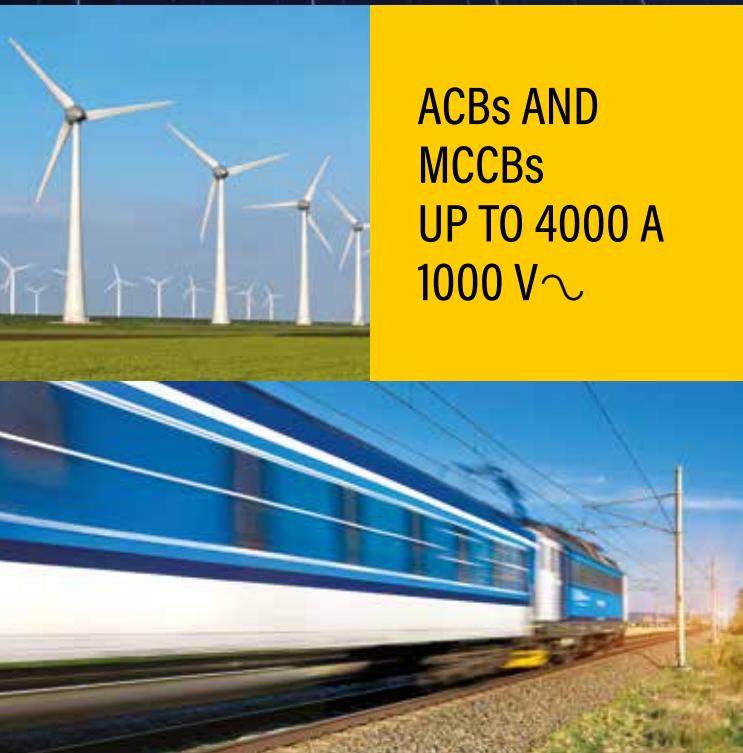


## DMX<sup>3</sup> 4000 AND DPX<sup>3</sup> 250 - 1000 V~

Reliable protection for your  
wind turbine, photovoltaic  
and railway installations

ACBs AND  
MCCBs  
UP TO 4000 A  
1000 V~



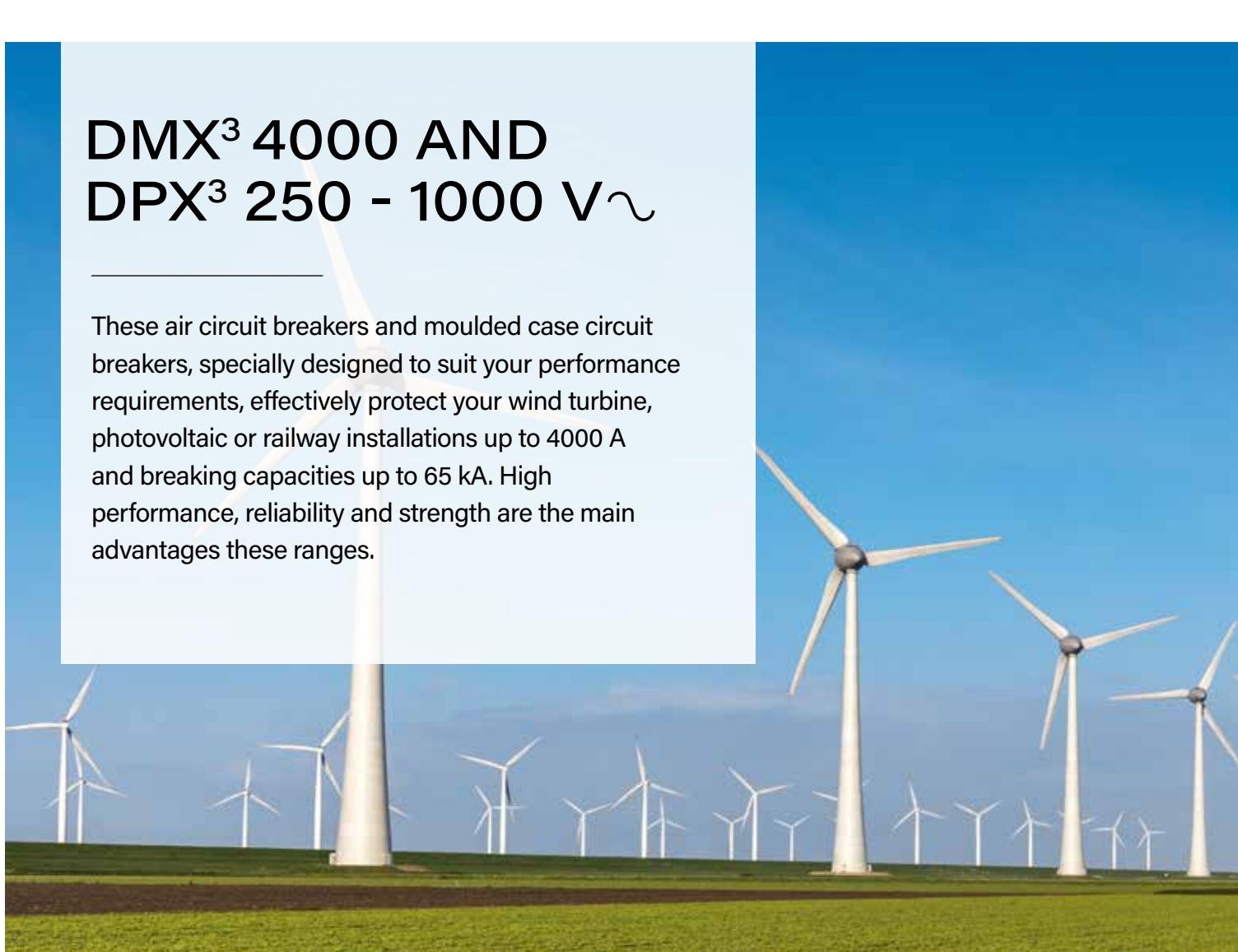
#legrandImprovingLives

 **legrand**<sup>®</sup>

# CONTENTS

## DMX<sup>3</sup> 4000 AND DPX<sup>3</sup> 250 - 1000 V~

These air circuit breakers and moulded case circuit breakers, specially designed to suit your performance requirements, effectively protect your wind turbine, photovoltaic or railway installations up to 4000 A and breaking capacities up to 65 kA. High performance, reliability and strength are the main advantages these ranges.



DMX <sup>3</sup> 4000 - 1000 V~ air circuit breakers	2-13
CX <sup>3</sup> EMS, a universal innovative system for energy management	14-15
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**DMX<sup>3</sup> 4000 - 1000 V~ ACBs**  
3 AND 4-POLE FIXED VERSION



**DMX<sup>3</sup> 4000 - 1000 V $\sim$  ACBs**  
3 AND 4-POLE DRAW-OUT  
VERSION



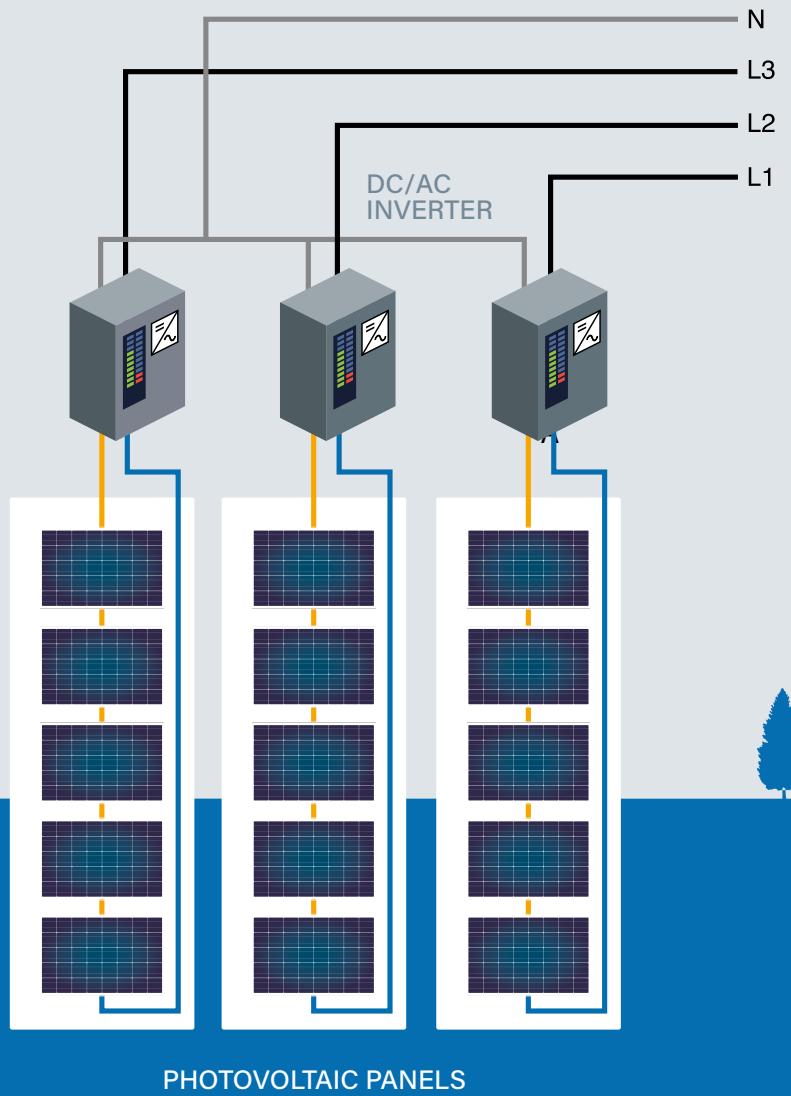
**DPX<sup>3</sup> 250 - 1000 V $\sim$  MCCBs**  
3 AND 4-POLE FIXED VERSION

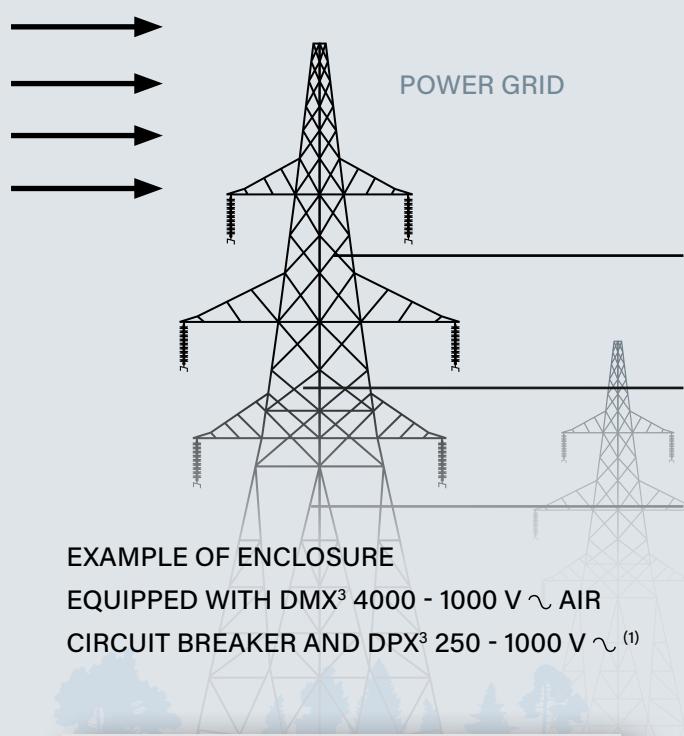
# Dedicated, optimised solutions

## OPERATE AT VOLTAGES OF UP TO 1000 V $\sim$

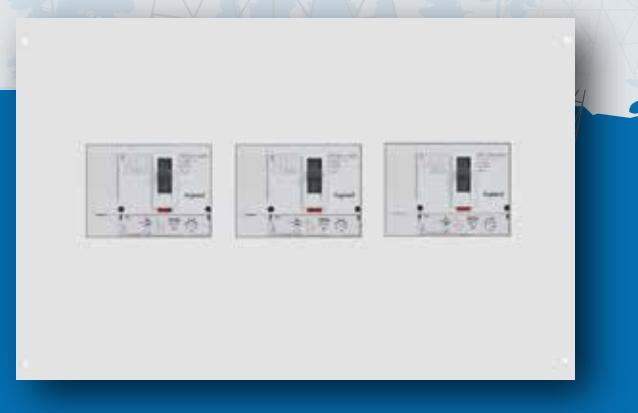
ABCs and MCCBs are used for incoming protection and control in specific wind, photovoltaic and railway sectors that need to operate at voltages of up to 1000 V $\sim$ .

DMX<sup>3</sup> 4000 – 1000 V $\sim$  air circuit breakers DPX<sup>3</sup> 250 - 1000 V $\sim$  MCCBs<sup>(1)</sup> integrate seamlessly into XL<sup>3</sup> DO enclosures to create different configurations according to the needs of the installation.





EXAMPLE OF ENCLOSURE  
EQUIPPED WITH DMX<sup>3</sup> 4000 - 1000 V  $\sim$  AIR  
CIRCUIT BREAKER AND DPX<sup>3</sup> 250 - 1000 V  $\sim$  <sup>(1)</sup>



# High performance, reliability and strength

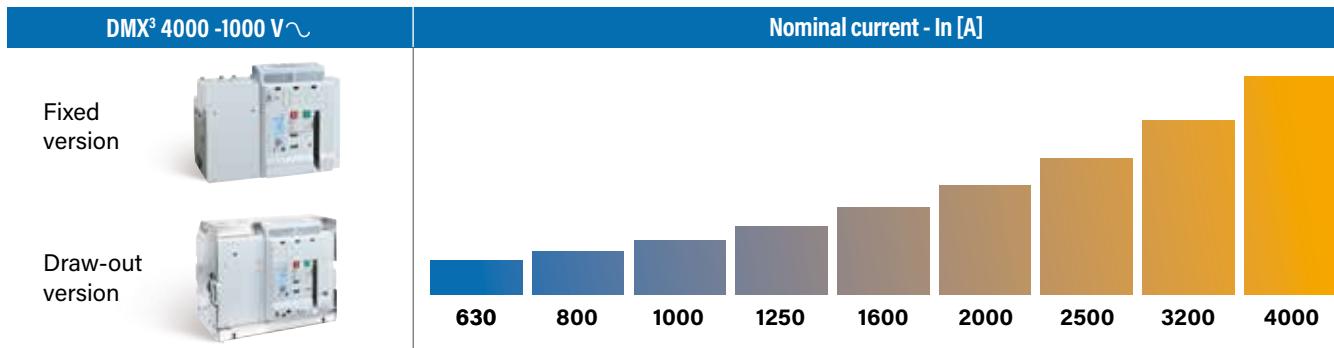
## AVAILABLE IN 3 OR 4-POLE FIXED OR DRAW-OUT VERSIONS

These products are easy to use and to install, and provide effective protection for your installation. They are available with 3 and 4 poles, in fixed or draw-out versions, and come equipped with appropriate protection units depending on the desired performance level. This offer also includes a range of control and signalling auxiliaries and connection accessories for easy integration in any electrical installation, regardless of configuration.



DMX<sup>3</sup> 4000 - 1000 V $\sim$   
CONFORMING TO  
STANDARD IEC 60947-2

RATED OPERATING VOLTAGE Ue	BREAKING CAPACITY Icu (kA)
800 V $\sim$	65 kA
1000 V $\sim$	50 kA



DMX<sup>3</sup> 4000 – 1000 V~ air circuit breakers have been specially designed to ensure excellent performance, including when used at high altitude and in extreme temperature conditions.

When installed at above 2000 m altitude, the air pressure decreases, making it harder for heat to be exchanged between the circuit breaker and its environment. Derating must therefore be applied.

Altitude (m)	2000	3000	4000	5000
<b>Nominal current at 40°C In (A)</b>	In	0.98 x In	0.94 x In	0.90 x In
<b>Rated voltage Ue (V)</b>	1000	880	750	690
<b>Insulation voltage Ui (V)</b>	1250	1100	950	850
<b>Impulse withstand voltage (Uimp)</b>	3500	3200	2500	2000



DMX<sup>3</sup> 4000 – 1000 V~ air circuit breakers can be used in ambient temperature conditions between -25°C and +70°C, which is ideal for existing wind and solar power installations. They can also be installed in industrial environments. For temperatures above 40°C, derating must be applied.

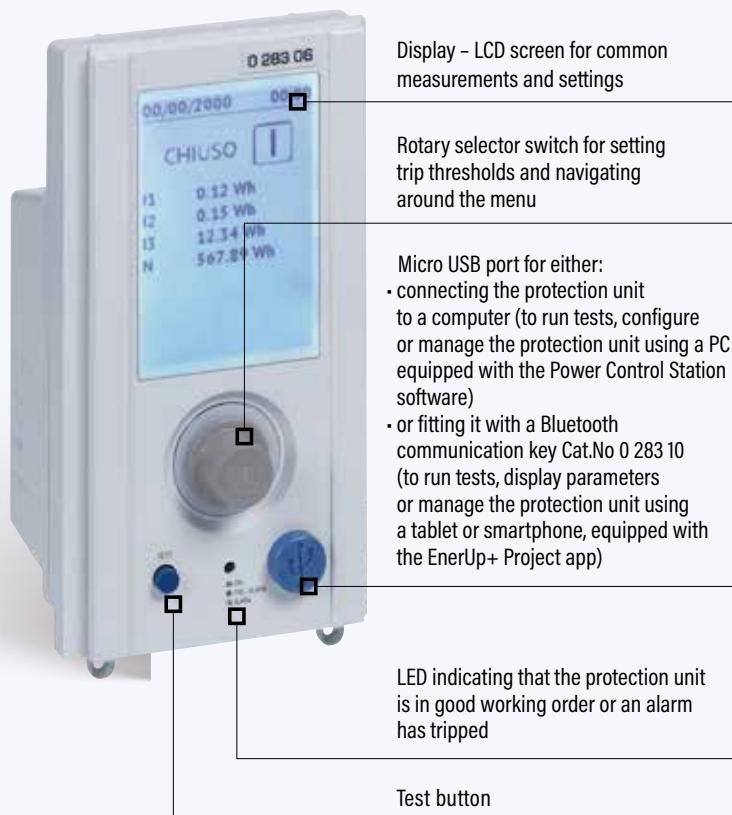
TEMPERATURE															
DMX <sup>3</sup> 4000 -1000 V~ Fixed version								DMX <sup>3</sup> 4000 -1000 V~ Draw-out version							
≤ 40°C		50°C		60°C		70°C		≤ 40°C		50°C		60°C		70°C	
I <sub>max</sub>	I <sub>r/In</sub>	I <sub>max</sub>	I <sub>r/In</sub>	I <sub>max</sub>	I <sub>r/In</sub>	I <sub>max</sub>	I <sub>r/In</sub>	I <sub>max</sub>	I <sub>r/In</sub>	I <sub>max</sub>	I <sub>r/In</sub>	I <sub>max</sub>	I <sub>r/In</sub>	I <sub>max</sub>	I <sub>r/In</sub>
630	1	630	1	630	1	630	1	630	1	630	1	630	1	630	1
800	1	800	1	800	1	800	1	800	1	800	1	800	1	800	1
1000	1	1000	1	1000	1	1000	1	1000	1	1000	1	1000	1	1000	1
1250	1	1250	1	1250	1	1250	1	1250	1	1250	1	1250	1	1250	1
1600	1	1600	1	1600	1	1600	1	1600	1	1600	1	1600	1	1600	1
2000	1	2000	1	2000	1	2000	1	2000	1	2000	1	2000	1	2000	1
2500	1	2500	1	2500	1	2500	1	2500	1	2500	1	2500	1	2500	1
3200	1	3200	1	3200	1	3040	0.95	3200	1	3200	1	3200	1	2880	0.9
4000	1	3920	0.98	3680	0.92	3120	0.78	4000	1	3760	0.974	3440	0.86	2960	0.74

# Protection units that adapt perfectly to your project

## EFFECTIVE PROTECTION AGAINST ELECTRICAL FAULTS

Besides their easy mounting and connection, strength and good continuity of operation, 2 types of configurable electronic units, with or without integrated measurement function, allow precise adjustment of different limits for current values and time delay. The result is efficient protection against electrical faults and perfect adaptation to each type of installation, while maintaining total discrimination with downstream breakers. The display lets you monitor the measured current values and informs you about fault adjustments and logs (the cause of last trip and maintenance operations).

### MP 4.10/4.10 M electronic protection unit



## THE RANGE

Protection units for DMX<sup>3</sup> 2500, 4000 and 6300 and DMX<sup>3</sup> 4000 - 1000 V ~

## MP 4.10/4.10 M



Without measurement	With measurement
0 283 06	0 283 07

All DMX<sup>3</sup> breakers are factory-equipped with MP 4.10/4.10 M protection units. You just need to select and indicate the 2 catalogue numbers when placing the order (1 for the breaker and 1 for the trip unit).



**LEGRAND  
ADVANTAGE**

MP 4.10/4.10 M protection unit is fitted with batteries so that it can display parameters and back up data if there is a power cut or the circuit breaker is open/not connected. Intuitive use thanks to the LCD display.

# Breaking capacities and rated currents

	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
1000 VAC	50 kA   FIXED/DRAW-OUT								
800 VAC	65 kA   FIXED/DRAW-OUT								

## OVERALL DIMENSIONS AND WEIGHT

Fixed version

		Height	Depth	Width	Weight <sup>(2)</sup>
4000 FRAME 50 / 65 / 100 kA	3P	419 mm	354 mm	408 mm	59 kg
	4P	419 mm	354 mm	538 mm	76 kg



Draw-out version

		Height	Depth	Width	Weight <sup>(3)</sup>
4000 FRAME 50 / 65 / 100 kA	3P	465 mm	433 mm	425 mm	108 kg
	4P	465 mm	433 mm	555 mm	137 kg



## LEGRAND ADVANTAGE

The overall dimensions of the breaker contribute considerably to an efficient use of the space inside the distribution board. The constant depth for all rated currents for the 2500, 4000 and 6300 frames make it easier to configure the enclosures and connect the busbars.

## OTHER ELECTRICAL FEATURES

Rated operational voltage Ue: 690 Vac 50/60 Hz  
 Rated insulation voltage Ui: 1000 Vac 50/60 Hz  
 Rated impulse withstand voltage Uimp: 12 kV  
 Utilisation category: B  
 Ambient temperature: -25°C to +70°C  
 Humidity: +55°C with relative humidity of 95%, conforms to IEC 68-2-30

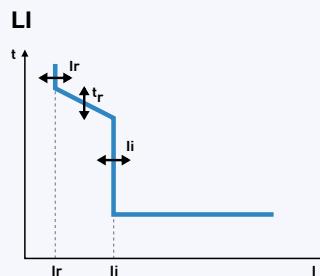
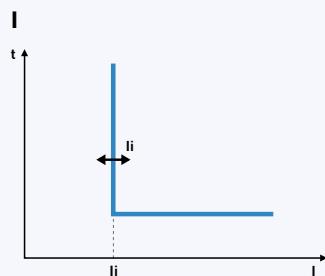
(2) For trip-free switches, please consult us. (3) Including base.

# Configure your protection devices in complete freedom

## NEW FULLY CONFIGURABLE PROTECTION UNITS

The new MP 4.10/4.10 M protection units are fully configurable. They can be used to adapt settings as closely as possible to the requirements of your installation, either by enabling/disabling the different protection devices (currents and tripping times), or by altering the different trip thresholds. The tripping curve is thus fully customised to suit the real-life conditions of each project. Protection units with integrated measurement function can also be used to display voltages, active and reactive powers, frequency, power factor, and also energy, in addition to monitoring currents. Alarms can be programmed on a number of these parameters: max. voltage, min. voltage, voltage unbalance, max. and min. frequency, etc.

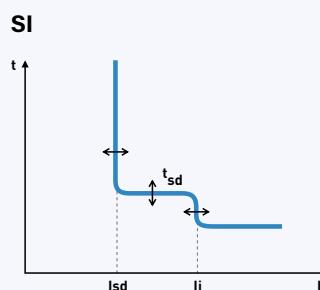
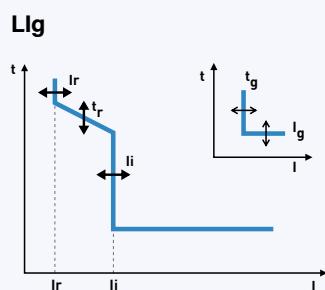
## EXAMPLES OF TRIPPING CURVES



**Ir** Long time delay protection against overloads  
 $I_r$  from 0.2 to  $1 \times I_n$  with steps of 1 A  
 Protection: ON/OFF

**tr** Long delay protection operation time  
 $t_r$  from 40 ms to 30 s (@ $6I_r$ ) with steps of 40 ms  
 Thermal memory: ON/OFF

**Isd** Short time delay protection against short-circuits  
 $I_{sd}$  from 1.5 to  $10 \times I_r$  with steps of 1 A  
 Protection: ON/OFF



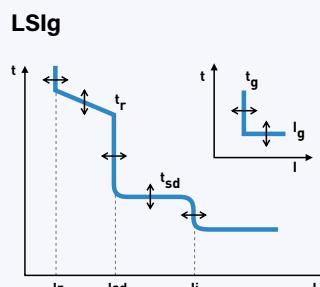
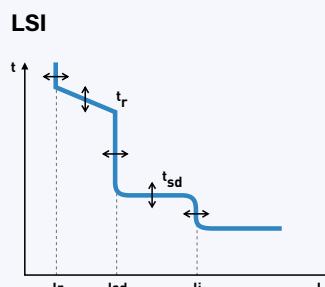
**tsd** Short time delay protection operation time  
 $t_{sd}$  from 40 ms to 1 s with steps of 40 ms  
 (both  $t=k$  and  $I2t=k$ )

**li** Instantaneous protection against very high short-circuits  
 $I_{li}$  from 2 to  $15 \times I_n$  or  $I_{cw}$  with steps of 1 A  
 Protection: ON/OFF

**lg** Earth fault current  
 $I_g$  from 0.2 to  $1 \times I_n$  with steps of 1 A  
 Protection: ON/OFF

**tg** Time delay on earth fault tripping  
 $t_g$  from 80 ms to 1 s with steps of 40 ms  
 (both  $t=k$  and  $I2t=k$ )

**IN** Neutral protection  
 OFF - 50% - 100% - 200%



## MANAGEMENT WITH SOFTWARE AND APP

Protection units can be managed: directly on the protection units (using the rotary selector switch), on a PC pre-equipped with the Power Control Station software or on a tablet or smartphone via the EnerUp+ Project app.

Power Control Station software for PCs or EnerUp+ Project App for smartphone/tablet can be used to exchange data with the protection unit of the DMX<sup>3</sup>.

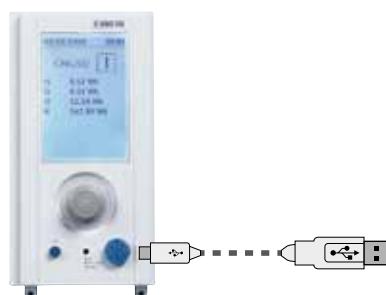
The software or the app can be used to:

- monitor the status of the breaker
- display information (firmware and device versions, alarms, measurements, parameters, fault history, settings)
- configure the different protections <sup>(1)</sup>
- update the firmware of the protection unit <sup>(2)</sup>
- generate reports based on the data stored and read by the protection unit <sup>(1)</sup>
- run diagnostic tests
- upload to the Cloud the data linked to your profile and installation (only with EnerUp + Project App.)

(1) Only with Power Control Station software

(2) Only for Legrand technical assistance via Power Control Station software

## CONFIGURATION ON A PC WITH THE POWER CONTROL STATION SOFTWARE



Any model in the MP 4.10/4.10 M range



### Example of Start menu

This menu displays the values of I<sub>1</sub>, I<sub>2</sub>, I<sub>3</sub>, IN and Ig, the type and status of the circuit breaker, the breaking capacity, the number of poles, the neutral position, the temperature and overtemperature intervention threshold.

### Example of Configuration menu

This menu can be used to set the different breaker parameters according to the tripping curves (time/current and ground fault curves).

## MANAGEMENT ON A SMARTPHONE/TABLET:

EnerUp + Project app available from the Apple Store and Google Play



Any model in the MP 4.10/4.10 M range



### Start menu

This menu gives access to different options like: overview of connected devices, real-time monitoring, device test, etc...

### Device overview menu

This menu displays the essential information linked to the circuit breaker like: the name, serial number, location, status and the circuit breaker parameters.

### Real-time monitoring menu

This menu displays the values of the current, voltage, power and the status of the circuit breaker.

EnerUp + Project App. available on App Store and Google Play

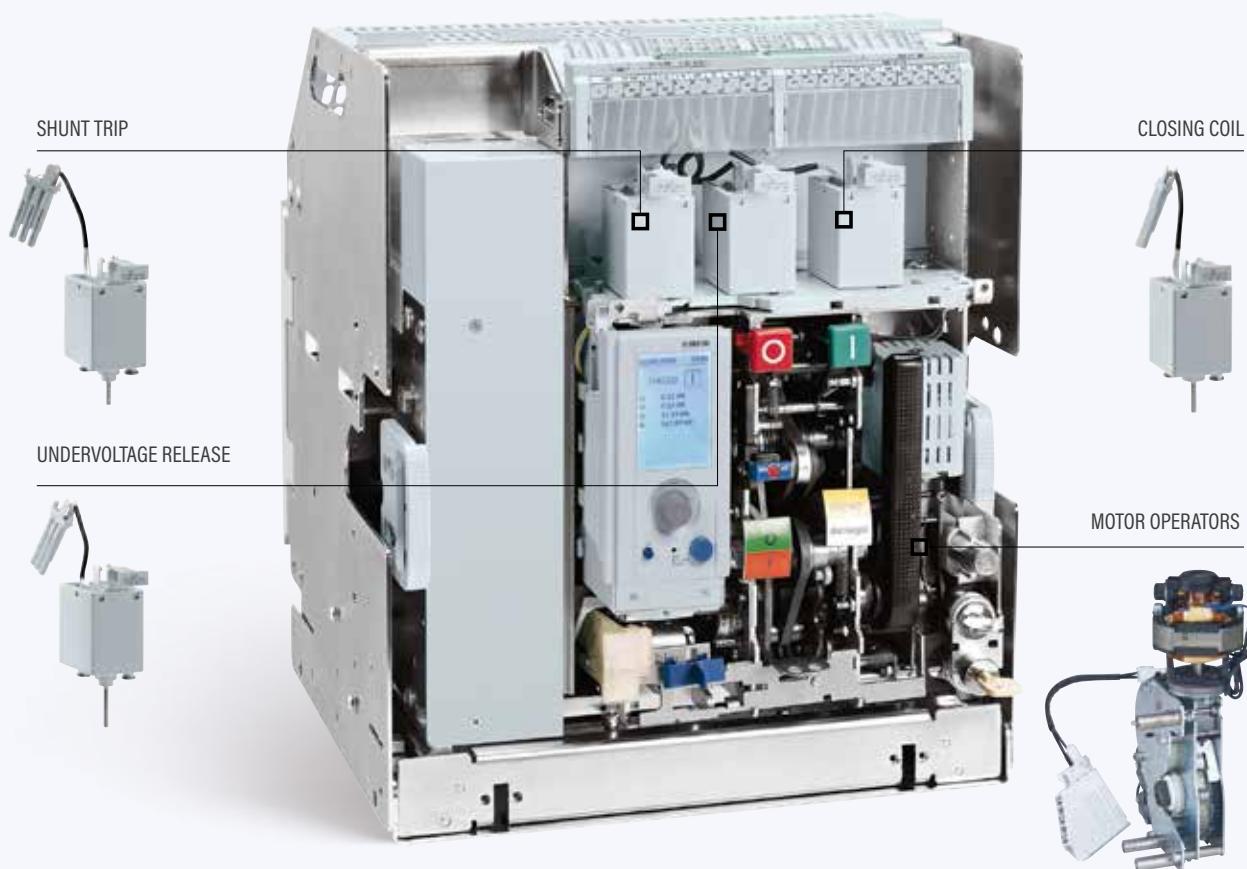


DMX<sup>3</sup> 4000 - 1000 V~ // CONTROL AND SIGNALLING AUXILIARIES

# Simplicity and time-saving installation

## THEY SIMPLY CLIP INSIDE THE CIRCUIT BREAKER

The complete range of control and signalling auxiliaries (shunt releases or undervoltage releases, motor operators, auxiliary contacts, etc) can be used to control DMX<sup>3</sup> 4000 – 1000 V~ air circuit breakers remotely and relay information concerning the status of the device contacts. All the control auxiliaries simply clip inside the circuit breaker after removing the front panel. They are fitted with quick-connect connectors for maximum time saving when wiring the terminal block provided for this purpose.



**ALL THE CONTROL ACCESSORIES CAN EASILY BE INSTALLED WITHOUT A SPECIAL TOOL IN A MATTER OF MINUTES. THEY SHOULD BE INSTALLED ON THE FRONT PANEL OF THE AIR CIRCUIT BREAKER. THIS ENSURES SEPARATION BETWEEN THE POWER AND CONTROL CIRCUITS.**

### SHUNT RELEASES

Shunt releases are devices used for remote instantaneous opening of the air circuit breaker. They are usually controlled by an NO type contact. The shunt releases are fitted with a special quick-release connector, to be directly inserted into the auxiliary contact block.



Rated voltage Un (V)	24 V $\sim$ /= 48 V $\sim$ /= 110 - 130 V $\sim$ /= 220 - 250 V $\sim$ /= 415 - 440 V $\sim$
Operating threshold %Un	70 to 100
Maximum consumption (W/VA)	500/500
Pulse duration (ms)	180
Hold-in consumption (W/VA)	5/5
Response time (ms)	30
Insulation voltage (kV)	2.5

### UNDERVOLTAGE RELEASES

Undervoltage releases are devices which are generally controlled by an NC type contact. They trigger instantaneous opening of the circuit breaker if their supply voltage drops below a certain threshold and especially if the control contact opens. These releases are equipped with a device for limiting their consumption after the circuit has been closed.



Rated voltage Un (V)	24 V $\sim$ /= 48 V $\sim$ /= 110 - 130 V $\sim$ /= 220 - 250 V $\sim$ /= 415 - 440 V $\sim$
Operating threshold %Un	85 to 110
Maximum consumption (W/VA)	500/500
Pulse duration (ms)	180
Hold-in consumption (W/VA)	5/5
Response time (ms)	60
Insulation voltage (kV)	2.5

### CLOSING COILS

These coils are used for remotely controlling closing of the circuit breaker power contacts. The circuit breaker springs should be loaded prior to action of the closing coils. The coils are controlled by an NO type contact.



Rated voltage Un (V)	24 V $\sim$ /= 48 V $\sim$ /= 110 - 130 V $\sim$ /= 220 - 250 V $\sim$ /= 415 - 440 V $\sim$
Operating threshold %Un	85 to 110
Maximum consumption (W/VA)	500/500
Pulse duration (ms)	180
Hold-in consumption (W/VA)	5/5
Response time (ms)	50
Insulation voltage (kV)	2.5

### MOTOR OPERATORS

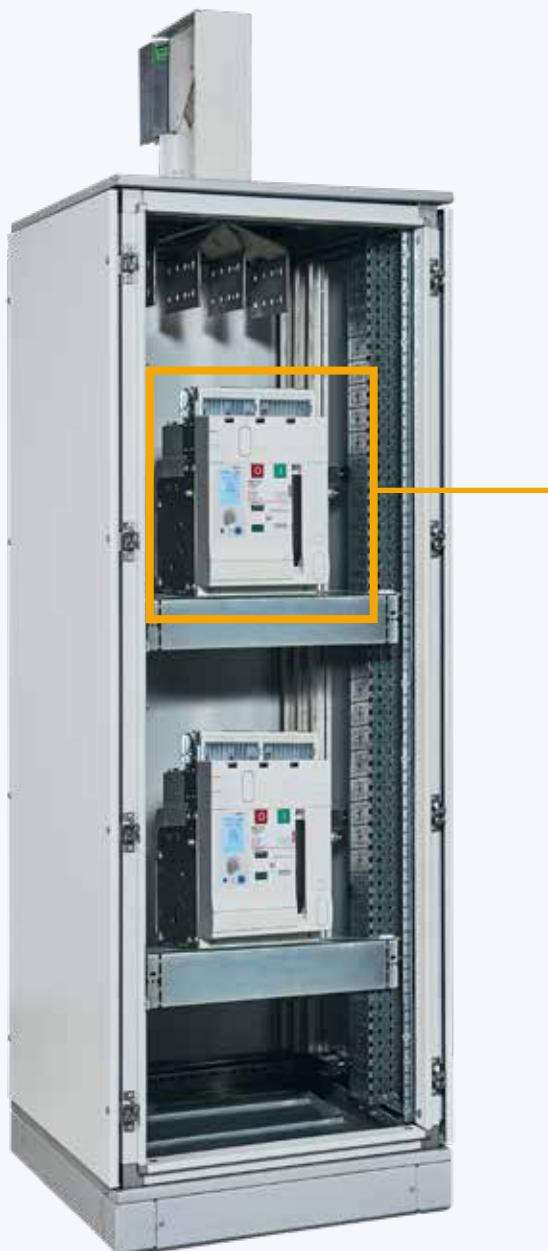


Rated voltage Un (V)	24 V $\sim$ /= 48 V $\sim$ /= 110 - 130 V $\sim$ /= 220 - 250 V $\sim$ /= 415 - 440 V $\sim$ 480 V $\sim$
Operating threshold %Un	85 to 110
Maximum consumption (W/VA)	240/240
Max. peak current	2 to 3 x In for around 80 ms
Spring reloading time (s)	5
Number of operations/minute	2

# Maximum adaptability in the distribution board

## DIFFERENT CONFIGURATIONS POSSIBLE

The connection accessories are quick to install and are totally adaptable to different busbar configurations in the distribution board: flat, vertical or horizontal connection. In addition the catalogue numbers are the same to those for the DMX<sup>3</sup> range, which helps to optimise management.



### FIXED VERSION

DMX<sup>3</sup> air circuit breakers are factory-fitted with rear terminals for horizontal connection. For flat connection, simply add rear terminals Cat.Nos 0 288 92/93 which fit directly on to the built-in horizontal terminals. With vertical connection, 2 accessories are used: reversible rear terminals Cat.Nos 0 288 94/95 are fitted onto the rear terminals for flat connection Cat.Nos 0 288 84/85.

### DRAW-OUT VERSION

DMX<sup>3</sup> air circuit breakers are factory-fitted with rear terminals for flat connection. You can easily reconfigure the circuit breaker for vertical or horizontal connection using reversible rear terminals Cat.Nos 0 288 94/95.

## COMPACT, OPTIMISED DIMENSIONS

The compact dimensions of DMX<sup>3</sup> 4000 – 1000 V~ air circuit breakers optimise the use of space inside the enclosure so the most appropriate size of enclosure can be chosen.

Dimensions (mm)	DMX <sup>3</sup> 4000 - 1000 V~			
	Fixed version		Draw-out version	
	3P	4P	3P	4P
Height	419	419	465	465
Width	408	538	425	555
Depth	354	354	433	433

### DMX<sup>3</sup> 4000 -1000 V~ FIXED VERSION



#### Flat connection

Cat.Nos 0 288 92/93



#### Horizontal connection

Directly on the device



#### Vertical connection

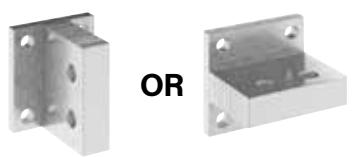
Cat.Nos 0 288 92/93 + 0 288 94/95

### DMX<sup>3</sup> 4000 -1000 V~ DRAW-OUT VERSION



#### Flat connection

Directly on the device



#### Horizontal connection

Cat.Nos 0 288 94/95

#### Vertical connection

Cat.Nos 0 288 94/95

90°

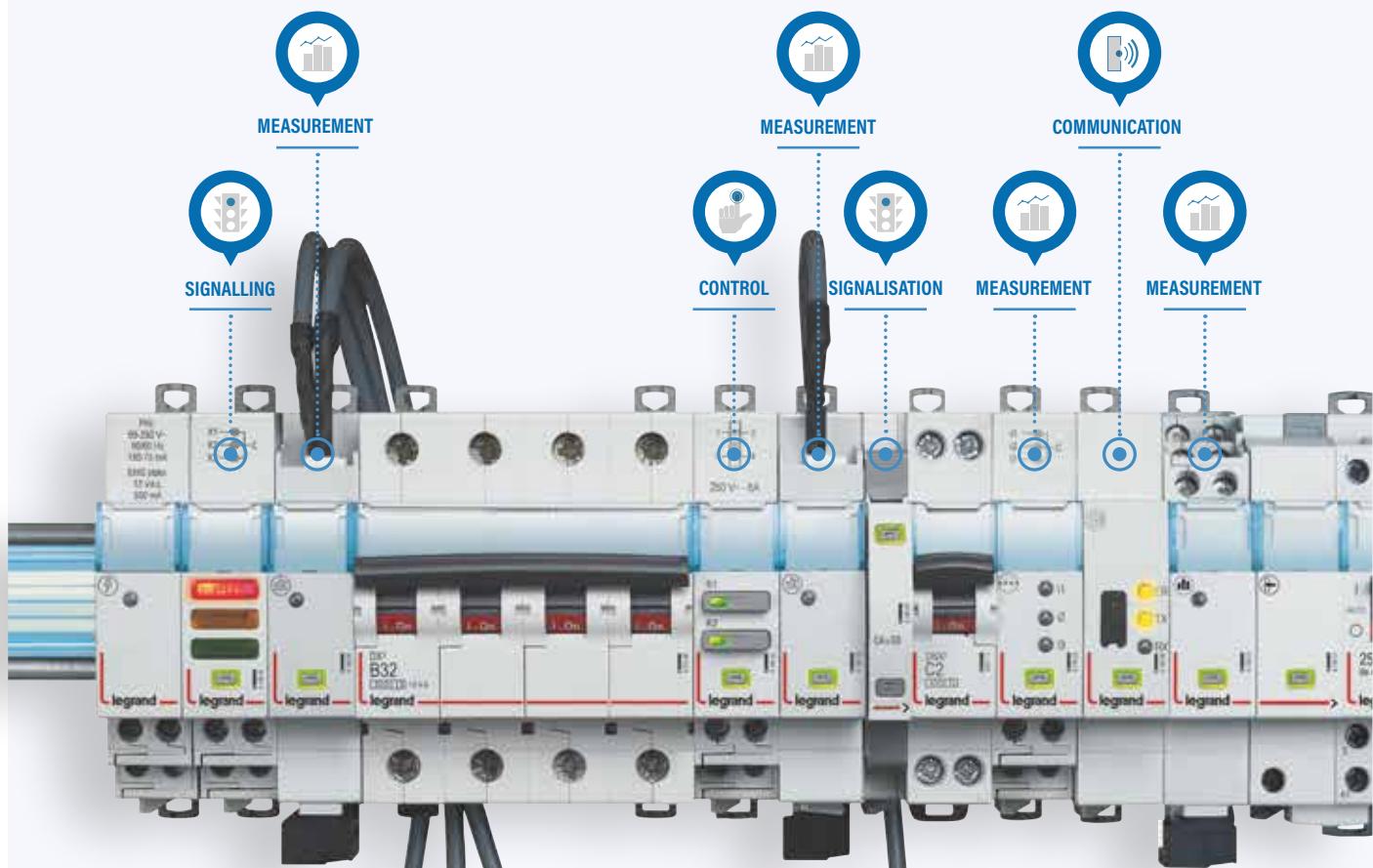
DMX<sup>3</sup> 4000 - 1000 V~ // CX<sup>3</sup> EMS

# CX<sup>3</sup> EMS, a universal, innovative system for energy management

## MONITOR AND MANAGE ENERGY CONSUMPTION

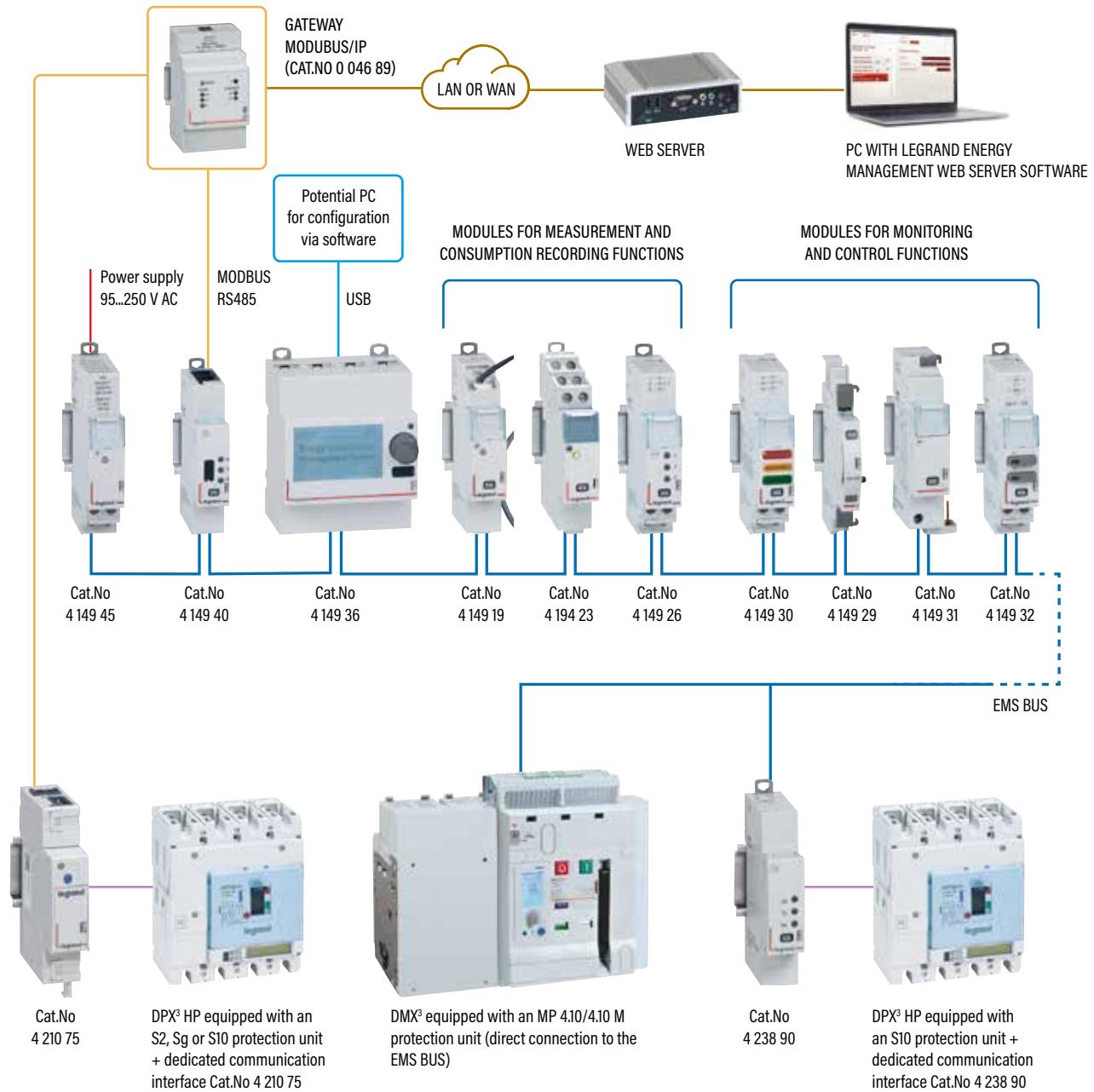
The CX<sup>3</sup> EMS energy management system is used to supervise and manage a building's energy consumption, ensuring reliability and continuity of service, for optimum installation efficiency. It offers the option of viewing, measuring and controlling the installation remotely and/or locally. Thanks to the innovative automatic connection process, this autonomous and fully integrated system simplifies mounting and does not require changes to the existing distribution boards wiring.

The CX<sup>3</sup> EMS system consists of modules to be mounted on a DIN rail. There is no minimum number of modules and it can also be used to perform very basic supervision tasks. Thanks to its scalability, new functions can be added at any time to suit the needs of the installation.



## SCHEMATIC DIAGRAM

CX<sup>3</sup> EMS modules are compatible with all Legrand protection devices, from the simple DIN rail mounting circuit breaker, to DPX<sup>3</sup> MCCBs or DMX<sup>3</sup> ACBs.



### LEGRAND ADVANTAGE

For DPX<sup>3</sup> and DMX<sup>3</sup> devices equipped with protection units with integrated measurement, the measured values are automatically fed back to the Legrand Energy Management Web Server software.

DPX<sup>3</sup> 250 - 1000 V~ // MOULDED CASE CIRCUIT BREAKERS FROM 63 A TO 250 A

# Efficient and reliable protection up to 250 A

## AVAILABLE IN 3 OR 4-POLE FIXED VERSION

The DPX<sup>3</sup> 250 - 1000 V~ range of thermal magnetic circuit breakers has been designed to meet your requirements when it comes to protecting an electrical installation up to 250 A, especially when it comes to photovoltaic plants, railway infrastructures or tunnels. The robust design of the range, the adjustable protection, the different accessories for connection and remote tripping have made it the right choice in terms of efficiency and reliability.

Clear, simple, indelible marking on the front of the MCCB stating the main characteristics, such as:  
 - the rated current and frequency  
 - the rated operating voltage  
 - the breaking capacity

Neutral protection fro 4P MCCBs  
 100 % of  $I_n$

Thermal adjustment:  
 $I_r$  from 0.8 to 1 x  $I_n$

Sealing

Dedicated slots for insulated shields (phase barriers)



Terminals for connection via cables with lugs or busbars.  
 Can be equipped with cage terminals or with spreaders

Robust handle  
 The DPX<sup>3</sup> 250 - 1000 V~ has proven mechanical endurance up to 20000 operations.

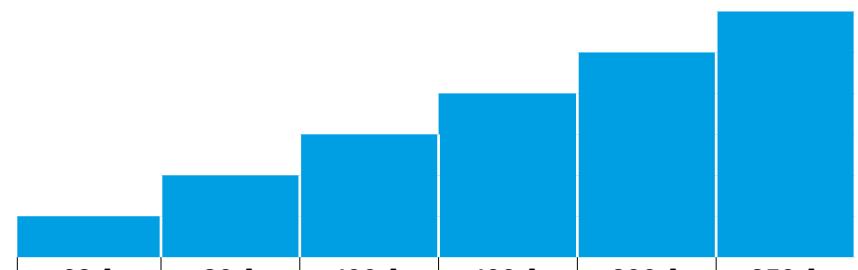
Test button (manual tripping)

Magnetic adjustment:  
 $I_i$  from 5 to 10 x  $I_n$  for  $I_n \geq 100$  A

**DPX<sup>3</sup> 250 - 1000 V~**  
 Conforming to  
 standard IEC 60947-2

RATED OPERATING VOLTAGE $U_e$	BREAKING CAPACITY $I_{cu}$ (kA)
800 V~	40 kA
1000 V~	20 kA

## THE RANGE



Rated current In (A)	63 A	80 A	100 A	160 A	200 A	250 A
Breaking capacity (Icu) at 1000 V~						20 kA
Breaking capacity (Icu) at 800 V~						40 kA
Adjustable protection	Thermal Ir (A)					0.8 - 0.9 - 1 x In
	Magnetic Ii (A)	Fixed: 10 x In				Adjustable : 5 - 6 - 7 - 8 - 9 - 10 x In
Number of poles						3P and 4P

## THERMAL-MAGNETIC PROTECTION



The tripping thresholds for the thermal and magnetic protection can be easily adjusted thanks to the dedicated thumbwheel on the front of the MCCBs.

## TEMPERATURE DERATING

DPX<sup>3</sup> 250 – 1000 V~ moulded case circuit breakers can be used in ambient temperature conditions between -25°C and +70°C, which is ideal for existing wind and solar power installations. They can also be installed in industrial environments. For temperatures above 40°C, derating must be applied.

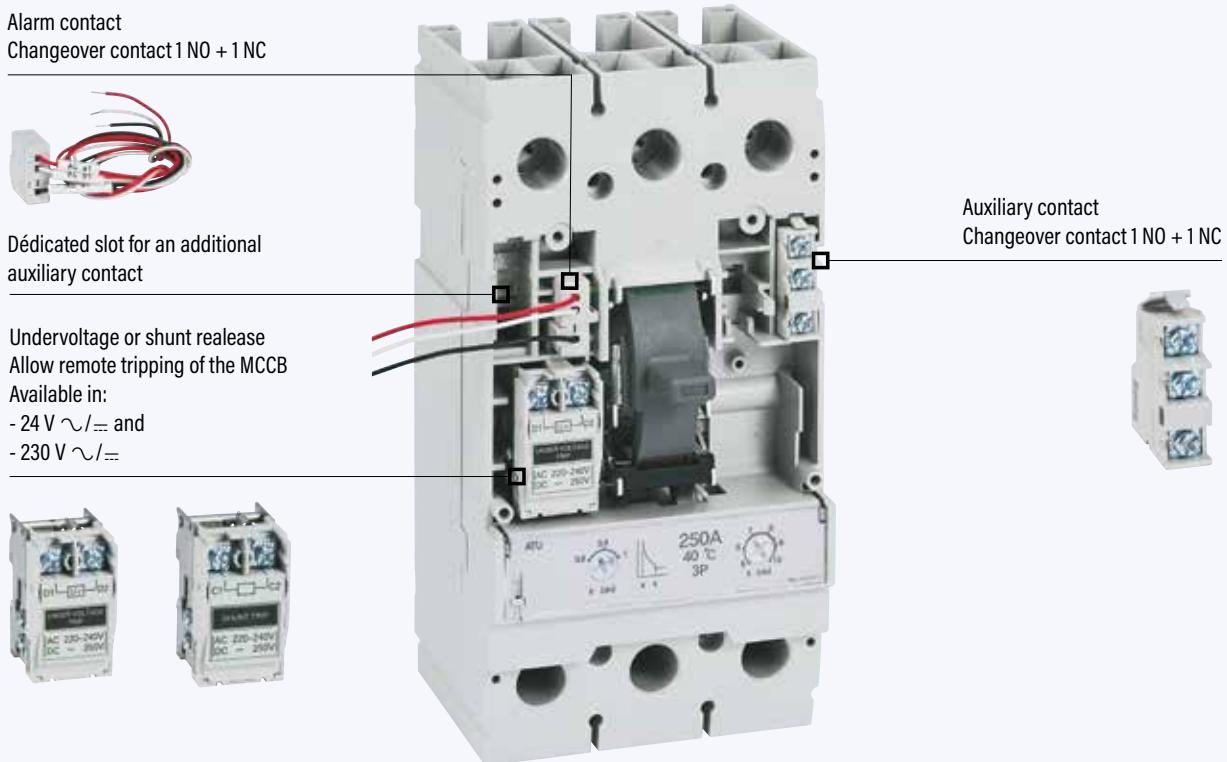
In (A)	Maximum rated current in accordance with ambient temperature I <sub>max</sub> (A)									
	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C
63	90	86	81	77	72	68	63	60	57	54
80	114	109	103	98	92	86	80	76	72	68
100	143	136	129	122	115	108	100	95	90	85
160	229	218	206	195	184	173	160	152	144	136
200	286	272	258	244	230	216	200	190	180	170
250	358	340	322	305	287	270	250	238	225	213

DPX<sup>3</sup> 250 - 1000 V~ // MOULDED CASE CIRCUIT BREAKERS FROM 63 A TO 250 A

# Easy to install auxiliaries and connection accessories

## SIMPLY CLIP ON

The DPX<sup>3</sup> 250 - 1000 V~ circuit breakers can very easily be fitted with a comprehensive range of electrical auxiliaries to provide emergency breaking, automatic or remote control, and feedback on the status of the device. All auxiliaries are installed in dedicated slots under the front panel of the MCCB. Connexion accessories complete the range.



## CONNECTION WIRES

### DPX<sup>3</sup> 250 - 1000 V~

Offer different options for outgoing connection wires on the side or on the upper part of the MCCB.



## CONNECTION ACCESSORIES FOR MULTIPLE CONFIGURATIONS



### DPX³ 250 - 1000 V~

Have the accessories needed for upstream and downstream connection using cables or bars in different configurations.

### SPREADERS



These can be used for connection with large cross-section cables. Available in 3P and 4P versions.

### CAGE TERMINALS



Cage terminals can be used for connection with large cross-section copper or aluminium cables. Available in 3P and 4P versions.

### TERMINAL COVERS



These provide IP 30 protection for the connections. Available in 3P and 4P versions.

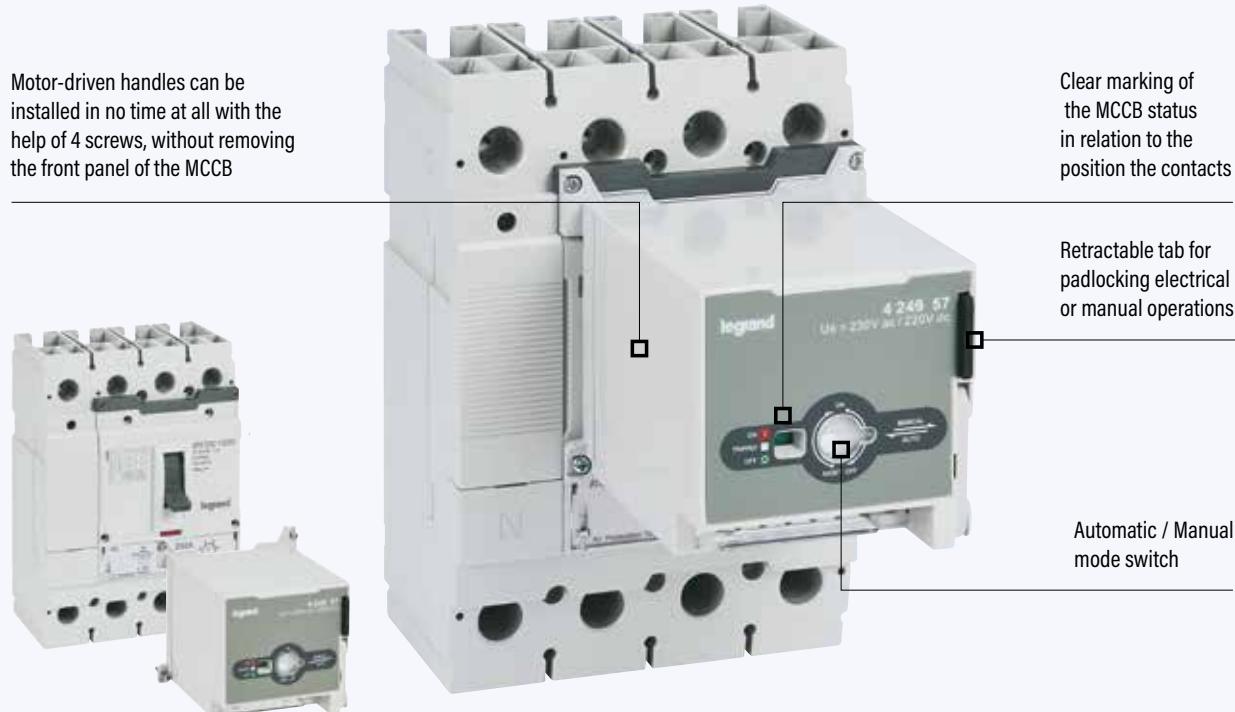
DPX<sup>3</sup> 250 - 1000 V~ // MOULDED CASE CIRCUIT BREAKERS FROM 63 A TO 250 A

# Simplified operation

## DIRECT OR REMOTE CONTROL

Motor driven handles for DPX<sup>3</sup> HP 250 - 1000 V~ enable devices to be tripped and reset remotely to provide a simple answer to operating requirements. They are available in front version and offer a choice between two supply voltages: 24 V= or 230 V~ / 220 V=. A rotary handle direct on DPX<sup>3</sup> and a vari-depth handle provide the utmost convenience and can be locked using padlocks to ensure the safety of maintenance operations. The rotary handle direct on DPX<sup>3</sup> can be locked also with the help of keylock.

### MOTOR-DRIVEN HANDLE



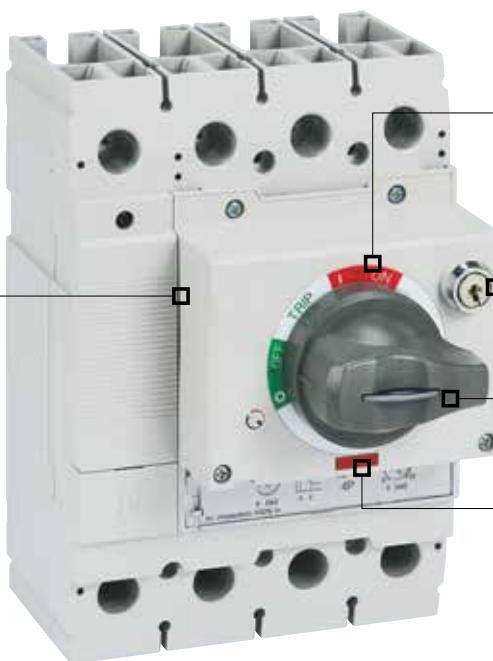
### THE MOTOR-DRIVEN HANDLE

Connection terminal is easily accessible in its lower part. Wiring operations are simplified thanks to the wiring diagram marked on the product.



## ROTARY HANDLES

Direct rotary handle can be installed with the help of 4 screws after removing the front panel of the MCCB



Clear marking of the MCCB status in relation to the position of the rotary handle

Key lock (only for the rotary handle direct on DPX³)

Retractable tab for padlocking in «OPEN» position

Test button (manual tripping)

## DIRECT AND VARI-DEPTH ROTARY HANDLE

Are supplied with all required accessories to facilitate installation.



Direct handle



Vari-depth handle on door

## Air circuit breakers DMX<sup>3</sup> 4000 - 1000 V<sup>~</sup> - from 630 A to 4000 A



DMX3232N4EF4NZ

DMX3240N4ED4NZ

Dimensions p. 25-26  
Electrical characteristics p. 24

Automatic air circuit breakers must be equipped with electronic protection unit (see opposite), imperatively ordered together for factory assembly  
Please ask for DMX<sup>3</sup> order form

Conform to IEC 60947-2

Suitable for wind turbine, photovoltaic or railway installations

Pack	Cat.Nos		Fixed version
			Supplied with - 4 auxiliary contacts: NO/NC - rear terminals for horizontal connection with bars - door sealing Breaking capacity Icu 50 kA (1000 V <sup>~</sup> ) In (A)
			Frame 4000 Manual Fixed
1	DMX3206N3MF4NZ	DMX3206N4MF4NZ	630
1	DMX3208N3MF4NZ	DMX3208N4MF4NZ	800
1	DMX3210N3MF4NZ	DMX3210N4MF4NZ	1000
1	DMX3212N3MF4NZ	DMX3212N4MF4NZ	1250
1	DMX3216N3MF4NZ	DMX3216N4MF4NZ	1600
1	DMX3220N3MF4NZ	DMX3220N4MF4NZ	2000
1	DMX3225N3MF4NZ	DMX3225N4MF4NZ	2500
1	DMX3232N3MF4NZ	DMX3232N4MF4NZ	3200
1	DMX3240N3MF4NZ	DMX3240N4MF4NZ	4000
			Electrical Fixed
1	DMX3206N3EF4NZ	DMX3206N4EF4NZ	630
1	DMX3208N3EF4NZ	DMX3208N4EF4NZ	800
1	DMX3210N3EF4NZ	DMX3210N4EF4NZ	1000
1	DMX3212N3EF4NZ	DMX3212N4EF4NZ	1250
1	DMX3216N3EF4NZ	DMX3216N4EF4NZ	1600
1	DMX3220N3EF4NZ	DMX3220N4EF4NZ	2000
1	DMX3225N3EF4NZ	DMX3225N4EF4NZ	2500
1	DMX3232N3EF4NZ	DMX3232N4EF4NZ	3200
1	DMX3240N3EF4NZ	DMX3240N4EF4NZ	4000

### Draw-out version

Supplied with  
- 4 auxiliary contacts: NO/NC  
- draw-out base and kit  
- flat rear terminals for connection with bars  
- door sealing  
Breaking capacity Icu 50 kA (1000 V<sup>~</sup>)  
In (A)

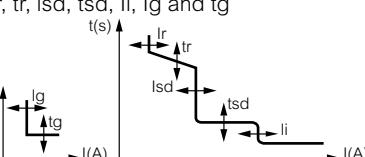
	3P	4P	Frame 4000 Manual Draw Out
1	DMX3206N3MD4NZ	DMX3206N4MD4NZ	630
1	DMX3208N3MD4NZ	DMX3208N4MD4NZ	800
1	DMX3210N3MD4NZ	DMX3210N4MD4NZ	1000
1	DMX3212N3MD4NZ	DMX3212N4MD4NZ	1250
1	DMX3216N3MD4NZ	DMX3216N4MD4NZ	1600
1	DMX3220N3MD4NZ	DMX3220N4MD4NZ	2000
1	DMX3225N3MD4NZ	DMX3225N4MD4NZ	2500
1	DMX3232N3MD4NZ	DMX3232N4MD4NZ	3200
1	DMX3240N3MD4NZ	DMX3240N4MD4NZ	4000
			Electrical Draw-Out
1	DMX3206N3ED4NZ	DMX3206N4ED4NZ	630
1	DMX3208N3ED4NZ	DMX3208N4ED4NZ	800
1	DMX3210N3ED4NZ	DMX3210N4ED4NZ	1000
1	DMX3212N3ED4NZ	DMX3212N4ED4NZ	1250
1	DMX3216N3ED4NZ	DMX3216N4ED4NZ	1600
1	DMX3220N3ED4NZ	DMX3220N4ED4NZ	2000
1	DMX3225N3ED4NZ	DMX3225N4ED4NZ	2500
1	DMX3232N3ED4NZ	DMX3232N4ED4NZ	3200
1	DMX3240N3ED4NZ	DMX3240N4ED4NZ	4000

## Electronic protection units for DMX<sup>3</sup> 4000 - 1000 V<sup>~</sup>



0 283 06 4 149 45 4 149 40 0 283 07

DMX<sup>3</sup> circuit breakers must be equipped with electronic protection units (to be ordered together for factory assembly) enabling very precise adjustments of the protection conditions, while maintaining total discrimination with downstream devices

Pack	Cat.Nos	MP4.10/4.10 M protection units with LCD screen	Number of modules
1	0 283 06	Integrated LCD screen for displaying electrical values, settings and log Equipped with batteries for powering in case of main fault or when the breaker is open or not connected Adjustment via rotating encoder Adjustmen of Ir, tr, isd, tsd, li, lg and tg Possibility to enable/disable protections Without measure With measure and display instantaneous, maximum and average values of different electrical values and protection conditions Fault signaling and log	
1	0 283 07 <sup>1</sup>		
1	0 283 10 <sup>2</sup>	<b>Protection unit MP4.10 &amp; MP 4.10 with measure LSIG</b> • <b>Long time delay protection against overloads</b> Ir from 0.2 to 1 x In (Step 1A) - OFF • <b>Long delay protection operation time</b> tr = 40 ms ÷ 30 s (step 40 ms) • <b>Short time delay protection against short circuits</b> Isd from 1,5Ir to 10 Ir - OFF (step 1A) • <b>Short time delay protection operation time</b> (t=k, I2t=k) tsd = 40 ms ÷ 1 s (step 40 ms) • <b>Instantaneous protection against very high short circuits</b> li from 2 to 15 In - OFF (step 1A) • <b>Earth fault current</b> Ig from 0.2 ÷ 1In - OFF (step 0.1In) • <b>Time delay on earth fault tripping (t=k, I2t=k)</b> tg from 80 ms ÷ 1s (step 40 ms) • <b>Neutral protection</b> IN = 50% - 100% - 150% - 200% - OFF <b>Bluetooth communication key</b>	
1	4 149 45	USB key for Bluetooth communication with DMX <sup>3</sup> protection units. Needed to remotely configure, monitor and manage the DMX <sup>3</sup> protection units through EnerUp + Project App	1
1	4 149 40	<b>Power supply module</b> 500 mA 12V <sub>DC</sub> stabilized power supply module for CX <sup>3</sup> energy management system	1
1	0 281 98 <sup>3</sup>	<b>Communication interface</b> RS485 / CX <sup>3</sup> energy management system conversion Consumption: 0.344 W - 28.7 mA (12 V <sub>DC</sub> )	1
1	0 281 98 <sup>3</sup>	<b>External neutral</b> For DMX <sup>3</sup> 4000 - 1000 V <sub>~</sub>	

1: For the correct working of metering function it's necessary to connect a CX<sup>3</sup> EMS power supply module Cat. No 4 149 45

2: EnerUp + Project App for smartphone and tablet available on Apple Store and Google Play. Configuration, monitoring and management software (PCS) available for download via e-catalogue (does not require the use of Bluetooth communication key Cat. No 0 283 10)

3: Optional accessories if required to be factory fitted, need to be ordered separately along with DMX3 ACB.

4: The cat. ref ending with 4NZ and 4MZ includes MP4.10 and MP4.10M Protection Units respectively.

5: The Cat.ref of EF and EDO ACBs include internal accessories Shunt opening Coil - 240VAC/DC, closing Coil 240VAC/DC, ECD 240 VAC/DC

6: For Internal Accessories with Auxiliary/control Voltages other than 220 - 240 VAC and DC, please contact sales office.

## Auxiliaries and accessories for DMX<sup>3</sup> 4000 - 1000 V~



0 288 51

0 288 58

0 288 37

0 288 44



4 238 80



4 238 81

4 238 82



4 238 83

Pack	Cat.Nos	Control and signalling auxiliaries
		<b>Shunt trip</b> When energised the circuit breaker will be tripped
1	0 288 48	24 V~/=
1	0 288 49	48 V~/=
1	0 288 50	110 - 130 V~/=
1	0 288 51	220 - 250 V~/=
1	0 288 52	415 - 480 V~
		<b>Undervoltage releases</b> When the coil is de-energised, the circuit breaker will be tripped
1	0 288 55	24 V~/=
1	0 288 56	48 V~/=
1	0 288 57	110 - 130 V~/=
1	0 288 58	220 - 250 V~/=
1	0 288 59	415 - 480 V~
		<b>Module for delayed tripping</b> To be used with above undervoltage releases
1	0 288 62	110 V~/=
1	0 288 63	230 V~/=
		<b>Motor operators</b> To motorize a DMX <sup>3</sup> , it is possible to attach, to the motor operators, a release coil (undervoltage or trip on energising) and a closing coil
1	0 288 34	24 V~/=
1	0 288 35	48 V~/=
1	0 288 36	110 - 130 V~/=
1	0 288 37	220 - 250 V~/=
1	0 288 38	415 - 440 V~
1	0 288 40	480 V~/=
		<b>Closing coils</b> Enables remote closing of the circuit breaker if the closing spring is charged
1	0 288 41	24 V~/=
1	0 288 42	48 V~/=
1	0 288 43	110 - 130 V~/=
1	0 288 44	220 - 250 V~/=
1	0 288 45	415 - 480 V~
		<b>Signalling contact for auxiliaries</b> Signalling contact for shunt trips, undervoltage releases and closing coils
1	0 288 16	Signalling contact for draw-out version Inserted / test / draw-out signalling contact 3 changeover contacts per position
1	0 288 13	

Pack	Cat.Nos	Locking
		<b>Universal key locks</b> To be used in combination with key locking supports Cat.Nos 0 281 94/0 288 28
1	4 238 80	Key barrel and flat key with random mapping
1	4 238 81	Key barrel and flat key with fixed mapping EL43525
1	4 238 82	Key barrel and flat key with fixed mapping EL43363
1	4 238 83	Key barrel and star key with random mapping
1	0 288 28	<b>Key locking support in "open" position</b> For locking a DMX <sup>3</sup> in "open" position To be equipped with universal keylocks Cat.Nos 4 238 80/81/82/83
1	0 281 94	<b>Key locking support in draw-out position</b> For locking a DMX <sup>3</sup> in draw-out position To be equipped with universal keylocks Cat.Nos 4 238 80/81/82/83
1	0 288 20	<b>Door locking</b> Prevents opening of the door with the circuit breaker closed Left-hand and right-hand side mounting
1	0 288 21	<b>Padlocks in "open" position</b> Padlocking system for ACB (padlock not supplied)
1	0 288 24	Padlock for buttons
1	0 288 26	Padlocking system for shutters (padlock not supplied)
		<b>Equipment for conversion of a fixed device into draw-out device</b>
1	3P 0 289 04   4P 0 289 05	<b>Bases for draw-out device</b> For DMX <sup>3</sup> /DMX <sup>3</sup> -I frame 4000
1	0 289 11   0 289 12	<b>Transformation kit for draw-out version</b> For DMX <sup>3</sup> /DMX <sup>3</sup> -I frame 4000
		<b>Accessories</b>
1	0 288 17	Inserted/Test/Draw-out lock button
1	0 288 25	Rating mis-insertion device
1	0 288 23	Prevents the insertion of a draw-out circuit breaker in an incompatible base
1	0 288 14	Operations counter
1	0 288 15	Counts total number of operation cycles of the device
1	0 288 79	Contact "ready to close" with charged springs
1	0 288 15	Additional signalling contact
1	0 288 79	Lifting plate

## Rear terminals for DMX<sup>3</sup> 4000 - 1000 V~

## DMX<sup>3</sup> 4000 - 1000 V~

### technical characteristics



0 288 92

0 288 94

Dimensions p. 25-26

Pack	Cat.Nos	
1	3P 0 288 92	4P 0 288 93
1	0 288 94	0 288 95
<b>Rear terminals</b>		
<b>For DMX<sup>3</sup> frame 4000, 6300 and DMX<sup>3</sup> 4000 - 1000 V~ fixed version</b> For flat connection with bars To be fixed onto horizontal rear terminals of the circuit breaker 2 sets are required for frame 6300		
<b>For DMX<sup>3</sup> frame 4000, 6300 and DMX<sup>3</sup> 4000 - 1000 V~ fixed or draw-out version</b> On DMX <sup>3</sup> fixed version: - For vertical connection with bars - To be fixed onto Cat.Nos 0 288 92/93 according to the number of poles On DMX <sup>3</sup> draw-out version: - For vertical or horizontal connection with bars - To be fixed directly onto plate rear terminals of the circuit breaker 2 sets are required for frame 6300		
<b>Insulation shields</b>		
1	3P 0 288 98	4P 0 288 99
1	0 288 18	0 288 19
<b>For fixed version</b> Insulation shields for DMX <sup>3</sup> /DMX <sup>3</sup> -I frames 2500 / 4000 / 6300 and DMX <sup>3</sup> 4000 - 1000 V~		
<b>For draw-out version</b> Insulation shields for DMX <sup>3</sup> /DMX <sup>3</sup> -I frames 2500 / 4000 / 6300 and DMX <sup>3</sup> 4000 - 1000 V~		

### Technical characteristics

DMX <sup>3</sup> according to IEC 60947-3	DMX <sup>3</sup> 4000 - 1000 V~	
<b>Release type</b>	electronic	
<b>Number of poles</b>	3P - 4P	
<b>Pole pitch (mm)</b>	130	
<b>Rated current I<sub>n</sub> (A)</b>	630/800/1000/1250/1600/2000/2500/3200/4000	
<b>Rated insulation voltage U<sub>i</sub> (V)</b>	1250	
<b>Rated impulse withstand voltage U<sub>imp</sub> (kV)</b>	12	
<b>Rated operational voltage (50/60Hz) U<sub>e</sub> (V)</b>	1150	
<b>Frame</b>	4000	
<b>Rated ultimate short-circuit breaking capacity I<sub>cu</sub> (kA)</b>	800 V AC 1000 V AC	65 50
<b>Rated service short-circuit breaking capacity I<sub>cs</sub> (% I<sub>cu</sub>)</b>	100%	
<b>Rated short-circuit making capacity I<sub>cm</sub> (kA)</b>	800 V AC 1000 V AC	143 105
<b>Rated short time withstand current I<sub>cw</sub> (kA) for t = 1s</b>	800 V AC 1000 V AC	65 50
<b>Rated short time withstand current I<sub>cw</sub> (kA) for t = 3s</b>	800 V AC 1000 V AC	65 50
<b>Category of use</b>	B	
<b>Suitable for insulation</b>	Yes	

### Derating at different altitudes

Air circuit breaker	DMX <sup>3</sup> 4000 - 1000 V~			
Altitude (m)	2000	3000	4000	5000
<b>Rated current (at 40°C) I<sub>n</sub> (A)</b>	I <sub>n</sub>	0.98 x I <sub>n</sub>	0.94 x I <sub>n</sub>	0.9 x I <sub>n</sub>
<b>Rated voltage U<sub>e</sub> (V)</b>	1000	880	750	690
<b>Rated insulation voltage U<sub>i</sub> (V)</b>	1250	1100	950	850
<b>Dielectric withstand (V)</b>	3500	3200	2500	2000

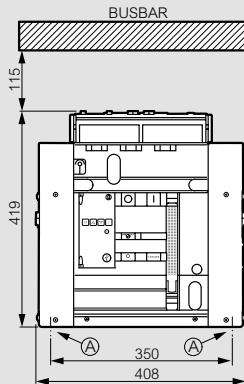
# DMX<sup>3</sup> 4000 - 1000 V~ - frame 4000

## dimensions

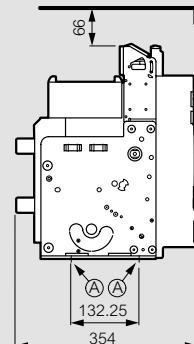
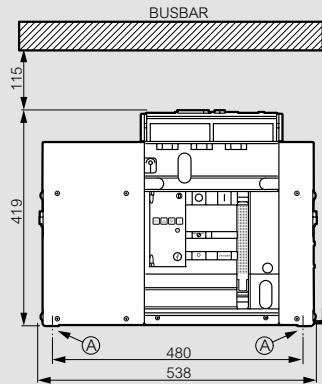
### Fixed version - frame 4000

#### Overall dimensions

##### 3P version

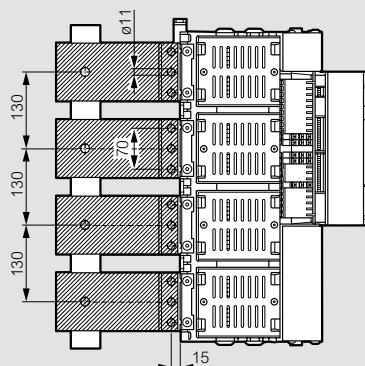
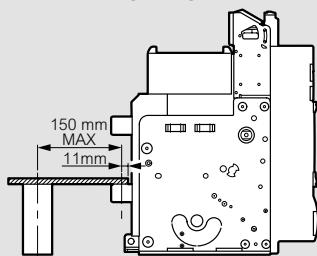


##### 4P version



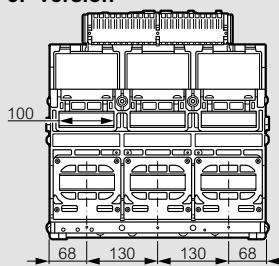
A = fixing point on plate of enclosure

#### Connection principle

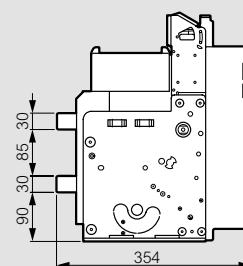
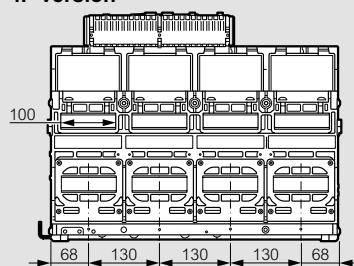


#### Rear terminals

##### 3P version



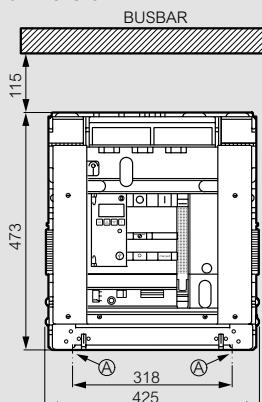
##### 4P version



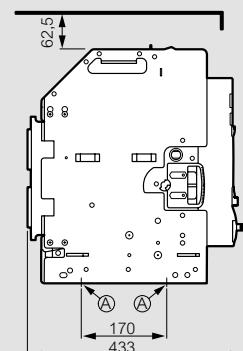
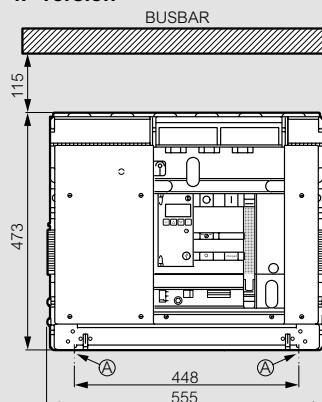
### Draw-out version - frame 4000

#### Overall dimensions

##### 3P version



##### 4P version



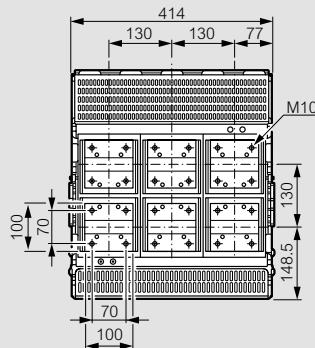
## DMX<sup>3</sup> 4000 - 1000 V $\sim$ - frame 4000

### dimensions (continued)

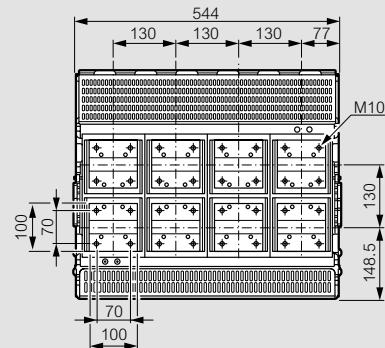
#### ■ Draw-out version - frame 4000 (continued)

##### Rear terminals for flat connection with bars

###### 3P version



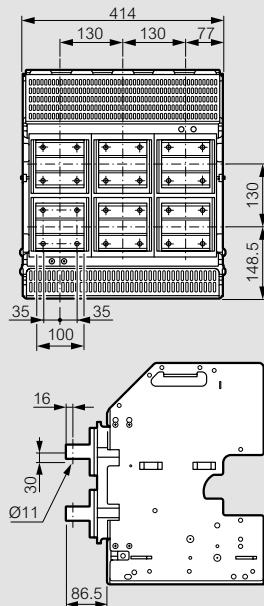
###### 4P version



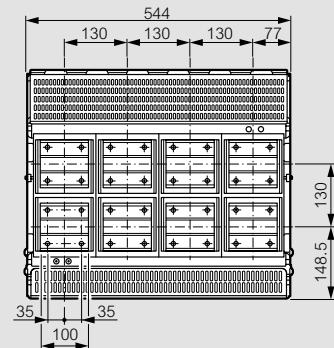
##### Rear terminals for horizontal connection with bars

Cat.Nos 0 288 92/93

###### 3P version



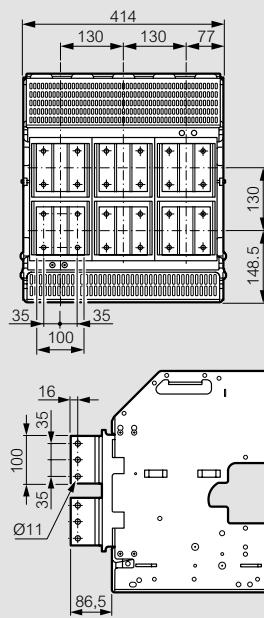
###### 4P version



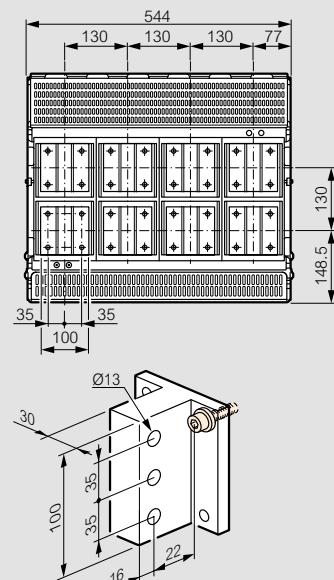
##### Rear terminals for vertical connection with bars

Cat.Nos 0 288 92/93

###### 3P version



###### 4P version



## DPX<sup>3</sup> 250 - 1000 V~

thermal magnetic release MCCBs from 63 to 250 A - fixing on plate



4 249 05



4 249 15

 Dimensions **p. 29**  
Technical characteristics **p. 28**

Moulded case MCCBs for switching, control isolation and protection of low voltage electrical lines

Suitable for renewable energy (photovoltaic, wind turbine) or railway installations

Can be fitted with auxiliaries (p. 28)

Supplied with: screws for connections, fixing screws, and insulated shields (phase barriers)

Can be fitted with cage terminals for Cu/Al cables

Conform to IEC 6094-2 - sealable adjustment

Can be mounted on plate in XL<sup>3</sup> HP cabinets and enclosures

Pack.	Cat.Nos		MCCBs thermal magnetic release - fixed version
			Thermal adjustable from 0,8 to 1 x In Magnetic: - fixed 10 x In for In = 63 A and 80 A - adjustable from 5 to 10 x In for In = 100 A to 250 A Breaking capacity Icu 20 kA (1000 V~)
1	3P	4P	In (A)
1	4 249 00	4 249 10	63
1	4 249 01	4 249 11	80
1	4 249 02	4 249 12	100
1	4 249 03	4 249 13	160
1	4 249 04	4 249 14	200
1	4 249 05	4 249 15	250

## DPX<sup>3</sup> 250 - 1000 V~

accessories



4 249 58



4 249 57



4 249 64



4 249 61



4 249 62

### Rotary handles

#### Direct on DPX<sup>3</sup>

Standard (grey)

#### Vari-depth handle

Standard (grey)

### Motor-driven handles

#### Front installation motor operators

For DPX<sup>3</sup> 250 - 1000 V~ 3P / 4P

1 4 249 56

24 V<sub>dc</sub>

1 4 249 57

230 V~ / 220 V<sub>dc</sub>

### Connection accessories

#### Sealable terminal shields (for front terminals)

Set of 2

1 4 249 64

For DPX<sup>3</sup> 250 - 1000 V~ 3P

1 4 249 65

For DPX<sup>3</sup> 250 - 1000 V~ 4P

#### Cage terminals

For flexible or rigid Cu/Al cables

Cu: 120 - 150 mm<sup>2</sup>

Al: 150 mm<sup>2</sup> max.

1 4 249 61

Set of 3 terminals for DPX<sup>3</sup> 250 - 1000 V~ 3P

1 4 249 66

Set of 4 terminals for DPX<sup>3</sup> 250 - 1000 V~ 4P

#### Spreaders

For incoming bars or cable lugs

1 4 249 62

Set of 3 spreaders for DPX<sup>3</sup> 250 - 1000 V~ 3P

1 4 249 63

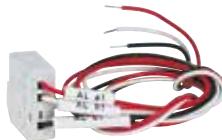
Set of 4 spreaders for DPX<sup>3</sup> 250 - 1000 V~ 4P

## DPX<sup>3</sup> 250 - 1000 V~

control and signalling auxiliaries



4 249 50



4 249 51



4 249 53



4 249 55

### Auxiliary contact

1 4 249 50 Auxiliary contact

### Alarm contact

1 4 249 51 Alarm contact

### Shunt releases

1 4 249 52 24 V~ / =  
1 4 249 53 230 V~ / =

### Undervoltage releases

1 4 249 54 24 V~ / =  
1 4 249 55 230 V~ / =

## DPX<sup>3</sup> 250 - 1000 V~

technical characteristics

### Technical characteristics

MCCBs		DPX <sup>3</sup> 250 - 1000 V~
Rated current $I_n$ (A)		63, 80, 100, 160, 200, 250
Number of poles		3P - 4P
Rated insulation voltage $U_i$ (Vac)		1000
Rated operating voltage $U_e$ (Vac)		1000
Rated impulse withstand voltage $U_{imp}$ (kV)		8
Rated frequency (Hz)		50-60
Rated ultimate short-circuit breaking capacity $I_{cu}$ (kA)	800 V~ 1000 V~	40 20
Rated service short-circuit breaking capacity $I_{cs}$ (% $I_{cu}$ )	800 V~ 1000 V~	75 50
Rated short-circuit making capacity $I_{cm}$ (kA)	800 V~ 1000 V~	84 40
Reference ambient temperature (°C)		40
Operating temperature (°C)		-25 to 70
Mechanical endurance (cycles)		20000
Electrical endurance at $I_n$ (cycles)		1000
Category of use		A
Suitable for isolation		Yes
Release type		thermal-magnetic
Thermal adjustment $I_r$ (A)		0.8 to 1 x $I_n$
Magnetic adjustment $I_i$ (A)		10 x $I_n$ for $I_n$ = 63 and 80 A 5 to 10 x $I_n$ for $I_n$ = 100 to 250 A
Neutral protection for 4P MCCBs (% of $I_n$ of phase pole)		100 %

### Temperature derating

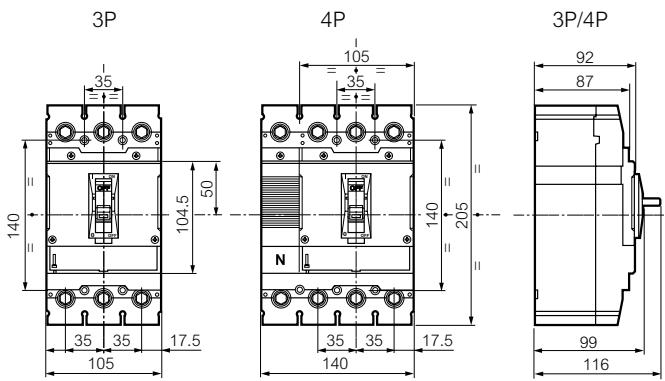
$I_n$ (A)	Compensated rated current in accordance with ambient temperature (A)									
	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C
63	90	86	81	77	72	68	63	60	57	54
80	114	109	103	98	92	86	80	76	72	68
100	143	136	129	122	115	108	100	95	90	85
160	229	218	206	195	184	173	160	152	144	136
200	286	272	258	244	230	216	200	190	180	170
250	358	340	322	305	287	270	250	238	225	213

# DPX<sup>3</sup> 250 - 1000 V~

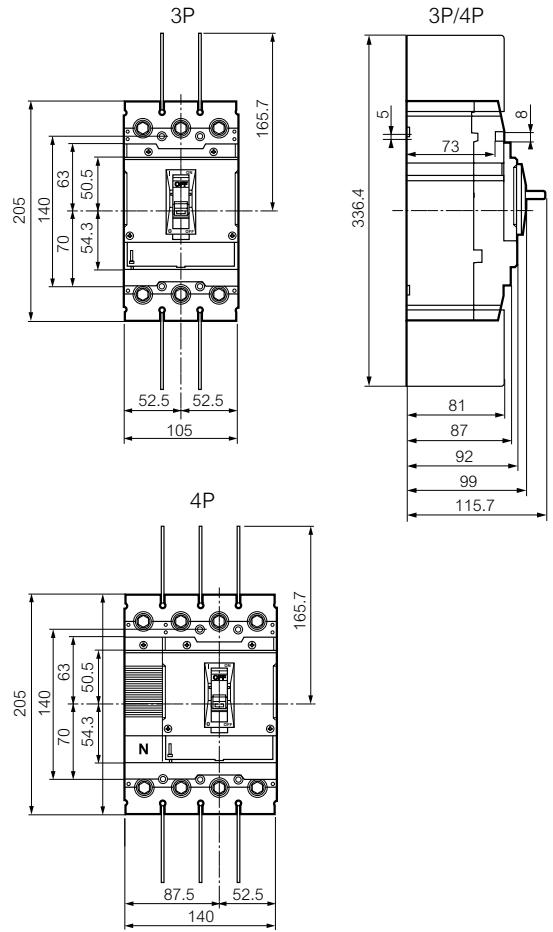
## dimensions

### Dimensions

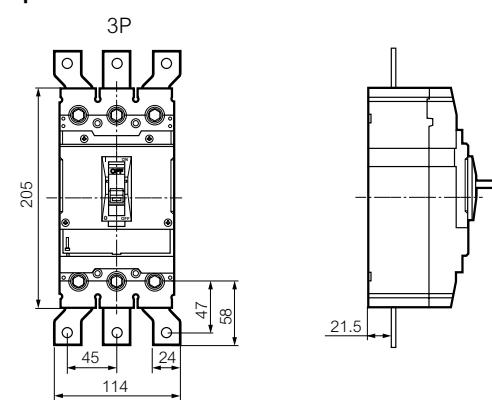
#### Fixed version



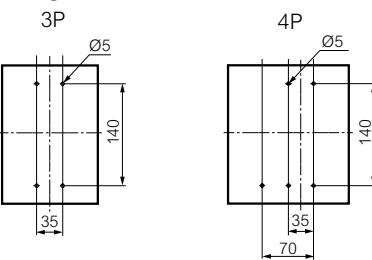
#### Dimensions with insulated shields (phase barriers)



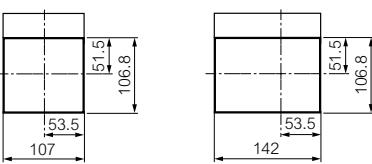
#### Spreaders Cat.Nos 4 249 62/63



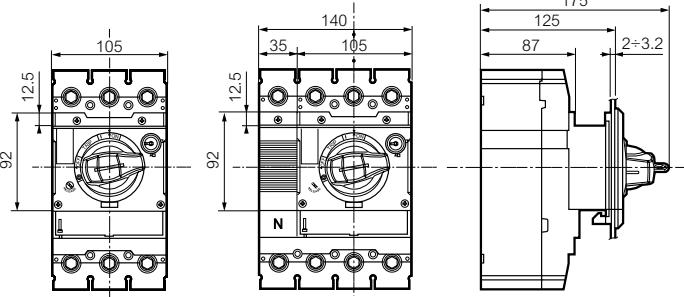
#### Fixing



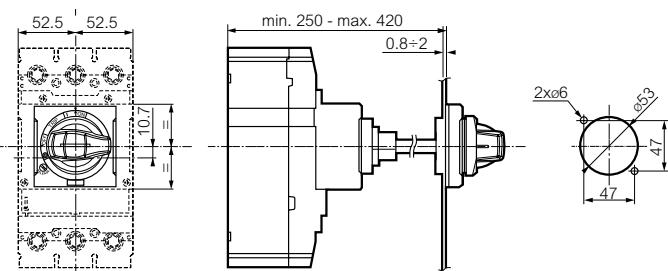
#### Faceplate cutting



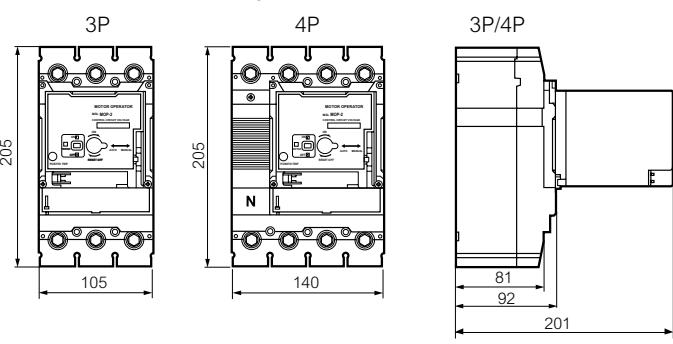
#### Rotary handle direct on DPX<sup>3</sup> Cat.Nos 4 249 58



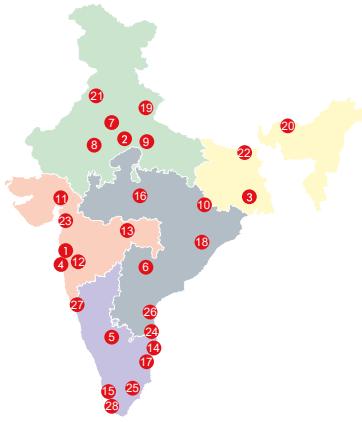
#### Vari-depth handle Cat.Nos 4 249 59



#### Front installation motor operators Cat.Nos 4 249 56/57



## Notes



## Head offices

- 61 & 62, 6<sup>th</sup> Floor, Kalpataru Square, Kondivita Road, Off Andheri-Kurla Road, Andheri (E), **MUMBAI** - 400 059.  
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