48 V∿
041 87	4 124 34	Auxiliary devices for centralized control 230 V∿
041 89	4 124 39	Compensation module
041 88	4 124 36	Auxiliary device for general centralized control
041 84	4 124 37	Auxiliary device for maintained contact

Programmable time switches

with digital display


0 037 05


4 126 31


4 126 30


0 047 70

Dimensions **see e-catalogue**

For switching an electric circuit (lighting, heating) ON or OFF at selected times during a pre-programmed time period
Temporary (automatic return) or permanent (forced switching ON or OFF) override on output

Standard - daily or weekly programme with 6 years clock working reserve

Compatible with alternative renewable energy systems such us photovoltaic panels
Automatic summer/winter changeover
Clock precision: ± 1 sec per day
Minimum programme setting: 1 min
28 programmes

Pack	Cat.Nos		Number of modules
		Power supply 120/230 V∿ - 50/60 Hz	
1	0 037 05	1 output 16 A - 250 V∿ μ cos φ = 1 per 1 inverter contact Low consumption: 0.1 W	1

Multiple functions - daily or weekly programme with 6 years clock working reserve

Programme settings: on daily or weekly basis
15 languages
A programme consists of a on and off time and their assignement to certain days
Option to suspend the programme for a specific period to set-up with start and date
Minimum programme setting: 1 s.
High precision clock: ± 0.1 sec per day
Particularly suited to irregular cycles:
- security installations (access point, alarms, etc.),
- industrial installations (pump stations, etc.)
Programmed directly on keypad, or using program transfer key Cat.No 4 128 72
Additional functions including random (irregular cycles), hour counters

Pack	Cat.Nos		Number of modules
		Power supply 230 V∿ - 50/60 Hz	
1	4 126 31	1 output 16 A - 250 V∿ 56 programmes μ cos φ = 1 per 1 inverter contact 84 impulses max.	2
1	4 126 41	2 output 16 A - 250 V∿ 2 x 28 programmes μ cos φ = 1 per 2 inverters contacts	2
		Power supply 120 V∿ - 50/60 Hz	
1	4 126 32	1 output 16 A - 250 V∿ 56 programmes μ cos φ = 1 per 1 inverter contact 84 impulses max.	2
		Power supply 24 V∿ - 50/60 Hz	
1	4 126 33	1 output 16 A - 24 V∿ 56 programmes μ cos φ = 1 per 1 inverter contact 84 impulses max.	2
		Programming transfer key	
1	4 128 72	Can be used to store programme settings made: - Directly on a multifunction and multi-programme time switch Cat.Nos 4 126 31/33/41 (loading on device) - with the programming software installed on a PC running Windows (loading on data loader)	

Multiple functions annual program

Pack	Cat.Nos		Number of modules
		Annual programme High precision clock: ± 0.2 sec per day For programming periods throughout the year 28 programmes per channel possible: - weekly / astronomical programmes - yearly programmes - exceptional programmes Manual override (switch on and off) for every channel on the front of the switch Programmed directly on keypad, or using programme transfer key supplied	
1	4 126 30	2 outputs - 230 V∿ - 50/60 Hz	2
1	0 047 70	4 outputs - 120/230 V∿ - 50/60 Hz	6
		Battery	
1	0 047 82	Working reserve 5 years for Cat.No 0 047 70	

Programming software

Pack	Cat.Nos		
1	4 128 73	Can be used to create, save and transfer program settings for multifunction and multi-program time switches, Cat.Nos 0 047 70, 4 126 31/32/33/41 and 4 126 54 Data is transferred to the program transfer key Cat.No 4 128 72, using the data loader connected to the USB port of the PC Kit comprising software on CD-ROM, data loader and transfer key Windows Vista compatible	

For outdoor illuminations

Astronomical
For autonomous control of outdoor illuminations
Automatic programming: simply initialise the products for the location with no need to install a photoelectric cell
Programmed directly on keypad, or using programme transfer key Cat.No 4 128 27
High precision clock: ± 0.2 sec per day

Pack	Cat.Nos		Number of modules
		Power supply 230 V∿ - 50/60 Hz	
1	4 126 54	1 output 16 A - 250 V∿ 28 programmes	2
1	4 126 57	2 output 16 A - 250 V∿ 2 x 14 programmes	2

Programmable time switches

with analogue dial

4 127 90

4 127 95

Dimensions **see e-catalogue**

Programmed via captive segment
1-module device: min. 1 segment
3-module device: min. 2 segments
Power supply: 230 V∿ - 50/60 Hz
3-position override switch "ON-AUTO-OFF" on front panel
Manual changeover to summer/winter time
1 outlet 16 A - 250 V∿ - μ cos φ = 1

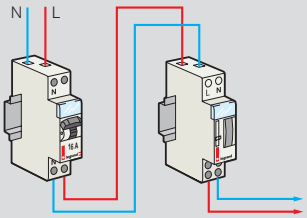
Pack	Cat.Nos	Daily programme	Number of modules
		1 segment = 15 minutes Accuracy: ± 5 minutes	
		Vertical dial Minimum switching time: 15 minutes N/O contact	
1	4 127 80	Without working reserve	1
1	4 127 90	With 100 h working reserve	1
		Horizontal dial Minimum switching time: 15 minutes Changeover switch	
1	4 128 12	Without working reserve	3
1	4 128 13	With 100 h working reserve	3
		Weekly programme	
		1 segment = 2 hours Accuracy: ± 30 minutes	
		Vertical dial Minimum switching time: 2 hours N/O contact	
1	4 127 94	With 100 h working reserve	1
		Horizontal dial Minimum switching time: 4 hours Changeover switch	
1	4 127 95	With 100 h working reserve	3

Programmable time switches

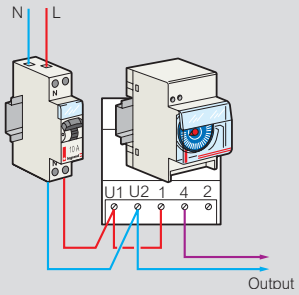
with analogue and digital dial

Diagrams

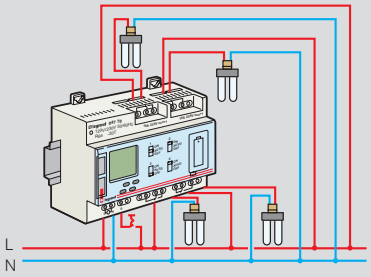
Cat.Nos 4 127 80/90/94



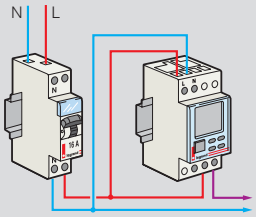
Cat.Nos 4 128 12/13/95



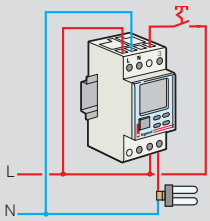
Cat.No 0 047 70



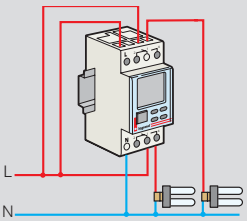
Cat.Nos 4 126 31/32/33



Cat.No 4 126 54



Cat.No 4 126 57



Output closing and breaking times are calculated based on the date, the actual time when the device was switched and on geographical coordinates of the actual location

Technical characteristics

Cat.Nos	Prog. time	Min. programme settings	Working reserve	Summer/ winter time	Outputs 16 A	Nb of prog.	Nb of modules
0 037 05	7 d	1 min	6 years	auto	1	28	1
4 126 31	24 h/7 d	1 s	6 years	auto	1	56	2
4 126 32	24 h/7 d	1 s	6 years	auto	1	56	2
4 126 33	24 h/7 d	1 s	6 years	auto	1	56	2
4 126 41	24 h/7 d	1 s	6 years	auto	2	2 x 28	2

Cat.Nos	Programme	Segment	Min. switching time	Working reserve	16 A output via contact		Nb of modules
					N/O	Chang. S.	
4 128 12	24 h	15 min	30 min	without	-	1	3
4 128 13	24 h	15 min	30 min	100 h	-	1	3
4 127 80	24 h	15 min	15 min	without	1	-	1
4 127 90	24 h	15 min	15 min	100 h	1	-	1
4 127 94	7 d	2 h	2 h	100 h	1	-	1
4 127 95	7 d	2 h	4 h	100 h	-	1	3

0 037 05

Space for supply busbar

0 047 04

Dimensions **see e-catalogue**

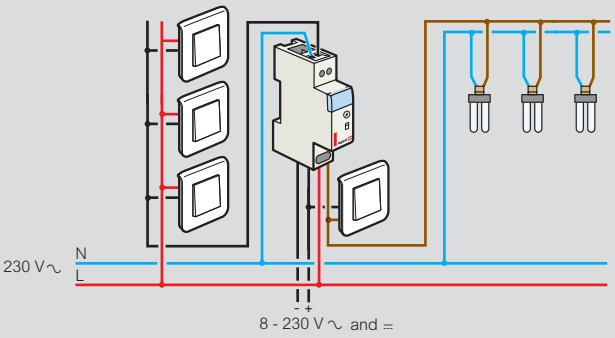
Designed for supply busbar compatibility
Power supply: 230 V~ - 50/60 Hz
Switches a lighting circuit for a specific time
Self-protection in the event of blocked pushbutton

Pack	Cat.Nos	Time-lag switch	Numbers of modules
10	4 126 02	Resettable 230 V~ - 50/60 Hz Timing adjustable from 0.5 sec to 10 min Manual override contact Output 16 A - 250 V~ - μ cos φ = 1 2000 W incandescent/halogen 2000 W halogen - 230 V~ 1000 VA fluo - series compensated 120 VA fluo - parallel compensated 14 μF 100 VA compact fluorescent 1000 W energy saving lamp automatic 3-wire or 4-wire connection	1
10	0 047 04	**Multi-function time-lag switch** Resettable 230 V~ - 50/60 Hz Timing adjustable from 0.5 sec to 12 min Operation with 3 or 4 wires a utomatically recognised by the time-lag switch - Inputs for separate control 8-230 V (presence detection, lighting control by door entry system etc.) - Switch-off pre-warning function, display of time-lag end - Long duration function (1 hour) and manual switch-off Output 16 A - 250 V~ - μ cos φ = 1 3680 W incandescent/halogen 2000 W halogen 230 V~ 1000 VA fluo - parallel compensated ≤ 100 μF 2000 VA compact fluorescent 500 W halogen lamp + ferromagnetic transformer 2000 W halogen lamp + electronic transformer - Specially suited to energy saving lamps 1000 W energy saving lamp	Numbers of modules 1

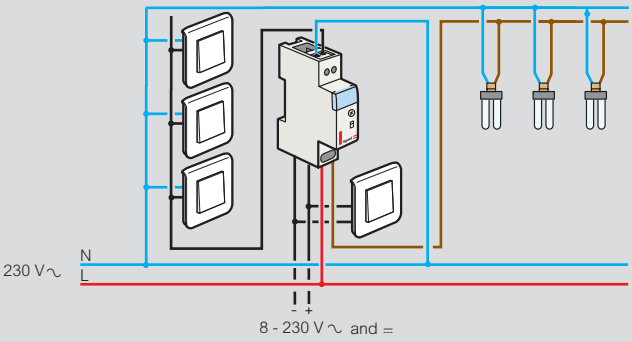
Pack	Cat.Nos	Automatic staircase time-lag switch for wall mounting 230 V - 50 Hz	Type of delay adjustable	Type
1	0 497 83	Switches a lighting circuit during a determined period Controlled by illuminated push-button 50 mA max 3 wire connection Output : 1 contact Contact rating 10 A - 250 V~ - cos φ = 1	Electronic 0.5 to 10 min.	Resettable

Multi-function time-lag switch

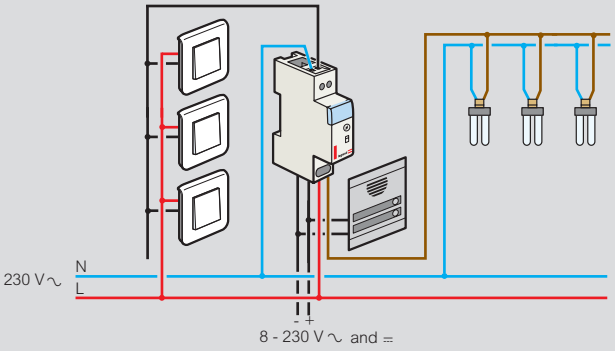
4-wire



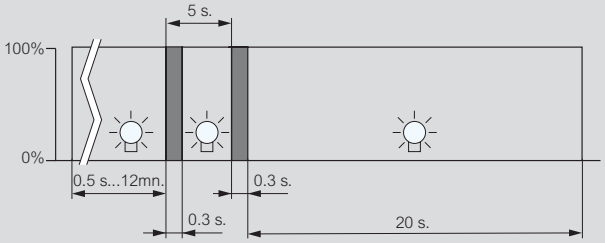
3-wire



Multi-function time-lag switch: lighting control by door entry system



Switch-off pre-warning function



For fluorescent and energy saving lamps the switch-off period is longer than 0.3 s, because of re-starting time required by the lamps

Light sensitive switches

4 126 23

0 037 21

Dimensions **see e-catalogue**

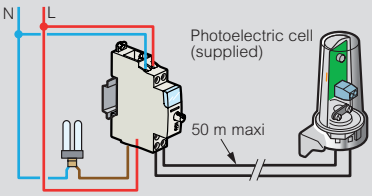
Can be used to switch a lighting circuit "ON" and "OFF" based on light conditions (nightfall, daybreak)
Supplied with photoelectric cell housed in Plexo weatherproof box
Power supply: 230 V~ - 50/60 Hz

Pack	Cat.Nos	**Standard**
1	4 126 23	Output 16 A - 250 V~ - μ cos φ = 1 2000 W incandescent 2000 W series compensated fluorescent 1000 W parallel compensated fluorescent 70 µF 1000 W energy-saving bulb 2000 W halogen bulb + ferromagnetic transformer 2000 W halogen bulb + electronic transformer Automatic timer response Adjustable from 1 to 100 000 lux Number of modules: 1 Supplied with photoelectric cell Cat.No. 4 128 58
1	4 128 58	Replacement photoelectric cell for use with standard light sensitive switch Cat.No. 4 126 23 - IP 55 - IK07

Pack	Cat.Nos	**Programmable with weekly time switch**	Numbers of modules
1	0 037 21	Output 10 A - 250 V~ - μ cos φ = 1 1000 W incandescent 2000 VA fluo serie compensated Timer response: 60 sec Adjustable from 2 to 60000 lux 8 possible programmes (off periods during the night)	2

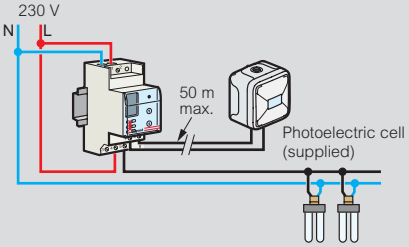
Standard light sensitive switch (Cat.No 4 126 23)

Switch "ON" and "OFF" defined by a light level threshold



Programmable light sensitive switch (Cat.No 0 037 21)

Controls lighting according to the time and light level
Minimum switching interval: 1 minute
Working reserve: 100 hrs
Manual switch: override/programme/stop
Automatic changeover to summer/winter time
Temporary override with automatic return to programme



EMDX³ electrical energy meters

rail mounting

0 046 70

0 046 74

Technical characteristics **p. 61**

Measure the electricity consumed by a single-phase or three-phase circuit downstream of the electricity distribution metering
Display electricity consumption in kWh, as well as other values such as current, active energy, reactive energy and power (depending on the catalogue number)
Conform to standards IEC 62053-21/23, IEC 62052-11 and IEC 61010-1
MID compliance ensures accuracy of the metering with a view to recharging for the electricity used

Pack	Cat.Nos		
	Non-MID	MID compliant	**Single-phase meters**
			Direct connection
1	0 046 70		32 A - 1 module Pulse output
1	0 046 81		36 A - 2 modules Pulse output
1	0 046 72	0 046 78	63 A - 2 modules Pulse output
1	0 046 77	0 046 79	63 A - 2 modules RS 485 output
	Non-MID	MID compliant	**Three-phase meters**
			Direct connection
1	0 046 73	0 046 82	63 A - 4 modules Pulse output
1	0 046 80	0 046 83	63 A - 4 modules RS 485 output
			Connection with CT
1	0 046 74	0 046 85	5 A - 4 modules pulse output
1	0 046 84	0 046 86	5 A - 4 modules RS 485 and pulse output
			Concentrator
1	0 046 87		For collecting and transmitting measurements taken by 7 universal pulse electricity meters Also collects data from other meters (gas meters, water meters, etc.) RS485 output 4 modules

EMDX³ multi-function measuring units

rail mounting

0 046 76

Technical characteristics **p. 61**

Conform to standards:
- IEC 61557-12
- IEC 62053-22 class 0.5 S
- IEC 62053-23 class 2

Pack	Cat.Nos	**EMDX³ modular**
		For mounting on rail Width: 4 modules • LCD display • Measurement of currents, voltages, active, reactive and apparent power and internal temperature • Dual tariff metering: - Active energy consumed - Reactive energy consumed - Operating time - Power factor • THD voltages and currents up to order 51 • Programmable alarms on all functions • Outputs for controlling wiring devices, alarm feedback and pulse feedback
		EMDX³ pulse unit
1	0 046 75	Data transmission via pulses
		EMDX³ RS 485 unit
1	0 046 76	Data transmission via RS 485 communication interface and pulses

EMDX³ multi-function measuring units

for mounting on door or solid faceplate

0 146 68

0 146 69

0 146 73

Current transformers (CT) **p. 60**

Technical characteristics **p. 61**

Conform to standards:
- IEC 61557-12
- IEC 62053-22 class 0.5 S
- IEC 62053-23 class 2

Pack	Cat.Nos	EMDX³ - Access
		Multi-function measuring unit
1	0 146 68	For mounting on door or solid faceplate Dimensions: 96 x 96 x 60 mm • LCD display • Measurement of currents, voltages, active, reactive and apparent power, internal temperature and power factor • Metering: - Active energy consumed or produced - Reactive energy consumed or produced - Operating time - Pulses • THD voltages and currents up to order 51 • Programmable alarms on all functions Can take 2 optional modules
		Modules for EMDX³ - Access multi-function measuring unit
1	0 146 71	RS485 communication module MODBUS link
1	0 146 72	1-output module Can be assigned to pulse feedback, alarm feedback or control of wiring devices
		EMDX³ - Premium
		Multi-function measuring units
1	0 146 69	For mounting on door or solid faceplate Dimensions: 96 x 96 x 60 mm • LCD display • Measurement of currents, voltages, active, reactive and apparent power, internal temperature and power factor • Metering: - Active energy consumed or produced - Reactive energy consumed or produced - Operating time - Pulses • Individual harmonics up to order 63 • Programmable alarms on all functions Can take 4 optional modules

Pack	Cat.Nos	EMDX³ - Premium (continued)
		Modules for EMDX³ - Premium multi-function measuring units
1	0 146 73	RS 485 communication module MODBUS link
1	0 146 74	Storage module Storage of active and reactive power over 62 days, the last 10 alarms and the average voltage and frequency values over 60 days max.
1	0 146 75	Module with 2 inputs/2 outputs Up to 3 modules, i.e. 6 inputs/6 outputs, can be installed Outputs can be assigned to monitoring mode, remote control or timed remote control
1	0 146 77	Temperature module Indication of the internal temperature and possibility of connecting 3 sensors for measuring the external temperature
		Communication and supervision
		Web servers Enable remote viewing, via a web browser on PCs, smartphones, web viewers, tablet computers such as iPads, Archos, etc., of values collected on electricity meters and multi-function measuring units
1	0 261 78	For 32 metering points (meters or multi-function measuring units)
1	0 261 79	For an unlimited number of metering points (meters or multi-function measuring units)
		Legrand software dedicated to measurement For displaying the values collected from electricity meters or multi-function measuring units on a PC connected to the network
1	0 261 88	For 32 metering points (supplied on CD)
1	0 261 89	For an unlimited number of metering points (supplied on CD)
		IP converter
1	0 046 88	For RS485/Ethernet conversion for connecting electricity meters and multi-function measuring units to an IP network

Current transformers CT

0 047 79

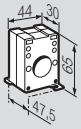
Pack	Cat.Nos	Single-phase current transformers (CT)	
		Used with ammeters, electricity meters or multi-function measuring units Provide a 0 to 5 A current at the secondary, proportional to the primary current For fixing on plates, EN 60715 ⊔ rail Cat.Nos 0 046 31/34/36, or bars Secondary connected by terminals or lugs Precision class 1%	
		For 16 x 12.5 mm bar and Ø21 mm cable	
		Transformation ratio	Output (VA)
1	0 046 31	50/5	1.25
1	0 046 34	100/5	2.5
1	0 046 36	200/5	5.5
		For 20.5 x 12.5 and 30 x 10.5 mm bar and Ø23 mm cable	
1	0 047 75	300/5	11
		For 40.5 x 10.5 mm bar and Ø35 mm cable	
1	0 046 38	400/5	12
		For 65 x 32 mm bar	
1	0 047 76	600/5	12
1	0 047 77	800/5	15
1	0 047 78	1000/5	20
		For 84 x 34 mm bar	
1	0 047 79	1250/5	15
		For 127 x 38 mm bar	
1	0 046 45	1500/5	15
1	0 046 46	2000/5	20
		For 127 x 54 mm bar	
1	0 047 80	2500/5	50
1	0 046 48	4000/5	50
		Three-phase current transformers (CT)	
		Used with ammeters, electricity meters or multi-function measuring units Provide a 0 to 5 A current at the secondary, proportional to the primary current For fixing directly on bars Secondary connected by terminals or lugs Precision class 1%	
		For three 20.5 x 5.5 mm bars	
		Transformation ratio	Output (VA)
1	0 046 98	250/5	3
		For three 30.5 x 5.5 mm bars	
1	0 046 99	400/5	4

Current transformers (CT)

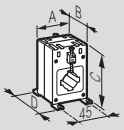
Technical characteristics
Degree of protection: IP 20
Operating frequency: 50/60 Hz

Dimensions

• Single-phase CTs
Cat.Nos 0 046 31/34/36 for 16 x 12.5 mm bar and Ø21 mm cable
Fixing on EN 60715 rail

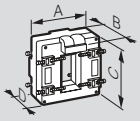


Cat.No 0 047 75 for 20.5 x 12.5 and 30 x 10.5 mm bar and Ø23 mm cable
Cat.No 0 046 38 for 40.5 x 10.5 mm bar and Ø35 mm cable
Fixing on EN 60715 rail or on plate



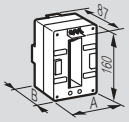
Cat.Nos	A	B	C	D	Ø	Fixing centres on plate
0 047 75	56	42	94	50	23	50 x 45
0 046 38	77	46	107	54	35	54 x 45

Cat.Nos 0 047 76/77/78 for 65 x 32 mm bar
Cat.No 0 047 79 for 84 x 34 mm bar
Fixing on bar



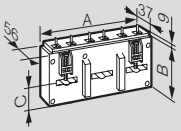
Cat.Nos	A	B	C	D
0 047 76/77/78	90	90	94	40
0 047 79	96	87	116	58

Cat.Nos 0 046 45/46 for 127 x 38 mm bar
Cat.Nos 0 047 80 and 0 046 48 for 127 x 54 mm bar
Fixing on bar



Cat.Nos	A	B
0 046 45/46	99	58
0 046 48/0 047 80	125	40

• Three-phase CT
Cat.No 0 046 98 for three 20.5 x 5.5 mm bars
Cat.No 0 046 99 for three 30.5 x 5.5 mm bars
Fixing on bar



Cat.Nos	A	B	C
0 046 98	107	58.5	25
0 046 99	135	66.5	30

Determination of the max. distance between CT and meter

Cat.Nos	Max. power of CT	Meter consump. (W)	Max. loss in capac. (VA)	Max. distance bet. CT & meter (m)		
				Wiring 2.5 mm²	Wiring 4 mm²	Wiring 6 mm²
0 046 31	1.25	0.5	0.75	1.8	2.7	3.9
0 046 34	2.5	0.5	2	4.9	7.1	10.4
0 046 98	3	0.5	2.5	6.1	8.9	13
0 046 99	4	0.5	3.5	8.5	12.4	18.1
0 046 36	5.5	0.5	5	12.2	17.8	25.9
0 047 75	11	0.5	10.5	25.5	37.3	54.4
0 046 38 0 047 76	12	0.5	11.5	28	40.8	59.6
0 047 77/79 0 046 45	15	0.5	14.5	35.3	51.5	75.2
0 046 46 0 047 78	20	0.5	19.5	47.4	69.3	101.1
0 047 80 0 046 48	50	0.5	49.5	120.4	175.8	256.7

EMDX³ electrical energy meters

rail mounting

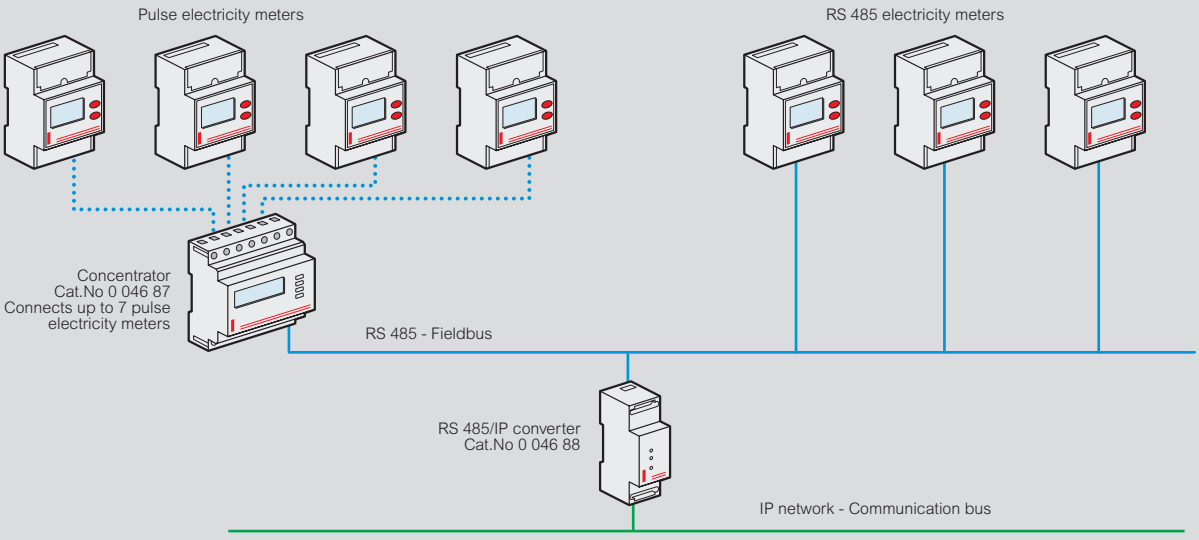
Technical characteristics

Single-phase meters Cat.Nos 0 046 70/72/77/78/79/81
LCD display: 7 digits
Resolution: 0.1 kWh
Maximum indication: 99999.9 kWh
Metrological LED: 1 Wh/pulse (Cat.No 0 046 70 : 0.5 Wh/pulse)
Accuracy (EN 62053-21): class 1
Reference voltage Un: 230 V-240 V
Reference frequency: 50-60 Hz
Pulse output: 1 pulse/10 Wh
(Cat.No 046 70: 2 pulse/Wh)

Three-phase meters Cat.Nos 0 046 73/74/80/82/83/84/85/86
LCD display: 8 digits
Resolution: 0.01 kWh(1)
Maximum indication: 99999.99 kWh(1)
Metrological LED: 0.1 Wh/pulse or 1 Wh/pulse
Active energy accuracy (EN 62053-21): class 1
Reactive energy accuracy (EN 62053-23): class 2
Reference voltage Un:
- Single-phase: 230-240 V
- Three-phase: 230(400)-240(415) V
Operating limit range (EN 62053-21, EN 62053-23):
- Single-phase: 110 to 254 V
- Three-phase: 110(190) to 254(440) V
Pulse output: 1 pulse/10 Wh

Cat.Nos		0 046 70	0 046 81	0 046 72	0 046 77	0 046 78	0 046 79	0 046 73	0 046 80	0 046 82	0 046 83	0 046 74	0 046 84	0 046 85	0 046 86
Number of modules		1	2	2	2	2	2	4	4	4	4	4	4	4	4
Connection	Direct	●	●	●	●	●	●	●	●	●	●				
	Via a current transformer											●	●	●	●
	Single-phase	●	●	●	●	●	●					●	●		
	Three-phase							●	●	●	●	●	●	●	●
Max. current		32 A	36 A	63 A	63 A	63 A	63 A	63 A	63 A	63 A	63 A	5 A (CT)	5 A (CT)	5 A (CT)	5 A (CT)
Metering and measurement	Total active energy	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Total reactive energy							●	●	●	●	●	●	●	●
	Partial active energy (reset)		●	●	●	●	●	●	●	●	●	●	●	●	●
	Partial reactive energy (reset)							●	●	●	●	●	●	●	●
	Active power			●	●	●	●	●	●	●	●	●	●	●	●
	Reactive power							●	●	●	●	●	●	●	●
	Apparent power							●	●	●	●	●	●	●	●
	Current			●	●	●	●	●	●	●	●	●	●	●	●
	Voltage			●	●	●	●	●	●	●	●	●	●	●	●
	Frequency			●	●			●	●	●	●	●	●	●	●
	Power factor			●	●			●	●	●	●	●	●	●	●
	Time-of-use			●	●										
	Average active power							●	●	●	●	●	●	●	●
	Max. average active power value							●	●	●	●	●	●	●	●
	Dual tariff							●							
Communication	Pulse output	●	●	●		●		●		●		●	●	●	●
	RS 485 interface				●		●		●		●		●		●
MID compliant						●	●			●	●			●	●
Operating conditions	Reference temperature	23 °C ± 2 °C													
	Operating temperature	-20 to +55 °C	-10 to +45 °C					-5 to +55 °C							
	Storage temperature	-40 to +70 °C	-25 to +70 °C					-25 to +70 °C							
	Consumption	≤ 8 VA						≤ 4 VA per phase			≤ 1 VA per phase				
	Heat dissipation	≤ 6.5 W						≤ 6 W			≤ 4 W				

Interfacing with IP communication network



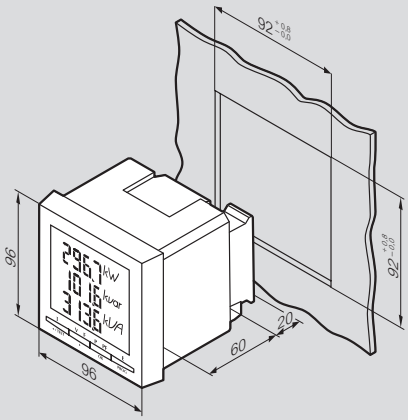
1: For direct connection meters
If connected via transformers, the resolution and maximum indication depend on the transformation ratios of these transformers

EMDX³ multi-function measuring units

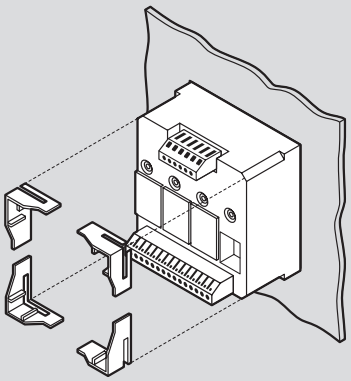
Technical characteristics

Cat.Nos			0 046 75/76	0 146 68	0 146 69
Connection	Current measurement terminals		4 mm²	6 mm²	6 mm²
	Other terminals		2.5 mm²	2.5 mm²	2.5 mm²
Protection index	Front cover		IP 51	IP 52	IP 52
	Casing		IP 20	IP 30	IP 30
Weight			205/215 g	400 g	400 g
Display			Backlit LCD	Backlit LCD	Backlit LCD
Measurements			3P+N, 3P, 2P, 1P+N	3P+N, 3P, 2P, 1P+N	3P+N, 3P, 2P, 1P+N
Voltage measurement	Direct	Phase/phase	50 to 520 V~	50 to 500 V~	18 to 700 V~
		Phase/neutral	28 to 300 V~	28 to 289 V~	11 to 404 V~
	From a PT	Primary	-	-	≤ 500 kV
		Secondary	-	-	60, 100, 110, 115, 120, 173, 190 V~
	Permanent overload between phases		760 V~	800 V~	760 V~
	Update period		1 s	1 s	1 s
Current measurement	From a CT	Primary	5 to 9999 A	≤ 9999 A	≤ 9995 A
		Secondary	5 A	5 A	1 or 5 A
	Minimum measurement		5 mA	5 mA	10 mA
	Input consumption		< 0.6 VA	< 0.6 VA	< 0.3 VA
	Display		0 to 9999 A	1 to 11 kA	0 to 11 kA
	Permanent overload		6 A	6 A	10 A
	Intermittent overload		60 A/1 s - 120 A/0.5 s	10 In/1 s	10 In/1 s
	Update period		1 s	1 s	1 s
	Max. CT x PT ratio		-	-	10000000
Power measurement	Total		0 to 9999 kW/kvar/kVA	0 to 11 MW/Mvar/MVA	0 to 8000 MW/Mvar/MVA
	Update period		1 s	1 s	1 s
Frequency measurement	Measurement range		45.0 to 65.0 Hz	45.0 to 65.0 Hz	45.0 to 65.0 Hz
	Update period		1 s	1 s	1 s
Auxiliary power supply	50/60 Hz		200 to 277 V~ ±15%	110 to 400 V~ ±10%	110 to 400 V~ ±10%
	DC		-	120 to 350 V⎓ ±20%	120 to 350 V⎓ ±20%
	Consumption		< 5 VA	< 10 VA	< 10 VA
Operating temperature			-10 °C to +55 °C	-10 °C to +55 °C	-10 °C to +55 °C
Storage temperature			-20 °C to +70 °C	-20 °C to +85 °C	-20 °C to +85 °C

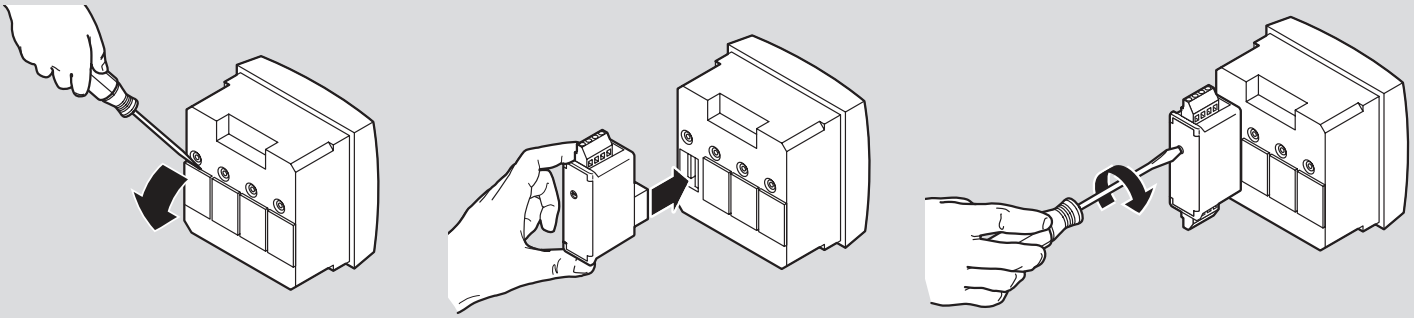
Flush-mounting dimensions Cat.Nos 0 146 68/69



Fixing on door Cat.Nos 0 146 68/69

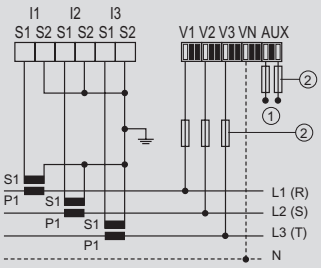


Fitting modules Cat.Nos 0 146 68/69

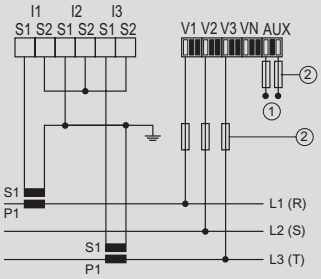


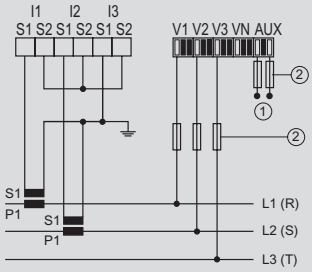
Connection solutions

Unbalanced three-phase network (3 or 4-wire)

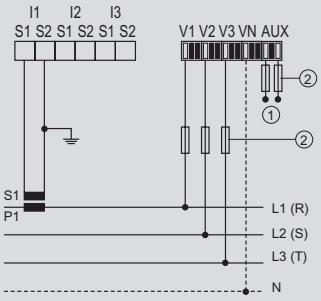


(3-wire)

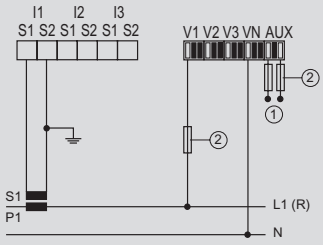




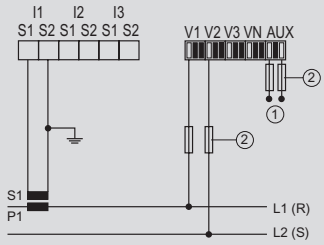
Balanced three-phase network (3 or 4-wire)



Single-phase network (2-wire)

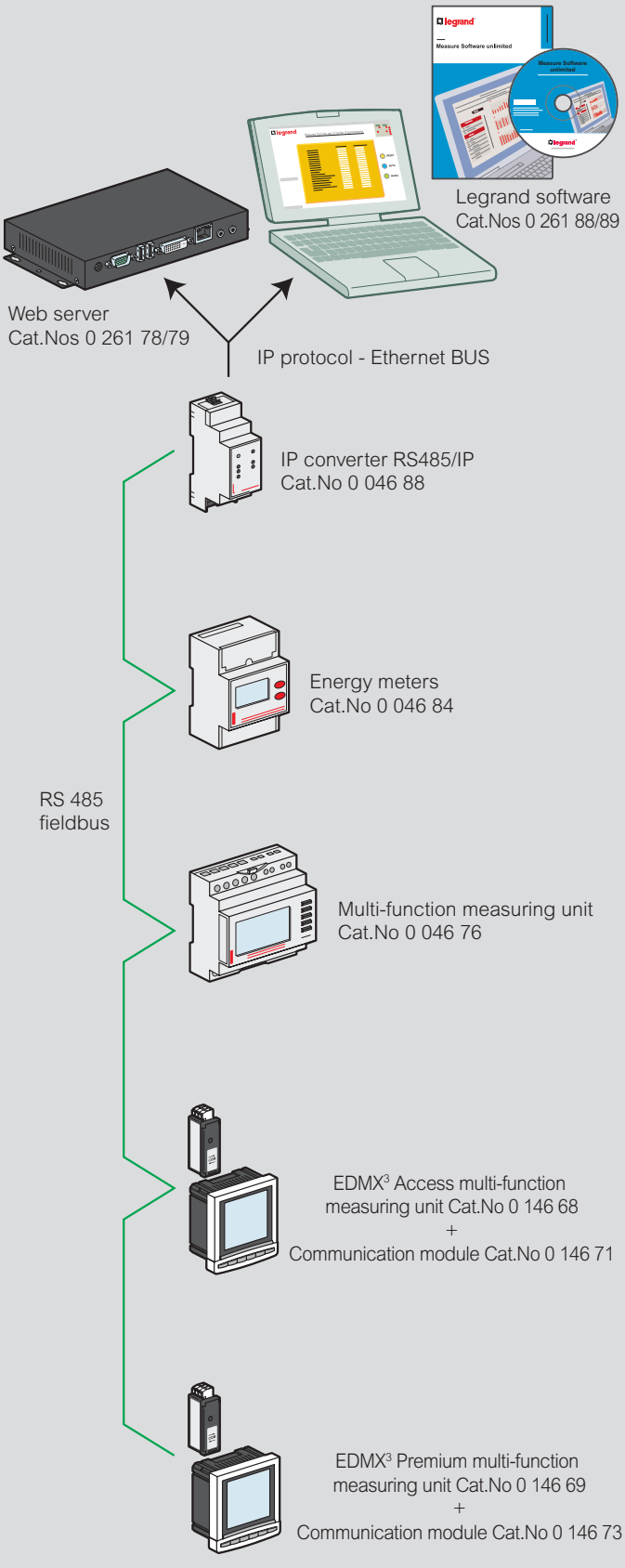


Two-phase network (2-wire)



① Auxiliary power supply: 110 … 400 VAC/120 … 350 VDC
② Fuse: 0.5 A gG/BS 88 2A gG/0.5 A class CC

Wiring example of communication network



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4 124 00		
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4 125 00		
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14	49	1
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27	-	1
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36	-	1
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14	-	1
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