

AIR CIRCUIT BREAKERS

DMX³

EFFICIENT
PROTECTION
UP TO 6300 A



MAY 2021



-> CATALOGUE PAGES INSIDE

THE GLOBAL SPECIALIST
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES



DMX³ ACBs UP TO 6 300 A

EFFICIENT
PROTECTION
AND CONTROL
FOR ALL TYPE
OF INSTALLATIONS



DMX³ frame 2500

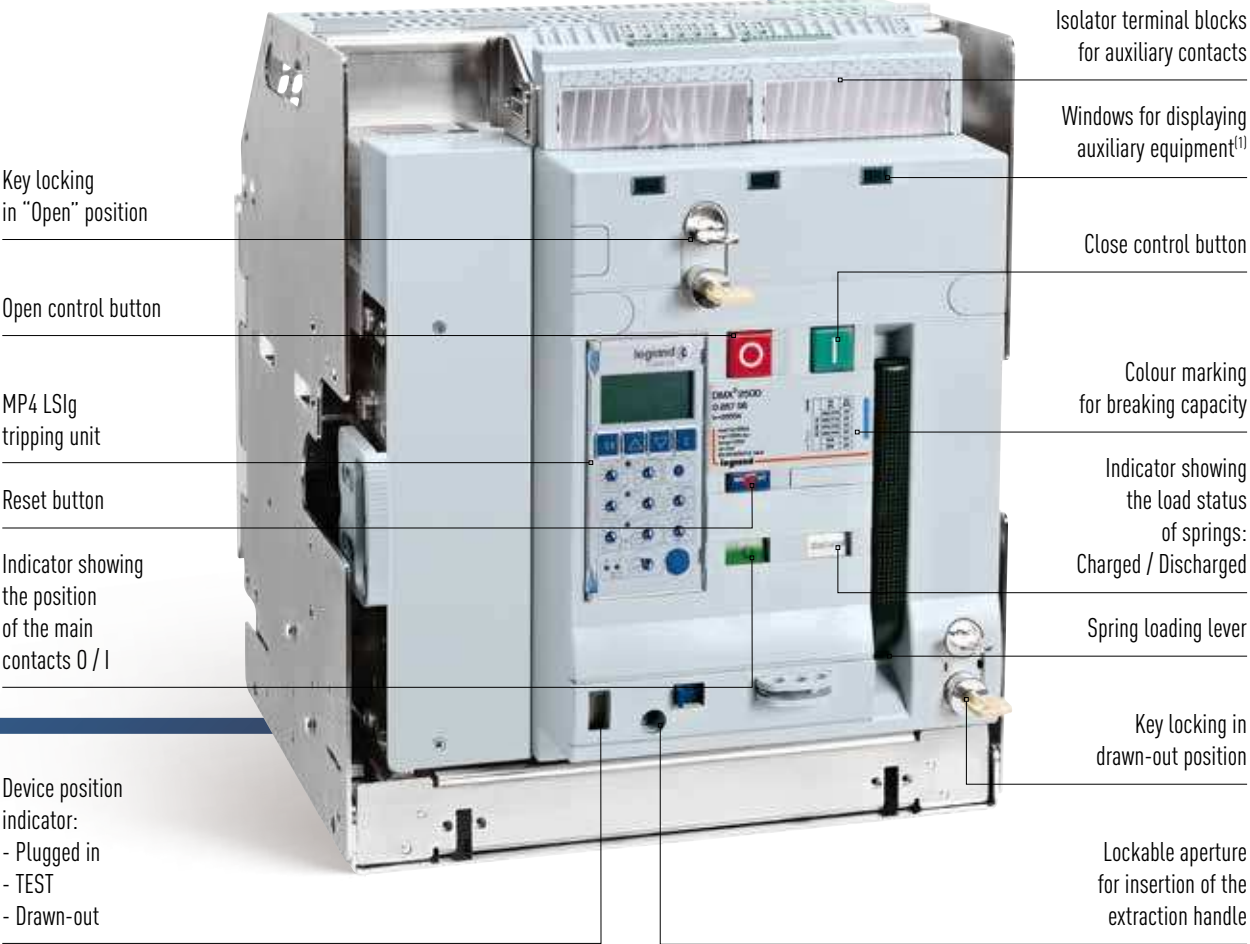


DMX³ frame 4000



DMX³ frame 6300

Draw-out DMX³
frame 2500



Optimized
performance
up to 6 300 A

DMX³ air circuit breakers and DMX³-I isolating switches are available in Three frame sizes. Three breaking capacities for circuit breakers: 50 kA, 65 kA and 100 kA.

The range covers 11 rated currents, between 630 A and 6 300 A. All range of DMX³ air circuit breakers and DMX³-I isolating switches is available in fixed and draw-out version.

- DMX³ 50 kA
- DMX³ 65 kA
- DMX³ 100 kA
- DMX³-I

(1) Available only on DMX³ 2500, 4000 and 6300

BREAKING CAPACITIES AND RATED CURRENTS											
	630 A	800 A	1 000 A	1 250 A	1 600 A	2 000 A	2 500 A	3 200 A	4 000 A	5 000 A	6 300 A
DMX ³ -N	50 kA FIXED/DRAW-OUT										-
DMX ³ -H	65 kA FIXED/DRAW-OUT										-
DMX ³ -L	100 kA FIXED/DRAW-OUT										100 kA F/D-O

OVERAL DIMENSIONS AND WEIGHT					
Fixed version					
		Height	Depth	Width	Weight ⁽²⁾
FRAME 1600 50 kA	3P	321 mm	203 mm	254 mm	20 kg
	4P	321 mm	203 mm	324 mm	25 kg
FRAME 2500 50 / 65 kA	3P	419 mm	354 mm	273 mm	41 kg
	4P	419 mm	354 mm	358 mm	48 kg
FRAME 4000 50 / 65 / 100 kA	3P	419 mm	354 mm	408 mm	59 kg
	4P	419 mm	354 mm	538 mm	76 kg
FRAME 6300 100 kA	3P	419 mm	354 mm	797 mm	118 kg
	4P	419 mm	354 mm	1064 mm	152 kg
Draw-out version					
		Height	Depth	Width	Weight ⁽³⁾
FRAME 1600 50 kA	3P	352 mm	306 mm	282 mm	39 kg
	4P	352 mm	306 mm	352 mm	49 kg
FRAME 2500 50 / 65 kA	3P	465 mm	433 mm	327 mm	77 kg
	4P	465 mm	433 mm	412 mm	94 kg
FRAME 4000 50 / 65 / 100 kA	3P	465 mm	433 mm	425 mm	108 kg
	4P	465 mm	433 mm	555 mm	137 kg
FRAME 6300 100 kA	3P	465 mm	433 mm	804 mm	216kg
	4P	465 mm	433 mm	1064 mm	274 kg

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

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LEGRAND
ADVANTAGE

The overall dimensions of the breaker contribute considerably to an efficient use of the space inside the electrical panel. The constant depth for all the rated currents, for the frames 2500, 4000 and 6300 facilitates configuration of the enclosures and connection of the busbars.

OTHER ELECTRICAL
FEATURES

Rated operational voltage Ue: 690 Vac 50/60 Hz
Rated insulation voltage Ui: 1 000 Vac 50/60 Hz
Rated impulse withstand voltage Uimp: 12 kV
Category of use: B
Ambient temperature: - 25 °C to 70 °C
Humidity: + 55 °C with relative humidity of 95%, conforms to IEC 68-2-30



Precise & user friendly LCD tripping units

Besides their easy mounting and connection, strength and good continuity of operation, 3 types of electronic units allow precise adjustment of different limits for current values and time delay.

The result is an efficient protection against electrical faults while maintaining total discrimination with downstream breakers.

The LCD display lets you monitor the measured current values and informs you on fault adjustment and log (the cause of last trip and maintenance operations).

MP4 LSIg electronic protection unit for DMX³ 2500 to 6300



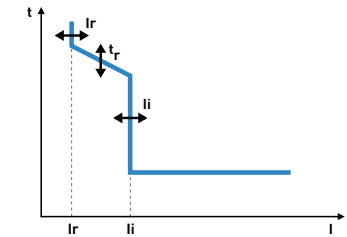
MP4 LI ELECTRONIC PROTECTION UNIT CAT. NOS. 0 281 64 AND 0 288 00



0 288 00

The following settings are adjusted using rotary selector switches:

- Long time delay protection against overloads: I_r
- Long delay protection operation time: t_r
- Instantaneous protection against very high short circuits: I_i
- Neutral protection: I_N



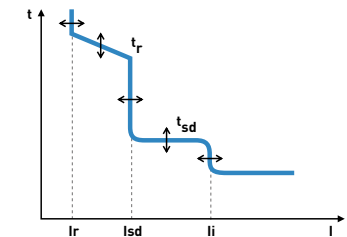
MP4 LSI ELECTRONIC PROTECTION UNIT CAT. NOS. 0 281 65 AND 0 288 01



0 288 01

The following settings are adjusted using rotary selector switches:

- Long time delay protection against overloads: I_r
- Long delay protection operation time: t_r
- Short time delay protection against short circuits: I_{sd}
- Short time delay protection operation time: t_{sd}
- Instantaneous protection against very high short circuits: I_i
- Neutral protection: I_N



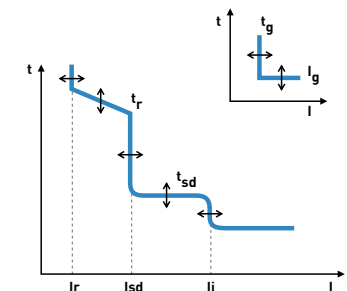
MP4 LSIg ELECTRONIC PROTECTION UNIT CAT. NOS. 0 281 66 AND 0 288 02



0 288 02

The following settings are adjusted using rotary selector switches:

- Long time delay protection against overloads: I_r
- Long delay protection operation time: t_r
- Short time delay protection against short circuits: I_{sd}
- Short time delay protection operation time: t_{sd}
- Instantaneous protection against very high short circuits: I_i
- Earth fault current: I_g
- Time delay on earth fault tripping: t_g
- Neutral protection: I_N



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**LEGRAND
ADVANTAGE**

All protection units of DMX³ 2500 to 6300 are equipped with batteries so you can monitor the parameters even when the breaker is not connected and all data remains stored in memory.



**MORE
INFORMATION**

All DMX³ breakers are factory equipped with any MP4 protection unit LI, LSI or LSIg according to your requirements. You just need to select and indicate the 2 catalogue numbers when placing the order (1 for the breaker and 1 for the tripping unit).

MP6 LSI touch screen protection unit

Colour touch screen

LEDs indicating correct operation, pre-alarm and alarm for overload and temperature

Settings lock

Mini USB port for PC connection

ON button



Innovative & user friendly touch screen tripping units

MP6 electronic protection units are equipped with a colour touch screen, particularly user friendly, thanks to intuitive icon-based navigation system. The colour display provides a clear presentation of the parameters of the installation.

Touch screen protection units integrate all the functions of LCD tripping units and have an advanced measurement function which, in addition to monitoring currents, can also be used to display voltages, active and reactive powers, frequency, power factor, and also energy.

Alarms can be programmed on a number of these parameters: max. voltage, min. voltage, voltage imbalance, max. and min. frequency, etc.

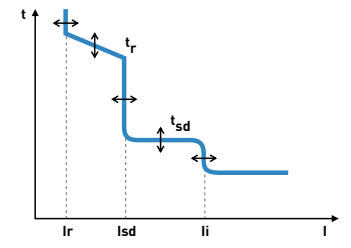
MP6 LSI TOUCH SCREEN PROTECTION UNIT CAT.NO. 0 288 03



Tripping curve preview

The following settings are adjusted using the touch screen:

- Long time delay protection against overloads: **I_r**
- Long delay protection operation time: **t_r**
- Short time delay protection against short circuits: **I_{sd}**
- Short time delay protection operation time: **t_{sd}**
- Instantaneous protection against very high short circuits: **I_i**
- Neutral protection: **I_N**



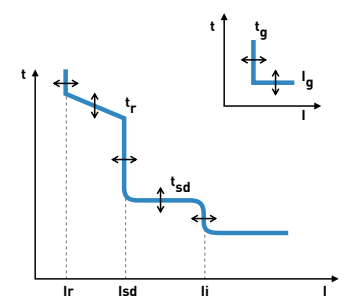
MP6 LSI TOUCH SCREEN PROTECTION UNIT CAT.NO. 0 288 04



Earth fault tripping curve preview

The following settings are adjusted using the touch screen:

- Long time delay protection against overloads: **I_r**
- Long delay protection operation time: **t_r**
- Short time delay protection against short circuits: **I_{sd}**
- Short time delay protection operation time: **t_{sd}**
- Instantaneous protection against very high short circuits: **I_i**
- Earth fault current: **I_g**
- Time delay on earth fault tripping: **t_g**
- Neutral protection: **I_N**



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LEGRAND ADVANTAGE

The icon-based interface of the management software and the innovative touch screen technology used for MP6 tripping units simplify setting and preparing operations of the DMX³ circuit breaker.



MORE INFORMATION

The MP4 and MP6 electronic protection units of the DMX³ ACBs equipped with communication option Cat.No 0 288 05 or 0 281 70 can communicate via an RS-485 port. This port is used for supervising

(remote monitoring and management) the devices in the installation, using the MODBUS protocol. It is therefore possible to control circuit breaker opening and closing, display the electrical parameters and detect all the alarms generated by each device, from a PC. Power Control Station is a software application for PCs allowing to exchange data with the protection unit of the DMX³ through the mini USB port. This software allows to monitor the status of the breaker, display information (firmware and device versions, alarms, measurements, parameters, fault history, settings), update the firmware of the protection unit, generate reports based on the data stored and read by the protection unit, run diagnostic tests.



STARTING MENU



This menu displays the values of I_1 , I_2 , I_3 and I_N as a diagram, the date and the hour, and the alarm icon. If the breaker opens following an electrical fault a specific icon will appear on the upper part of the screen. Pressing this icon will open a new window showing the cause of the last event.

Other possible actions:

- Right arrow icon: access the main menu
- Alarm icon: preview the cause of the alarm in course

[MAIN MENU](#)

The main menu allows accessing different windows for setting different parameters of the breaker or previewing measured values, battery status, tripping history, etc.

The following accesses are possible:

- 1 Setting according to the tripping curves (current and time)
- 2 Access tripping unit settings (luminosity, contrast and sound volume)
- 3 Access to general information of the breaker
- 4 Back to the previous page
- 5 Access measured values menu
- 6 Access archives
- 7 Preview battery charging status

PROTECTIONS SETTING MENU



Vertical arrows allow scrolling between different electrical parameters:

li, lsd, tsd, lr, tr, lg, tg, etc.

Pressing horizontal icons gives access to corresponding windows allowing value settings. Each value can be increased/decreased, validated or suppressed. The values need to be saved into memory at the end of the process, for each setting.

MEASURED VALUES MENU



This window allows previewing of measured values for:

- Currents
- Voltages (Ph/N and Ph/Ph)
- Active and reactive powers
- Power factor (total and per phase)
- Active and reactive energy
- Harmonics (for currents and voltages)

Pressing **I**, **m**, **M** and **avg** icons at the bottom of the window will display respectively: instantaneous, minimum, maximum and average value of electrical parameters.

Innovative & user friendly touch screen tripping units

CONTINUED

MP6 electronic protection units collect all the information in 5 seconds each one easily read via the main menu order to allow an

control.

MP6 electronic protection units collect all the useful information in 5 sections, each one easily reachable via the main menu in order to allow an efficient control.

MP6 electronic protection units have an intuitive graphical interface. All useful information and selected settings are easy to understand and visible at a glance.

For example current values can be visualized on the starting page thanks to a histogram. Different other settings can be simultaneously displayed on the “settings” screen in order to have a global view.



MORE INFORMATION

- The following events and values are registered into memory and can be accessed via specific menu: cause of the last event, event counter, events history with date and hour, alarms history with date and hour

- MP6 tripping units allow following application: logical selectivity, management of non priority loads, contact management (with Cat.No 0 288 12)
- MP6 tripping units allow following alarms: power reverse, current imbalance, maximum and minimum voltage values U1N, U2N, U3N, maximum currents I1, I2, I3, voltage imbalance (phase-neutral), inversed phase rotation, maximum and minimum frequency values.

Every type of accessory is compatible with its own location, in order to avoid any possible mistake.

All control accessories can be easily installed without any special tool and in a very short time. The installation is to be done on the front panel of the air circuit breaker. In that way, the separation between power and control circuits is guaranteed.

SHUNT TRIP

Shunt trips are devices used for the remote instantaneous opening of the air circuit breaker. They are generally controlled through an N/O type contact. The actual offer of shunt trips proposes different supply voltages from 24 V to 480 V compatibles with AC and DC currents. The shunt trips are already equipped with a special fast connector, to be directly inserted into auxiliary contacts block. An auxiliary contact is connected in series with the coil, cutting off its power supply when the main poles are open.



Shunt trip for DMX³ 2500
to 6300

	FOR DMX ³
Size	2500 to 6300
Rated operating voltage Vn	24 V ~ /== 48 V ~ /== 110 - 130 V ~ /== 220 - 250 V ~ /== 415 - 440 V ~
Voltage range (% Vn)	70 to 110
Pick-up consumption (W/VA)	500/500
Pick-up time (ms)	180
Hold consumption (W/VA)	5/5
Opening time (ms)	30
Insulation voltage (kV)	2.5

UNDervoltage Release

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



Undervoltage release for
DMX³ 2500 to 6300

	FOR DMX ³
Size	2500 to 6300
Rated operating voltage Vn	24 V ~ / ~ 48 V ~ / ~ 110 - 130 V ~ / ~ 220 - 250 V ~ / ~ 415 - 440 V ~
Voltage range (% Vn)	85 to 110
Pick-up consumption (W/VA)	500/500
Pick-up time (ms)	180
Hold consumption (W/VA)	5/5
Opening time (ms)	60
Insulation voltage (kV)	2.5

CLOSING COILS

These coils are used for remotely controlling the closing of the power contacts of the circuit breaker. The springs of the circuit breaker are to be loaded prior to the action of the closing coils. They are controlled by an N/O type contact.



Closing coils for DMX³ 2500
to 6300

	FOR DMX ³
Size	2500 to 6300
Rated operating voltage Vn	24 V ~ /== 48 V ~ /== 110 - 130 V ~ /== 220 - 250 V ~ /== 415 - 440 V ~
Voltage range (% Vn)	85 to 110
Pick-up consumption (W/VA)	500/500
Pick-up time (ms)	180
Hold consumption (W/VA)	5/5
Opening time (ms)	50
Insulation voltage (kV)	2.5

[illegible]

**LEGRAND
ADVANTAGE**

Electrical connection is made in no time thanks to the fast connector supplied on all above accessories.



OTHER ELECTRICAL FEATURES

Number of control auxiliaries for DMX³ = 3
Shunt trip: 1
Undervoltage release: 1
Closing coils: 1

MOTOR OPERATORS

Motor operators, are used for remotely reloading the springs of the circuit breaker mechanism immediately after the device closes. The device can thus be re-closed almost immediately after an opening operation.

To motorise a DMX³ it is necessary to add a release coil (undervoltage release or shunt trip) and a closing coil.

If the supply voltage of the controls fails, it is still possible to reload the springs manually. Motor-driven controls have “limit switch” contacts which cut off the power supply of their motor after the springs have been reloaded. Motor operators are easy to mount, with only three screws.



Motor operator for DMX³ 2500 to 6300

Size	FOR DMX ³	
	2500 to 6300	
	50, 65 kA	100 kA
Rated operating voltage V _n	24 V ~/ 48 V ~/ 110 - 130 V ~/ 220 - 250 V ~/ 415 - 440 V ~/ 480 V ~	
Voltage range (% V _n)	85 to 110	
Max. power consumption (W/VA)	180/180	240/240
Max. peak current for about 80 ms	2 to 3 x I _n	
Charging time (s)	5	7
Operating frequency (n°/min)	2	1

SAFETY AND PADLOCKING ACCESSORIES FOR AN INCREASED SECURITY

The DMX³ circuit breakers draw-out types are delivered as standard with safety padlocking shutters preventing access to live terminals. They have a number of other safety devices, such as:

- Key-operated locks:
 - Main contacts open
 - Circuit breaker in draw-out position
- Padlocks for:
 - Main contacts open
 - Contact shutters closed (for draw-out position)
- Door locking in order to prevent the opening of the electrical switchboard door when the contacts of the ACB are closed.



Fixed version equipped with padlocking system



Draw-out version equipped with key-operated locks

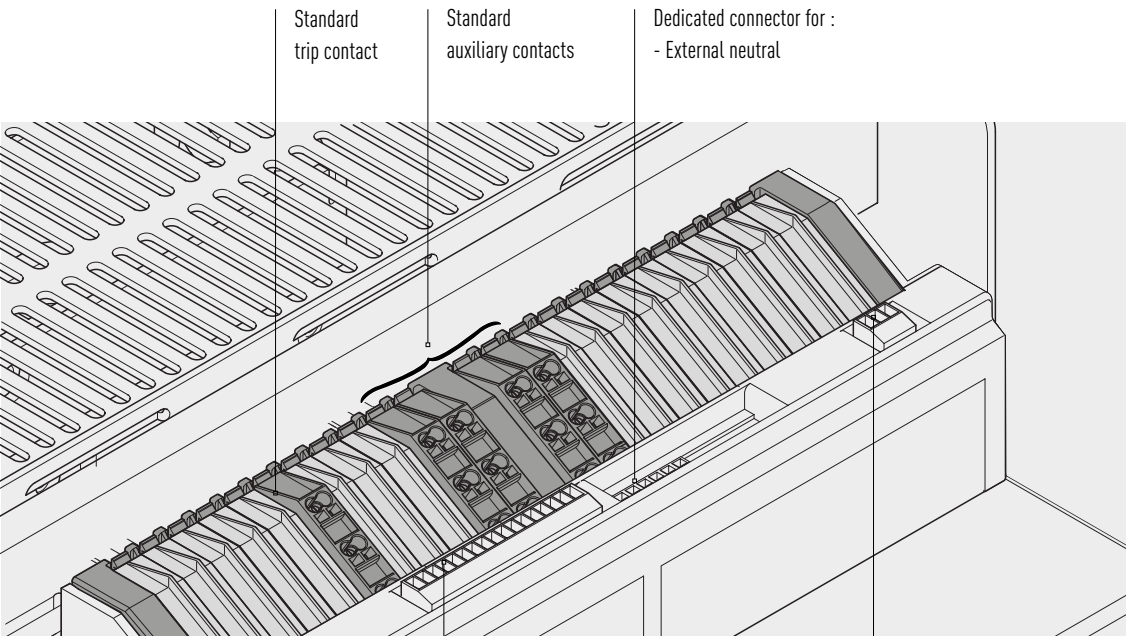
Easy identification of control accessories

Electrical auxiliaries are connected on the front panel on terminal blocks provided for this purpose. Accessories are identified on the front panel.

As the cover has window, it is easy to ascertain, which devices are fitted on the circuit breaker.

FRONT PANEL CONNECTION TERMINAL BLOCK

The terminal block of DMX³ ACBs offers the possibility to connect a trip contact, up to 10 auxiliary contacts (up to 6 contacts for DMX³ 1600) and different other control and signalling functions



Dedicated connector for :
- External auxiliary power supply
- Programmable contact module
- Supervision serial port (if the ACB is equipped with communication option)

Dedicated connector for:
- Local programmable relay (4 A V_{max} 230 V a.c.)



MORE INFORMATION

	DMX ³ 2500	DMX ³ 4000	DMX ³ 6300
External auxiliary power supply	0 288 06		
Programmable contact module	0 288 12		
Communication option	0 288 05		
External neutral	0 288 11	0 288 10	

FIXED VERSION-CHOOSE YOUR CONNECTION ACCESSORIES: 3 POSSIBILITIES

FIXED VERSION: EXAMPLES OF CONNECTIONS

The type of rear terminals can be easily changed according to your needs.

REAR TERMINALS FOR FLAT CONNECTION



Frame 2500: 3P: Cat. N° 0 288 84 4P: Cat. N° 0 288 85	Frame 4000: 3P: Cat. N° 0 288 92 4P: Cat. N° 0 288 93	Frame 6300: 3P: Cat. N° 0 288 92 x 2 4P: Cat. N° 0 288 93 x 2
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REAR TERMINALS FOR VERTICAL CONNECTION

This type of connection uses 2 accessories: the previous rear terminals for flat connection, which must be equipped with the vertical ones.



Frame 1: 3P: Cat. N° 0 288 84 + 0 288 82 4P: Cat. N° 0 288 85 + 0 288 83 (1) For frame 6300 the quantity is multiplied by 2	Frame 2 and 3⁽¹⁾: 3P: Cat. N° 0 288 92 + 0 288 94 4P: Cat. N° 0 288 93 + 0 288 95
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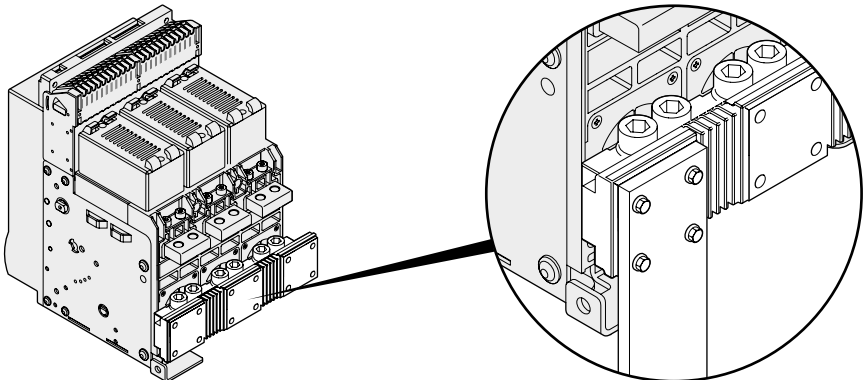
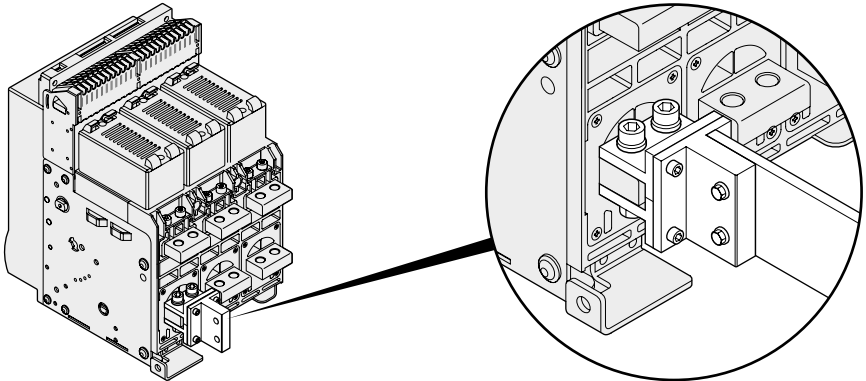
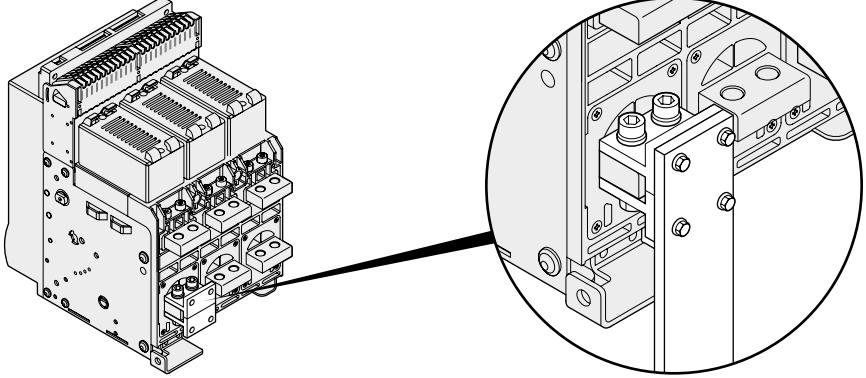
SPREADERS

For any situation requiring a bigger width for a safe connection (i.e. aluminium bus bars).

Frame 2500:
3 types of accessories

		
Flat connection 3P: Cat. N° 0 288 86 4P: Cat. N° 0 288 87	Vertical connection 3P: Cat. N° 0 288 88 4P: Cat. N° 0 288 89	Horizontal connection 3P: Cat. N° 0 288 90 4P: Cat. N° 0 288 91

The fixed version of DMX³ is equipped with rear terminals for horizontal connection with bars. You can change connection type according to your needs.



The breaker is supplied with rear terminals for horizontal connection

Connection:
maximum
adaptability
DMX³ 2500
to 6300



DRAW-OUT VERSION-CHOOSE YOUR CONNECTION ACCESSORIES

Draw-out version of the DMX³ breakers is supplied with rear terminals for flat connection with bars. You can easily transform those terminals into vertical or horizontal type by using the unique reversible connector.



The breaker is supplied with rear terminals for flat connection

2 TYPES OF FIXING

Reversible connector for vertical or horizontal connection.



Frame 2500:

3P: Cat. N° 0 288 96
4P: Cat. N° 0 288 97



Frame 4000:

3P: Cat. N° 0 288 94
4P: Cat. N° 0 288 95

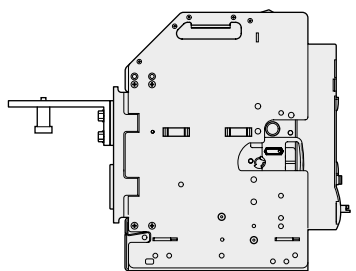
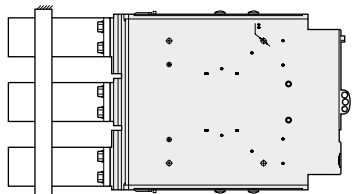
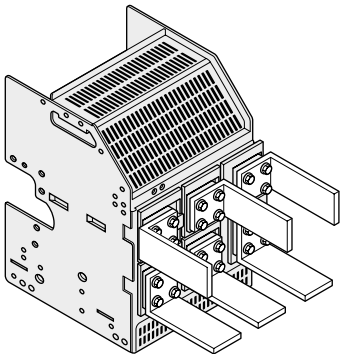
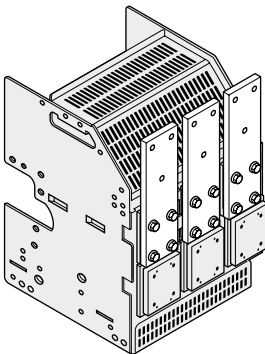
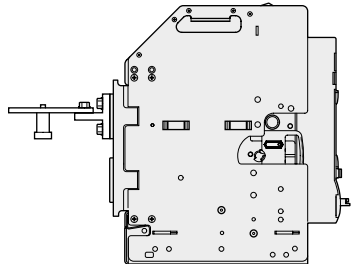
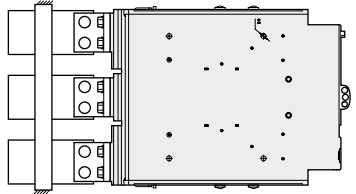
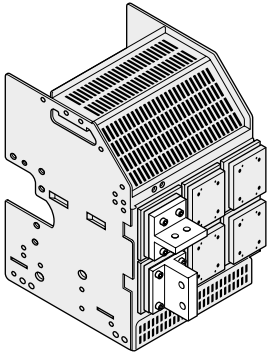
Frame 6300:

3P: Cat. N° 0 288 94 x 2
4P: Cat. N° 0 288 95 x 2

FLAT CONNECTION USING THE REAR TERMINALS OF THE BREAKER

DRAW-OUT VERSION: EXAMPLES OF CONNECTIONS

Draw-out version of the DMX³ breakers is supplied with rear terminals for flat connection with bars. You can easily transform the rear terminals into vertical or horizontal type by using the unique reversible connector.



Connection:
maximum
adaptability
DMX³ 2500
to 6300
CONTINUED

The draw-out version is equipped with rear terminals for flat connection with bars.

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CONNECTIONS: A FEW RECOMMENDATIONS!

- Connections provide the electrical connection of equipment and are also responsible for a considerable proportion of their heat dissipation.
- Connections must never be under-sized.
- Plates or terminals must be used over a maximum area.

- Heat dissipation is encouraged by arranging the bars vertically. If an uneven number of bars is connected, place the higher number of bars on the upper part of the terminal.
- Avoid bars running side by side: this causes poor heat dissipation and vibrations.
- Place spacers between the bars to maintain a distance between them which is at least equivalent to their thickness.

Automatic transfer switches

Stylish ergonomic design

Backlit screen, very easy to read, adjustable brightness and contrast. Menu available in 5 or 8 languages depending on unit model

Clear marking on the front panel for easy identification of the various functions

Touch-sensitive buttons for programming the various operating parameters directly on the control unit

The optical communication port on the front can take a USB or a Wi-Fi connection module, which allows communication with a computer, smartphone or a tablet for programming, diagnostics and data downloading, without having to cut off the power to the electrical panel.

STANDARD UNIT

2 circuit breakers (Cat.No 4 226 80)

CONFIGURABLE UNIT

2 circuit breakers (Cat.No 4 226 82)

Configurable models are fitted with an optical port designed to take communication modules. These modules can be used to configure the control units via a PC, tablet or smartphone, on which the software or Legrand app has already been installed.

USB module

Continuity of service & increased safety

Automatic transfer switches answer the double need of continuity of service and greater safety (security). Traditionally used in hospitals, public buildings, industries with continuous manufacturing

processes, airports and military applications, automatic transfer switches become increasingly required for new applications such as telecommunications and computing treatment or in the management of

energy sources, notably those say "renewable energies". Our range of control units includes 3 different types, depending on the desired service level.

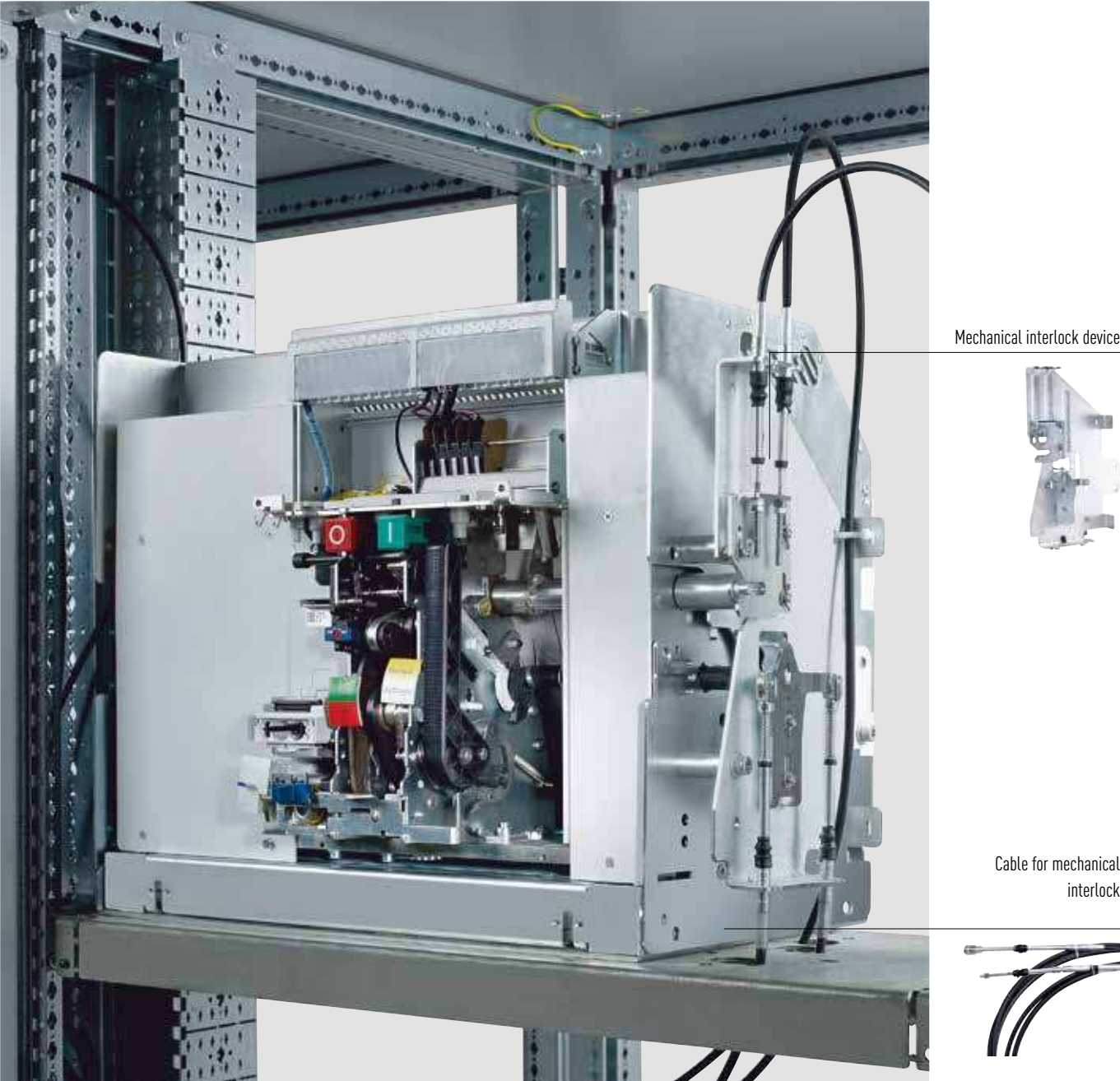
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LEGRAND ADVANTAGE

Thanks to its digital displays and different LEDs is possible to watch permanently the state of the inverter, as well as the presence and the value of the voltage on each power supply.





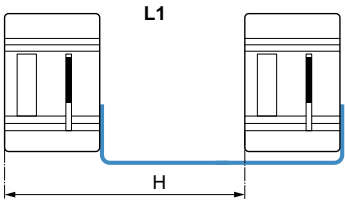
Transfer switching & interlocking

Mechanical interlock is set up using cables and a mechanical interlock device and can interlock 2 or 3 devices, which may be different type in a vertical or horizontal configuration.

The interlock device is mounted on the right-hand side of the air circuit breaker.

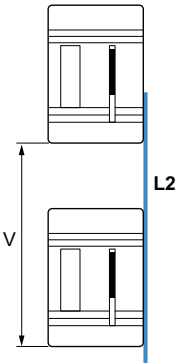
DMX³ 1600

Horizontal configuration



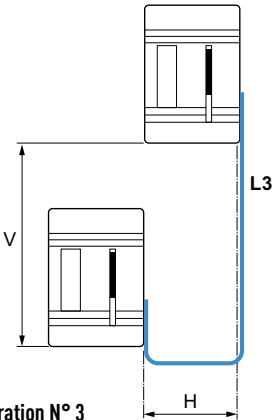
Configuration N° 1
Required cable length:
 $L = 620 + H$

Vertical configuration



Configuration N° 2
Required cable length:
 $L = 950 + V$

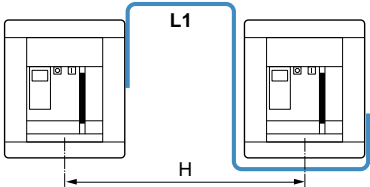
Vertical + Horizontal configuration



Configuration N° 3
Required cable length:
 $L = 620 + V + H$

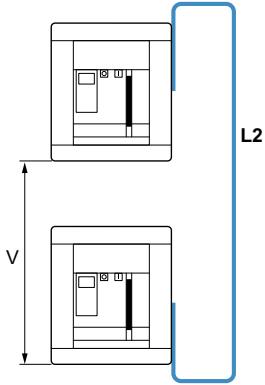
DMX³ 2500 / 4000 / 6300

Horizontal configuration



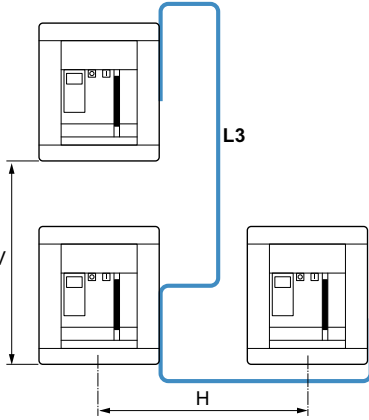
Configuration N° 1
Required cable length:
 $L = 1430 + H$

Vertical configuration



Configuration N° 2
Required cable length:
 $L = 1570 + V$

Vertical + Horizontal configuration



Configuration N° 3
Required cable length:
 $L = 1430 + V + H$

EXAMPLES OF CABLE INTERLOCK SELECTION FOR 2 OR 3 AIR CIRCUIT BREAKERS

Distance between air circuit breakers		DMX ³ 2500 / 4000 / 6300 (3 ACBs) Configuration N° 3: $L = 1430 + H + V$			
		Horizontal (mm)			
		725	1 000	1 450	2 000
Vertical (mm)	800	0 289 21	0 289 22	0 289 23	0 289 24
	1 000	0 289 22	0 289 22	0 289 23	0 289 24
	1 600	0 289 23	0 289 24	0 289 24	0 289 25
	2 000	0 289 24	0 289 24	0 289 25	0 289 25

CABLE LENGHT

Cat.Nos	0 289 17	0 289 18	0 289 20	0 289 21	0 289 22	0 289 23	0 289 24	0 289 25
Length (mm)	1 000	1 500	2 600	3 000	3 600	4 000	4 600	5 600

an XL³ S 4000 enclosure



DMX³ 6300 inside
an XL³ 6300 enclosure

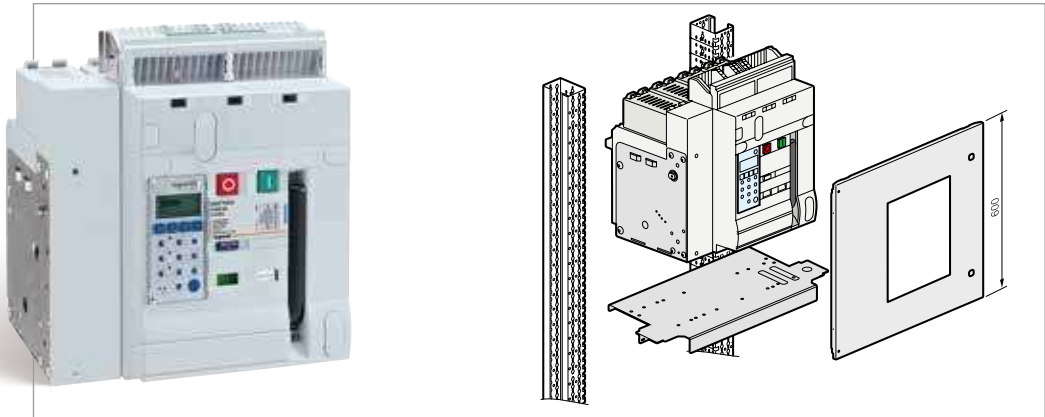
Be free to choose XL³ fully adaptable enclosure

It is very easy to create the configuration you want thanks to the different available sizes of XL³ S 4000 or XL³ 4000 and 6300 enclosures.

A full range of accessories, such as dedicated fixing plates and faceplates, facilitates the integration of DMX³ devices inside the enclosures.

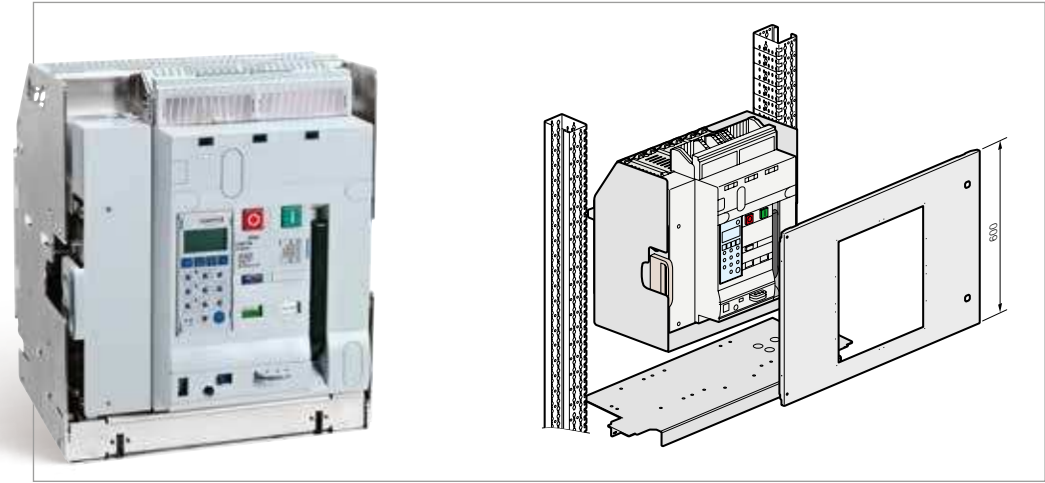
XLPro³ software let you choose the optimum configuration between XL³ and XL³ S, according to the size and the requirements of your installation.

DMX³ FIXED VERSION



DMX³ size 2500

DMX³ DRAW-OUT VERSION



DMX³ size 2500

+++++
+++++



MOUNTING PRINCIPLE

In XL³ and XL³ S, the DMX³ devices and the associated busbars are arranged according to an identical principle for power ratings up to 4000 A, that is, the possibility of mounting two devices per enclosure.

The installation height of DMX³ units is always 600 mm whatever the type and size of the device. When 2 DMX³ devices are installed in the same cell, this leaves at least a useful 600 mm for running the busbars.

Air circuit breakers DMX³ 2500 and 4000
from 800 to 4000 A



Dimensions **p. 42-45**
Electrical characteristics **p. 47-49**

Automatic air circuit breakers must be equipped with electronic protection unit (p. 161), imperatively ordered together for factory assembly
Please ask for DMX³ order form
Conform to IEC 60947-2

Pack	Cat.Nos		Fixed version	Pack	Cat.Nos		Draw-out version
			Supplied with - 4 auxiliary contacts: NO/NC - rear terminals for horizontal connection with bars - door sealing DMX³ - N 2500 Breaking capacity Icu 50 kA (415 V~)				Supplied with: - 4 auxiliary contacts: NO/NC - draw-out base and kit - flat rear terminals for connection with bars - door sealing DMX³ - N 2500 Breaking capacity Icu 50 kA (415 VA)
	Frame 2500		In(A)		Frame 2500		In(A)
	3P	4P			3P	4P	
1	0 286 21	0 286 31	800	1	0 287 21	0 287 31	800
1	0 286 22	0 286 32	1000	1	0 287 22	0 287 32	1000
1	0 286 23	0 286 33	1250	1	0 287 23	0 287 33	1250
1	0 286 24	0 286 34	1600	1	0 287 24	0 287 34	1600
1	0 286 25	0 286 35	2000	1	0 287 25	0 287 35	2000
1	0 286 26	0 286 36	2500	1	0 287 26	0 287 36	2500
			DMX³ - H 2500 Breaking capacity Icu 65 kA (415 V~)				DMX³ - H 2500 Breaking capacity Icu 65 kA (415 VA)
	Frame 2500		In(A)		Frame 2500		In(A)
	3P	4P			3P	4P	
1	0 286 41	0 286 51	800	1	0 287 41	0 287 51	800
1	0 286 42	0 286 52	1000	1	0 287 42	0 287 52	1000
1	0 286 43	0 286 53	1250	1	0 287 43	0 287 53	1250
1	0 286 44	0 286 54	1600	1	0 287 44	0 287 54	1600
1	0 286 45	0 286 55	2000	1	0 287 45	0 287 55	2000
1	0 286 46	0 286 56	2500	1	0 287 46	0 287 56	2500
			DMX³ - L 2500 Breaking capacity Icu 100 kA (415 V~)				DMX³ - L 2500 Breaking capacity Icu 100 kA (415 VA)
	Frame 4000		In(A)		Frame 4000		In(A)
	3P	4P			3P	4P	
1	0 286 61	0 286 71	800	1	0 287 61	0 287 71	800
1	0 286 62	0 286 72	1000	1	0 287 62	0 287 72	1000
1	0 286 63	0 286 73	1250	1	0 287 63	0 287 73	1250
1	0 286 64	0 286 74	1600	1	0 287 64	0 287 74	1600
1	0 286 65	0 286 75	2000	1	0 287 65	0 287 75	2000
1	0 286 66	0 286 76	2500	1	0 287 66	0 287 76	2500
			DMX³ - N 4000 Breaking capacity Icu 50 kA (415 V~)				DMX³ - N 4000 Breaking capacity Icu 50 kA (415 VA)
	Frame 4000		In(A)		Frame 4000		In(A)
	3P	4P			3P	4P	
1	0 286 27	0 286 37	3200	1	0 287 27	0 287 37	3200
1	0 286 28	0 286 38	4000	1	0 287 28	0 287 38	4000
			DMX³ - H 4000 Breaking capacity Icu 65 kA (415 V~)				DMX³ - H 4000 Breaking capacity Icu 65 kA (415 VA)
	Frame 4000		In(A)		Frame 4000		In(A)
	3P	4P			3P	4P	
1	0 286 47	0 286 57	3200	1	0 287 47	0 287 57	3200
1	0 286 48	0 286 58	4000	1	0 287 48	0 287 58	4000
			DMX³ - L 4000 Breaking capacity Icu 100 kA (415 V~)				DMX³ - L 4000 Breaking capacity Icu 100 kA (415 VA)
	Frame 4000		In(A)		Frame 4000		In(A)
	3P	4P			3P	4P	
1	0 286 67	0 286 77	3200	1	0 287 67	0 287 77	3200
1	0 286 68	0 286 78	4000	1	0 287 68	0 287 78	4000

Air circuit breakers DMX³ 6300
5000 and 6300 A



Dimensions **p. 46**
Electrical characteristics **p. 47-49**

Automatic air circuit breakers must be equipped with electronic protection unit, imperatively ordered together for factory assembly
Please ask for DMX³ order form
Conform to IEC 60947-2

Pack	Cat.Nos		Fixed version
			Supplied with - 4 auxiliary contacts: NO/NC - rear terminals for horizontal connection with bars - door sealing DMX³ - L 6300 Breaking capacity Icu 100 kA (415 V~)
	Frame 6300		In(A)
	3P	4P	
1	0 289 50	0 289 60	5000
1	0 289 51	0 289 61	6300

	Frame 6300		Draw-out version
			Supplied with: - 4 auxiliary contacts: NO/NC - draw-out base and kit - flat rear terminals for connection with bars - door sealing DMX³ - L 6300 Breaking capacity Icu 100 kA (415 V~)
	3P	4P	In(A)
1	0 289 52	0 289 62	5000
1	0 289 53	0 289 63	6300

Electronic protection units for DMX³ 2500,
4000 and 6300



Settings and curves **p. 47**

DMX³ 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
All protection units are equipped with batteries for powering in case of mains fault or when the breaker is open or not connected

Pack	Cat.Nos	MP4 protection units with LCD screen
		Integrated LCD screen for displaying electrical values, settings and log Adjustment via selector switches LI protection unit Adjustment of: li, lr, tr
1	0 288 00	
		LSI protection unit Adjustment of: Isd, tsd, lr, tr and li
1	0 288 01	
		LSIg protection unit Adjustment of: Isd, tsd, lr, tr, li, lg and tg
1	0 288 02	
		MP6 touch screen protection units Measure and display instantaneous, maximum and average values of different electrical values and protection conditions Fault signalling and log LSI protection unit Adjustment of: Isd, tsd, lr, tr and li LSIg protection unit Adjustment of: Isd, tsd, lr, tr, li, lg and tg
1	0 288 03	
1	0 288 04	
		Accessories for electronic protection units Communication option for DMX ³ electronic protection units 24 V DC external auxiliary power supply External neutral for DMX ³ 6300 External neutral for DMX ³ 2500 and 4000 Module programmable output
1	0 288 05 ¹	
1	0 288 06	
1	0 288 10 ¹	
1	0 288 11 ¹	
1	0 288 12 ¹	

1: Optional accessories, to be ordered when ordering electronic protection unit and DMX³ air circuit breakers for factory assembly

Trip free switches DMX³-I
from 1250 to 6300 A



Dimensions p. 42-46

Conform to IEC 60947-3

Pack	Cat.Nos		Fixed version
1 1 1 1	Frame 2500		Supplied with: - 4 auxiliary contacts: NO/NC - flat rear terminals for connection with bars - door sealing DMX³-I 2500 In(A) 1250 1600 2000 2500
	3P	4P	
	0 286 83	0 286 93	
	0 286 84	0 286 94	
	0 286 85	0 286 95	
1 1	Frame 4000		DMX³-I 4000 In(A) 3200 4000
	3P	4P	
	0 286 87	0 286 97	
1	Frame 6300		DMX³-I 6300 In(A) 6300
	3P	4P	
1	0 289 70	0 289 71	

1 1 1 1	Frame 2500		Supplied with: - 4 auxiliary contacts: NO/NC - draw-out base and kit - flat rear terminals for connection with bars - door sealing DMX³-I 2500 In(A) 1250 1600 2000 2500
	3P	4P	
	0 287 83	0 287 93	
	0 287 84	0 287 94	
	0 287 85	0 287 95	
1 1	Frame 4000		DMX³-I 4000 In(A) 3200 4000
	3P	4P	
	0 287 87	0 287 97	
1	Frame 6300		DMX³-I 6300 In(A) 6300
	3P	4P	
1	0 289 77	0 289 78	

Trip free switches DMX³-I
from 1250 to 6300 A

Technical characteristics				
Trip free switch DMX ³ -I		2500	4000	6300
Frame		2500	4000	6300
Rating In (A)		1250 1600 2000 2500	3200 4000	6300
Rated insulation voltage Ui (V)		1000	1000	1000
Rated impulse withstand voltage Uimp (kV)		12	12	12
Rated operational voltage (50/60Hz) Ue (V)		690	690	690
Isolation behaviour		Yes	Yes	Yes
Short-circuit making capacity Icm (kA)	230 V~	143	220	220
	415 V~	143	220	220
	500 V~	143	220	220
	600 V~	132	165	165
	690 V~	121	143	143
Short time withstand current Icw (kA) for t = 1 s	230 V~	65	85	100
	415 V~	65	85	100
	500 V~	65	85	100
	600 V~	60	75	75
	690 V~	55	65	65
Endurance (cycles) with Maintenance	mechanical	20000	20000	10000
	mechanical	10000	10000	10000
Endurance (cycles) without Maintenance	Electrical	10000	10000	5000

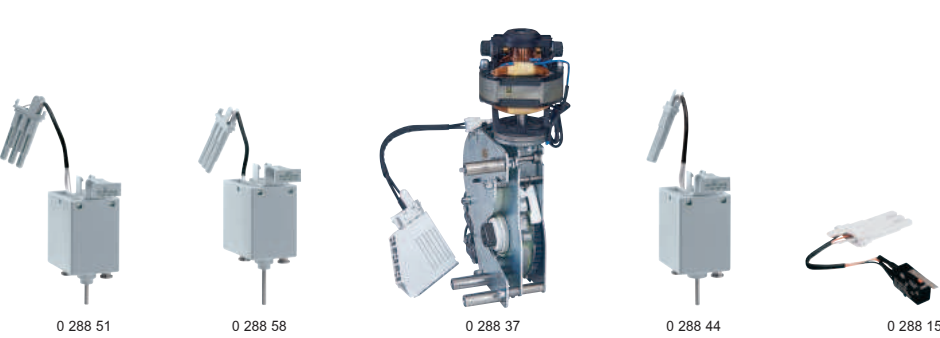
Temperature derating

	Temperature									
	40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX ³ -I 2500	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	1960	0.98	1920	0.96	1880	0.94
	2500	1	2500	1	2350	0.94	2250	0.9	2150	0.86
DMX ³ -I 4000	3200	1	3200	1	3200	1	3136	0.98	3008	0.94
	4000	1	4000	1	3680	0.92	3440	0.86	3120	0.78
DMX ³ -I 6300	6300	1	6300	1	6048	0.96	5796	0.92	5544	0.88

Draw-out version

	Temperature									
	40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX ³ -I 2500	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	1960	0.98	1920	0.96	1875	0.94
	2500	1	2400	0.96	2250	0.9	2100	0.84	1950	0.78
DMX ³ -I 4000	3200	1	3200	1	3200	1	3072	0.96	2880	0.9
	4000	1	3760	0.94	3440	0.86	3200	0.8	2960	0.74
DMX ³ -I 6300	6300	1	6174	0.98	5985	0.95	5796	0.92	5292	0.84

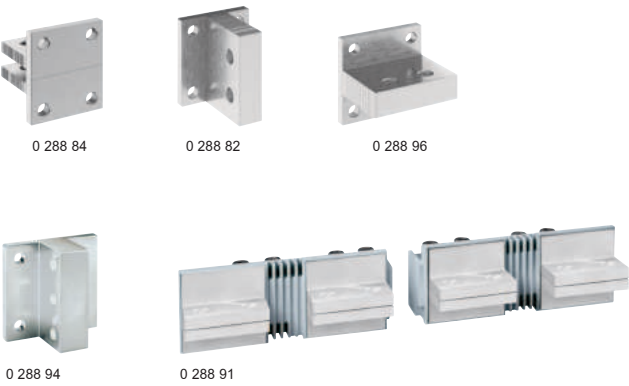
Auxiliaries and accessories for DMX³ 2500, 4000 and 6300



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

Pack	Cat.Nos		Locking
1	0 288 30		Key locking in "open" position Lock and star key N° HBA90GPS6149 - to be fitted on the frame Cat.No 0 288 28 Lock and flat key N° ABA90GEL6149 - to be fitted on the frame Cat.No 0 288 28 2 hole support frame for locks Cat.Nos 0 288 30/31 Set of 5 key barrels with flat key Key locking in the draw-out position Mounting of the lock on the base Lock and star key N° HBA90GPS6149 Lock and flat key N° ABA90GEL6149 Door locking Prevents opening of the door with the circuit breaker closed Left-hand and right-hand side mounting Padlocks in "open" position Padlocking system for ACB (padlock not supplied) Padlock for buttons Padlocking system for shutters (padlock not supplied)
1	0 288 31		
1	0 288 28		
1	0 288 29		
1	0 288 32		
1	0 288 33		Equipment for conversion of a fixed device into draw-out device Bases for draw-out device For DMX ³ /DMX ³ -I frame 2500 For DMX ³ /DMX ³ -I frame 4000 For DMX ³ /DMX ³ -I frame 6300 Transformation kit for draw-out version For DMX ³ /DMX ³ -I frame 2500 For DMX ³ /DMX ³ -I frame 4000 For DMX ³ /DMX ³ -I frame 6300
1	0 288 20		
1	0 288 21		
1	0 288 24		
1	0 288 26		
			Accessories Rating mis-insertion device Prevents the insertion of a draw-out circuit breaker in an incompatible base Operations counter Counts total number of operation cycles of the device Contact "ready to close" with charged springs Additional signalling contact Lifting plate

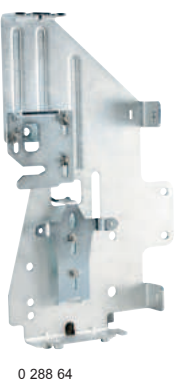
Rear terminals for DMX³ 2500, 4000 and 6300



Dimensions p. 42-46

Pack	Cat.Nos		Rear terminals
1	3P 0 288 84	4P 0 288 85	For DMX³ frame 2500 fixed version For flat connection with bars To be fixed onto horizontal rear terminals of the circuit breaker For vertical connection with bars Those terminals are used in order to transform a flat connection into a vertical one To be fixed onto Cat.Nos 0 288 84/85 according to the number of poles For DMX³ frame 2500 draw-out version For vertical or horizontal connection with bars To be fixed onto plate rear terminals of the circuit breaker For DMX³ frame 4000 and 6300 fixed version For flat connection with bars To be fixed onto horizontal rear terminals of the circuit breaker 2 sets are required for frame 6300 For DMX³ frame 4000 and 6300 fixed or draw-out version On DMX ³ 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 ³ 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
	0 288 82	0 288 83	
	0 288 96	0 288 97	
1	0 288 92	0 288 93	
1	0 288 94	0 288 95	
1	3P 0 288 86	4P 0 288 87	Spreaders for DMX³ frame 2500 fixed version To be fixed onto horizontal rear terminals of the circuit breaker For flat connection with bars For vertical connection with bars For horizontal connection with bars
	0 288 88	0 288 89	
	0 288 90	0 288 91	
1	N 0 288 98	4P 0 288 99	Insulation shields For fixed version Insulation shields for DMX ³ /DMX ³ -I frames 2500 / 4000 / 6300 For draw-out version Insulation shields for DMX ³ /DMX ³ -I frames 2500 / 4000 / 6300
		0 288 19	

Equipment for DMX³ 2500, 4000 and 6300 transfer switches



Technical characteristics p. 50

Pack	Cat.Nos		Equipment for transfer switches
1	0 288 64	0 288 65	The mechanical interlock is set up using cables and can interlock 2 or 3 devices, which may be different type in a vertical or horizontal configuration The interlock unit is mounted on the right-hand side of the device Cable interlock to be ordered separately (cable length to be specified according to every configuration - see below) Interlock for DMX ³ frame 2500 Interlock for DMX ³ frame 4000 Interlock for DMX ³ frame 6300
1	0 289 17	0 289 18	Cable interlock Length 1000 mm 1500 mm 2600 mm 3000 mm 3600 mm 4000 mm 4600 mm 5600 mm

Automatic transfer switch control units



Technical characteristics p. 50
Configuration software see e-catalogue

They can control transfer switching between two sources, manage generator start/stop, control single phase, two-phase and three-phase networks, control phase-phase and phase-neutral voltages
For DPX³ and DMX³ circuit breakers and CTX³ contactors

Pack	Cat.Nos	Automatic transfer switch control units
1	4 226 80	For standard management of 2 circuit breakers 6 programmable digital inputs and 6 programmable relay outputs Digital display Power supply: 12...48 V=
1	4 226 82 ¹	IP54 For advanced management of 2 circuit breakers 6 programmable digital inputs and 7 programmable relay outputs Can be equipped with maximum 2 plug-in modules between: - extension modules Cat.No 4 226 90/91/92 - opto-isolated RS485 communication interface Cat.No 4 226 89 LCD display IR communication port on the front panel for connection of USB or WiFi modules Cat.No 4 226 87/88 Can be configured with the help of front panel touch keys or of the Legrand dedicated software Power supply: 12-24 V= ; 110-240 V~ IP40
1	4 226 83 ¹	For advanced management of 3 circuit breakers 8 programmable digital inputs and 7 programmable relay outputs Can be equipped with maximum 3 plug-in extension modules between Cat.No 4 226 90/91/92 Integrated opto-isolated RS485 communication interface LCD display IR communication port on the front panel for connection of USB or WiFi modules Cat.No 4 226 87/88 Can be configured with the help of front panel touch keys or of the Legrand dedicated software Power supply: 12-24-48 V= ; 110-240 V~ IP65

Pack	Cat.Nos	Dual power supply selector
1	4 226 86	Dual power supply selector measures and controls two supply voltages at its inputs (single phase, 230 V~) and selects the most adapted voltage for auxiliary circuits supply Equipped with 1 alarm contact, if no supply voltage can be selected within the limits
1	4 226 89	Plug-in modules Opto-isolated RS485 interface 4 opto-isolated static outputs 2 relay outputs, rated 5 A 250 V~ 2 opto-isolated digital inputs and 2 relay outputs rated 5 A 250 V~
1	4 226 90	
1	4 226 91	
1	4 226 92	
1	4 226 87 ¹	Communication accessories These communication devices can be used to connect Alptec 8 and Alptec 3.2/5.2/8.2 power factor controllers and automatic transfer switch controllers to a computer; smartphone or tablet For programming, downloading data, diagnostics and upgrading the firmware USB front connector Computer connection cable with USB connector The computer identifies the connection as a standard USB connection. There is no need to switch off the controller power supply

1: Configuration software available for download via E-catalogue

Transfer switching technical guide available for download on www.docexport.legrand.com



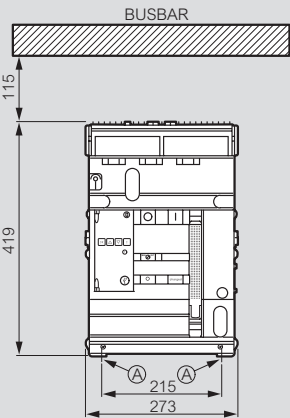
DMX³ 2500 and DMX³-I 2500 - frame 2500

dimensions

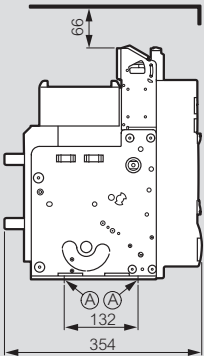
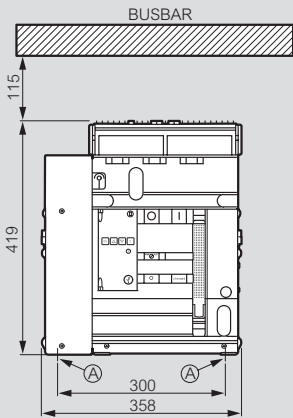
Fixed version - frame 2500

Overall dimensions

3P version

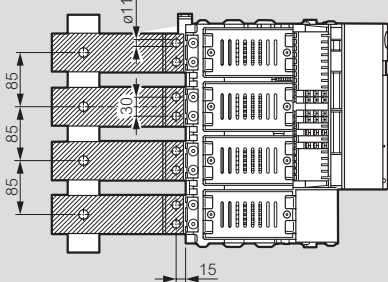
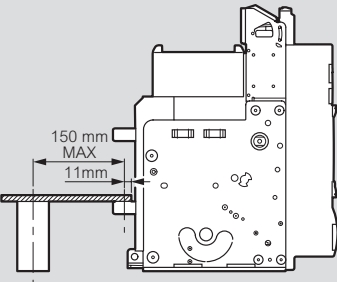


4P version



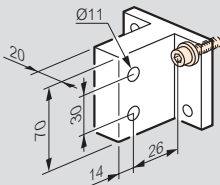
A = fixing point on plate of enclosure

Connection principle



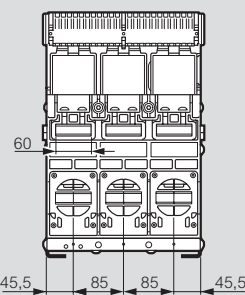
Rear terminals for vertical connection with bars

Cat.Nos 0 288 82/83

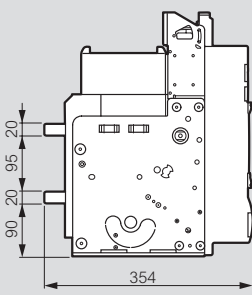
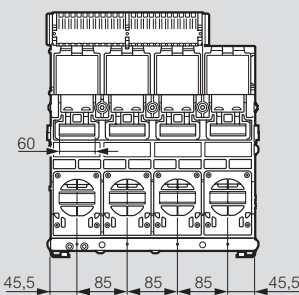


Rear terminals for horizontal connection with bars

3P version

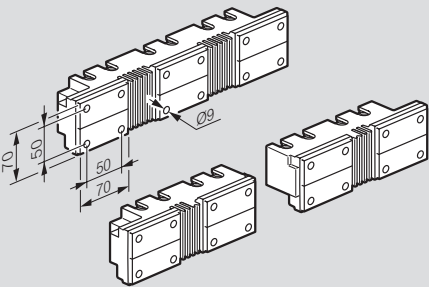


4P version



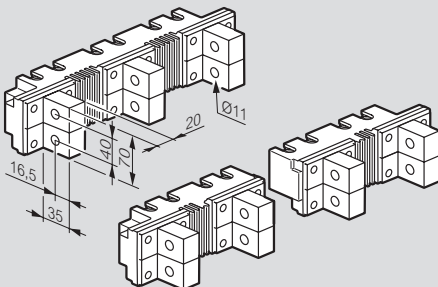
Spreaders for flat connection with bars

Cat.Nos 0 288 86/87



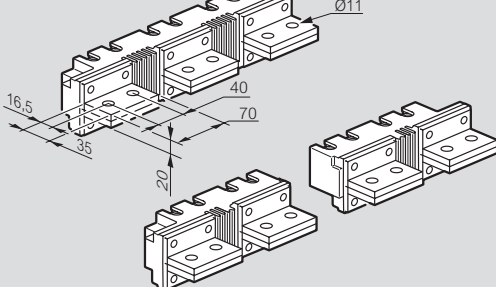
Spreaders for vertical connection with bars

Cat.Nos 0 288 88/89



Spreaders for horizontal connection with bars

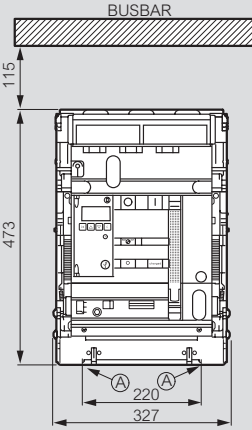
Cat.Nos 0 288 90/91



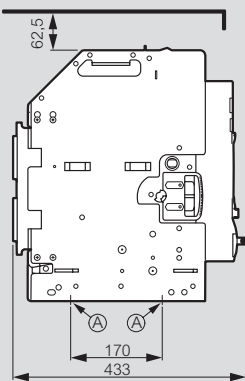
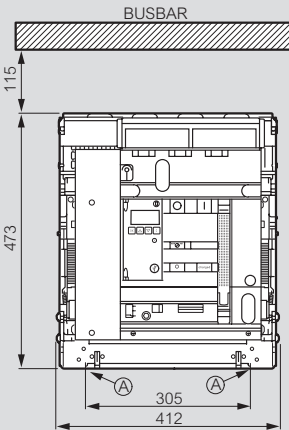
Draw-out version - frame 2500

Overall dimensions

3P version



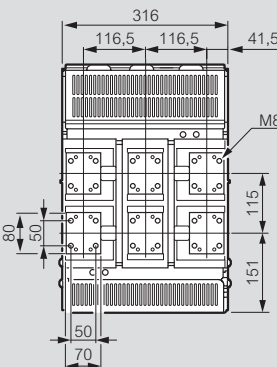
4P version



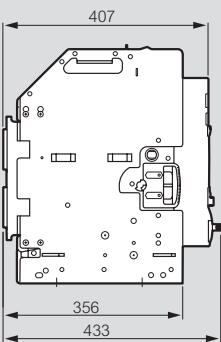
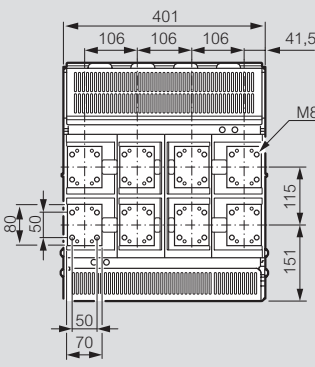
A = fixing point on plate of enclosure

Rear terminals for flat connection with bars

3P version

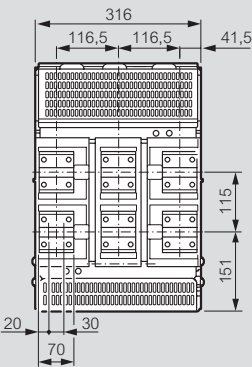


4P version

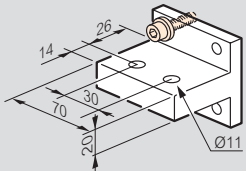
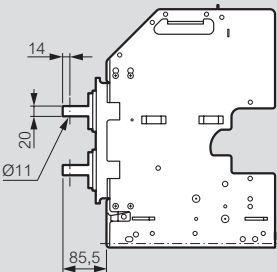
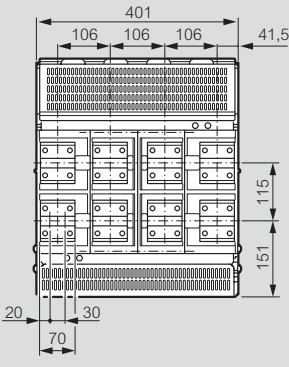


Rear terminals for horizontal connection with bars - Cat.Nos 0 288 96/97

3P version

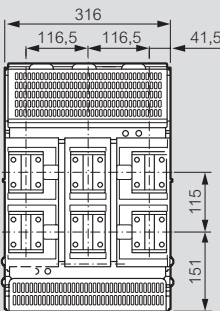


4P version

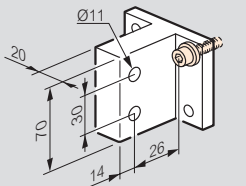
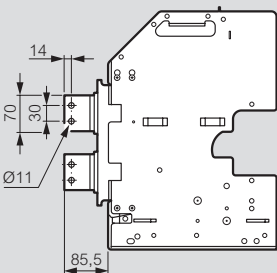
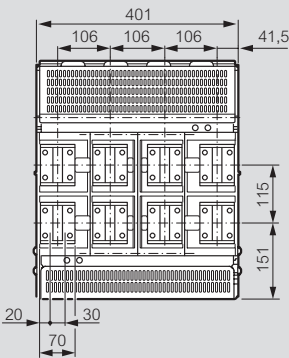


Rear terminals for vertical connection with bars - Cat.Nos 0 288 96/97

3P version



4P version

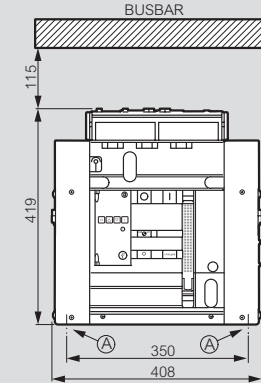


DMX³ 2500, DMX³-I 2500, DMX³ 4000 and DMX³-I 4000 - frame 4000

dimensions

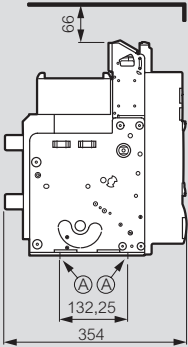
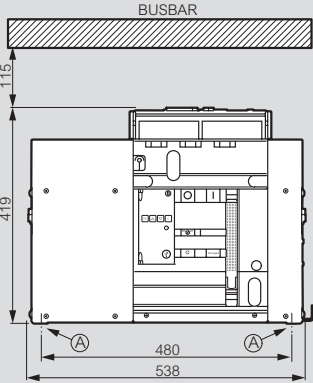
Fixed version - frame 4000

Overall dimensions
3P version

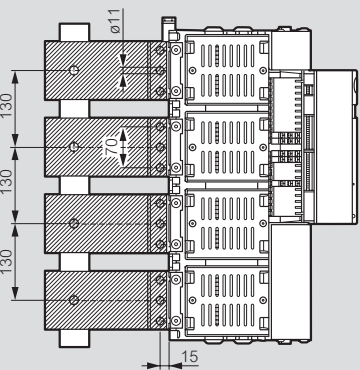
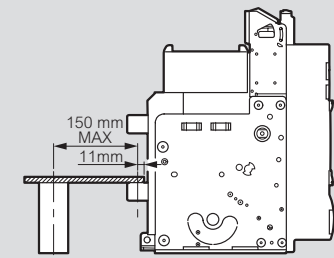


A = fixing point on plate of enclosure

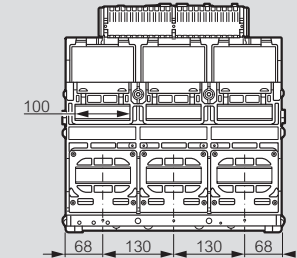
4P version



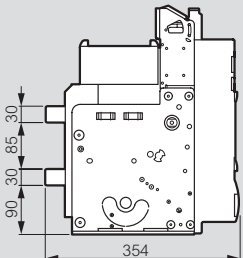
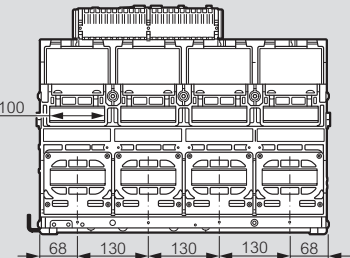
Connection principle



Rear terminals
3P version

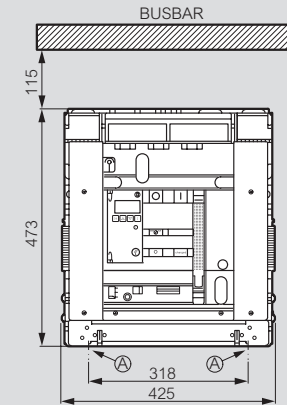


4P version



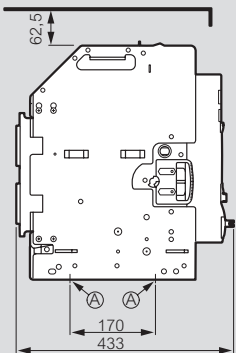
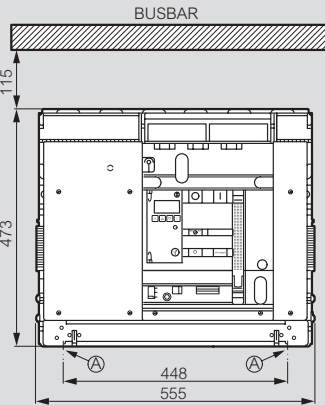
Draw-out version - frame 4000

Overall dimensions
3P version



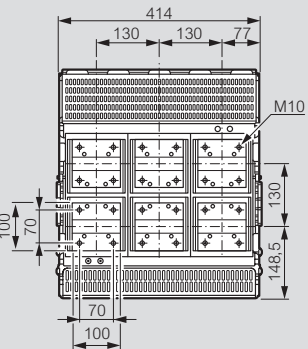
A = fixing point on plate of enclosure

4P version

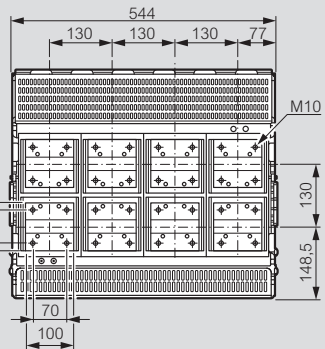


Draw-out version - frame 4000 (continued)

Rear terminals for flat connection with bars
3P version

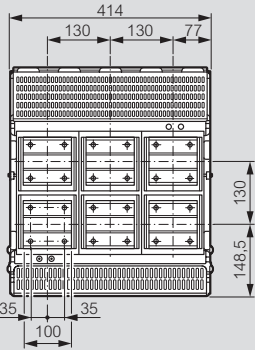


4P version

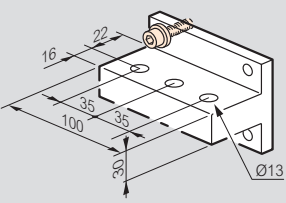
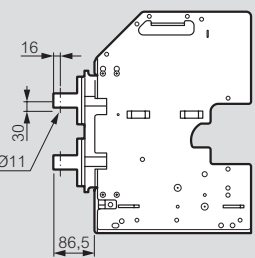
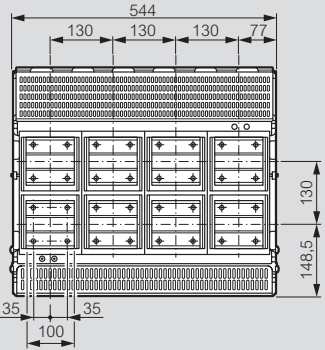


Rear terminals for horizontal connection with bars
Cat.Nos 0 288 92/93

3P version

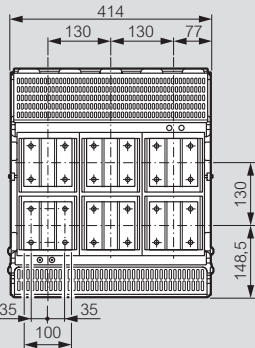


4P version

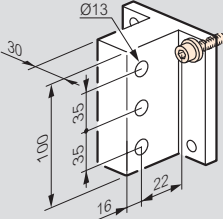
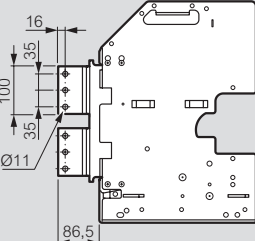
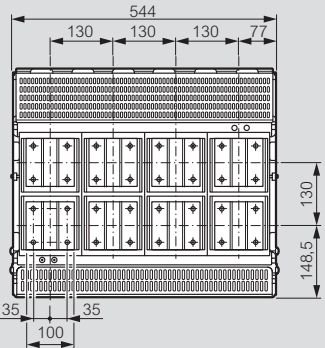


Rear terminals for vertical connection with bars
Cat.Nos 0 288 92/93

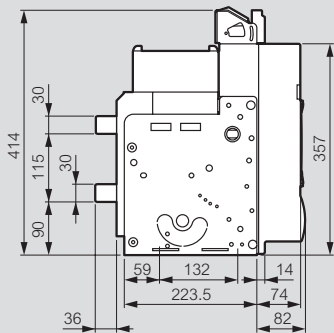
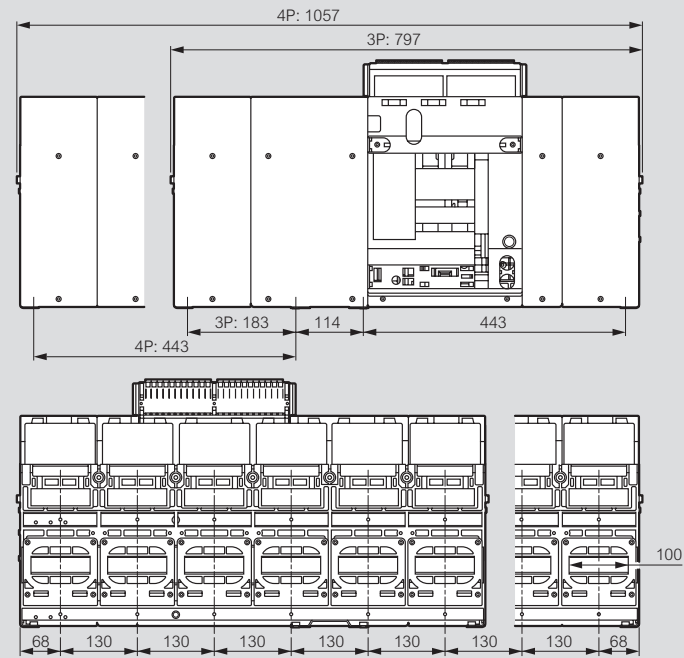
3P version



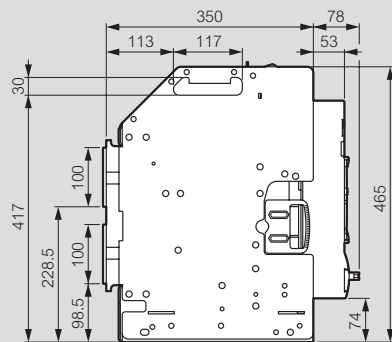
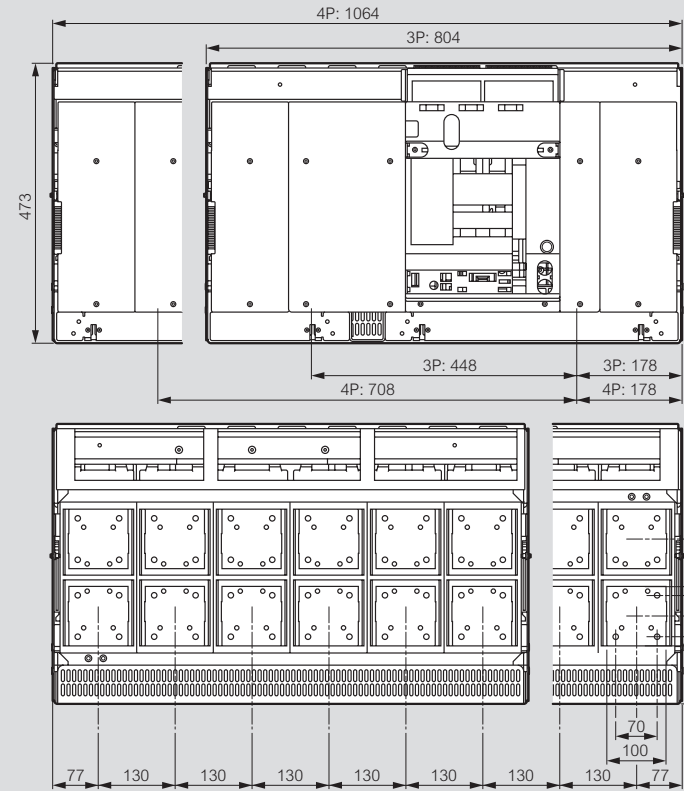
4P version



Fixed version - frame 6300

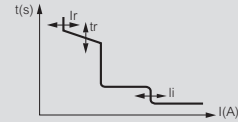


Draw-out version - frame 6300



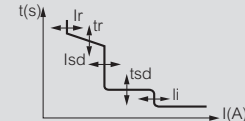
Settings of the electronic protection units

MP4 LI
I_r, t_r, I_i, adjustment on front panel



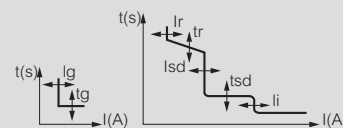
- **Long time delay protection against overloads**
I_r from 0.4 to 1 x I_n (6 + 6 steps) on two selectors
(0.4 œ 0.9, by steps of 0.1 and 0.0 œ 0.1, by steps of 0.02)
- **Long delay protection operation time**
t_r - at 6 x I_r (4 + 4 steps)
t_r = 5-10-20-30 s (MEM ON) 30-20-10-5 s (MEM OFF)
- **Short delay protection against short-circuits**
Fixed threshold:
I_{sd} = 10 x I_r
t_{sd} = 1s
- **Instantaneous protection against very high short circuits**
I_i from 2 to 15 x I_n or I_{cw} (9 steps) I_i = 2-3-4-5-6-8-10-12-15 x I_n or I_{cw}
- **Neutral protection:** I_n = OFF - 50% - 100% - 100%

MP4 LSI
I_r, t_r, I_{sd}, t_{sd}, I_i adjustment on front panel



- **Long time delay protection against overloads**
I_r from 0.4 to 1 x I_n (6 + 6 steps) on two selectors (0.4 œ 0.9, by steps of 0.1 and 0.0 œ 0.1, by steps of 0.02)
- **Long delay protection operation time**
t_r - at 6 x I_r (4 + 4 steps) t_r = 5-10-20-30 s (MEM ON) 30-20-10-5 s (MEM OFF)
- **Short time delay protection against short circuits**
I_{sd} from 1.5 to 10 x I_r (9 steps) I_{sd} = 1.5-2-2.5-3-4-5-6-8-10 x I_r
- **Short time delay protection operation time**
t_{sd} from 0 to 0.3 s (4 + 4 steps) t_{sd} = 0-0.1-0.2-0.3 s (t=cost), 0.3-0.2-0.1-0.01 s (I²t=cost)
- **Instantaneous protection against very high short circuits**
I_i from 2 to 15 x I_n or I_{cw} (9 steps) I_i=off-2-3-4-6-8-10-12-15 x I_n or I_{cw}
- **Neutral protection:** I_n = OFF - 50% - 100% - 100%

MP4 LSIg
I_r, t_r, I_i, I_g, t_g, I_{sd}, t_{sd}, adjustment on front panel



- **Long time delay protection against overloads**
I_r from 0.4 to 1 x I_n (6 +6 steps) on two selectors
(0.4 œ 0.9, by steps of 0.1 and 0.0 œ 0.1, by steps of 0.02)
- **Long delay protection operation time**
t_r - at 6 x I_r (4 + 4 steps) t_r = 5-10-20-30 s (MEM ON)
30-20-10-5 s (MEM OFF)
- **Short time delay protection against short circuits**
I_{sd} from 1.5 to 10 x I_r (9 steps) I_{sd} = 1.5-2-2.5-3-4-5-6-8-10 x I_r
- **Short time delay protection operation time**
t_{sd} from 0 to 0.3 s (4 + 4 steps) t_{sd} = 0-0.1-0.2-0.3 s (t=const), 0.3-0.2-0.1-0.001 s (I²t=const)
- **Instantaneous protection against very high short circuits**
I_i from 2 to 15 x I_n or I_{cw} (9 steps) I_i = 2-3-4-6-8-10-12-15 x I_n or I_{cw}
- **Earth fault current**
I_g from 0.2 to 1 x I_n (9 steps) I_g = 0.2-0.3-0.5-0.6-0.7-0.8-1 x I_n : OFF
t_g from 0.1 + 1 s (4 steps) t_g = 0.1-0.2-0.5-1 s
(both t = const and I²t = const)
- **Neutral protection:** I_n = OFF - 50% - 100% - 100%

Selectivity in three-phase network 415 V~

Downstream	Upstream	DMX ³ 2500					DMX ³ 4000	DMX ³ 6300
		800 A	1000 A	1250 A	1600 A	2000 & 2500 A	3200 & 4000 A	5000 & 6300 A
DPX ³ 160 ⁽¹⁾		T	T	T	T	T	T	T
DPX ³ 250 ⁽¹⁾		T	T	T	T	T	T	T
DPX ³ 630 ⁽¹⁾ TM and elec.		T	T	T	T	T	T	T
DPX ³ 1600 ⁽¹⁾ thermal magnetic	630 A	T	T	T	T	T	T	T
	800 A		T	T	T	T	T	T
	1000 A			T	T	T	T	T
	1250 A				T	T	T	T
DPX ³ 1600 ⁽¹⁾ electronic	630 A			T	T	T	T	T
	800 A			T	T	T	T	T
	1000 A				T	T	T	T
	1250 A				T	T	T	T

1: All breaking capacities
T: total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2

Downstream	Upstream	DMX ³									
		800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A	5000 A	6300 A
DMX ³	800 A		T	T	T	T	T	T	T	T	T
	1000 A			T	T	T	T	T	T	T	T
	1250 A				T	T	T	T	T	T	T
	1600 A					T	T	T	T	T	T
	2000 A						T	T	T	T	T
	2500 A							T	T	T	T
	3200 A								T	T	T
	4000 A									T	T
	5000 A										T
	6300 A										

T: total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2
I_{cu} of downstream circuit breaker ≤ I_{cu} of upstream circuit breaker
Selectivity values are intended with protection unit properly adjusted

	Upstream	DMX ³ 2500					DMX ³ 4000	DMX ³ 6300
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
DX ³ 6000 - 10 kA		T	T	T	T	T	T	T
DX ³ 10000 - 16 kA		T	T	T	T	T	T	T
DX ³ 25 kA		T	T	T	T	T	T	T
DX ³ 36 kA		T	T	T	T	T	T	T
DX ³ 50 kA		T	T	T	T	T	T	T

T: total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2

DMX³ tripping curves,
see technical sheet

For the settings of MP6 protection units
Please, consult us

DMX³
technical characteristics (continued)

Technical characteristics

DMX ³ according to IEC 60947-2		DMX ³ 2500																	
		800			1000			1250			1600			2000			2500		
		N	H	L	N	H	L	N	H	L	N	H	L	N	H	L	N	H	L
Number of poles		3P - 4P			3P - 4P			3P - 4P			3P - 4P			3P - 4P			3P - 4P		
Rating In (A)		800			1000			1250			1600			2000			2500		
Rated insulation voltage Ui (V)		1000			1000			1000			1000			1000			1000		
Rated impulse withstand voltage Uimp (kV)		12			12			12			12			12			12		
Rated operational voltage (50/60Hz) Ue (V)		690			690			690			690			690			690		
Frame		2500		4000	2500		4000	2500		4000	2500		4000	2500		4000	2500		4000
Ultimate breaking capacity Icu (kA)	230 V~	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100
	415 V~	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100
	500 V~	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100
	600 V~	50	60	75	50	60	75	50	60	75	50	60	75	50	60	75	50	60	75
	690 V~	50	55	65	50	55	65	50	55	65	50	55	65	50	55	65	50	55	65
Service breaking capacity Ics (% Icu)		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Short-circuit making capacity Icm (kA)	230 V~	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220
	415 V~	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220
	500 V~	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220
	600 V~	105	132	165	105	132	165	105	132	165	105	132	165	105	132	165	105	132	165
	690 V~	105	121	143	105	121	143	105	121	143	105	121	143	105	121	143	105	121	143
Short time withstand current Icw (kA) for t = 1s	230 V~	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85
	415 V~	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85
	500 V~	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85
	600 V~	50	60	75	50	60	75	50	60	75	50	60	75	50	60	75	50	60	75
	690 V~	50	55	65	50	55	65	50	55	65	50	55	65	50	55	65	50	55	65
Category of use		B			B			B			B			B			B		
Isolation behavior		Yes			Yes			Yes			Yes			Yes			Yes		
Endurance (cycles) with maintenance	mechanical	20000			20000			20000			20000			20000			20000		
Endurance (cycles) without maintenance	mechanical	10000			10000			10000			10000			10000			10000		
	electrical	10000			10000			10000			10000			10000			10000		

DMX ³ according to IEC 60947-2		DMX ³ 4000					
		3200			4000		
		N	H	L	N	H	L
Number of poles		3P - 4P			3P - 4P		
Rating In (A)		3200			4000		
Rated insulation voltage Ui (V)		1000			1000		
Rated impulse withstand voltage Uimp (kV)		12			12		
Rated operational voltage (50/60Hz) Ue (V)		690			690		
Frame		4000			4000		
Ultimate breaking capacity Icu (kA)	230 V~	50	65	100	50	65	100
	415 V~	50	65	100	50	65	100
	500 V~	50	65	100	50	65	100
	600 V~	50	60	75	50	60	75
	690 V~	50	55	65	50	55	65
Service breaking capacity Ics (% Icu)		100	100	100	100	100	100
Short-circuit making capacity Icm (kA)	230 V~	105	143	220	105	143	220
	415 V~	105	143	220	105	143	220
	500 V~	105	143	220	105	143	220
	600 V~	105	132	165	105	132	165
	690 V~	105	121	143	105	121	143
Short time withstand current Icw (kA) for t = 1s	230 V~	50	65	85	50	65	85
	415 V~	50	65	85	50	65	85
	500 V~	50	65	85	50	65	85
	600 V~	50	60	75	50	60	75
	690 V~	50	55	65	50	55	65
Category of use		B			B		
Isolation behavior		Yes			Yes		
Endurance (cycles) with maintenance	mechanical	20000			20000		
Endurance (cycles) without maintenance	mechanical	10000			10000		
	electrical	10000			10000		

DMX ³ according to IEC 60947-2		DMX ³ 6300	
		5000	6300
		L	L
Number of poles		3P - 4P	3P - 4P
Rating In (A)		5000	5000
Rated insulation voltage Ui (V)		1000	1000
Rated impulse withstand voltage Uimp (kV)		12	12
Rated operational voltage (50/60Hz) Ue (V)		690	690
Frame		6300	6300
Ultimate breaking capacity Icu (kA)	230 V~	100	100
	415 V~	100	100
	500 V~	100	100
	600 V~	75	75
	690 V~	65	65
Service breaking capacity Ics (% Icu)		100	100
Short-circuit making capacity Icm (kA)	230 V~	220	220
	415 V~	220	220
	500 V~	220	220
	600 V~	165	165
	690 V~	143	143
Short time withstand current Icw (kA) for t = 1s	230 V~	100	100
	415 V~	100	100
	500 V~	100	100
	600 V~	75	75
	690 V~	65	65
Category of use		B	B
Isolation behavior		Yes	Yes
Endurance (cycles) with maintenance	mechanical	10000	10000
Endurance (cycles) without maintenance	mechanical	5000	5000
	electrical	5000	5000

Temperature derating

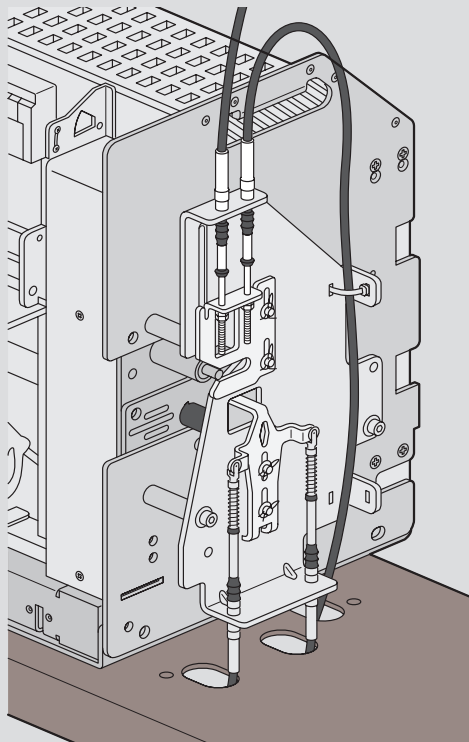
Temperature	40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX ³ 2500	800	1	800	1	800	1	800	1	800	1
	1000	1	1000	1	1000	1	1000	1	1000	1
	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	1960	0.98	1920	0.96	1880	0.94
	2500	1	2500	1	2350	0.94	2250	0.9	2150	0.86
DMX ³ 4000	3200	1	3200	1	3200	1	3136	0.98	3008	0.94
	4000	1	4000	1	3680	0.92	3440	0.86	3120	0.78
DMX ³ 6300	5000	1	5000	1	5000	1	5000	1	5000	1
	6300	1	6300	1	6048	0.96	5796	0.92	5544	0.88

Temperature	40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX ³ 2500	800	1	800	1	800	1	800	1	800	1
	1000	1	1000	1	1000	1	1000	1	1000	1
	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	1960	0.98	1920	0.96	1875	0.94
	2500	1	2500	1	2250	0.9	2100	0.84	1950	0.78
DMX ³ 4000	3200	1	3200	1	3200	1	3072	0.96	2880	0.9
	4000	1	4000	1	3440	0.86	3200	0.8	2960	0.74
DMX ³ 6300	5000	1	5000	1	5000	1	5000	1	5000	1
	6300	1	6300	1	5985	0.95	5796	0.92	5292	0.84

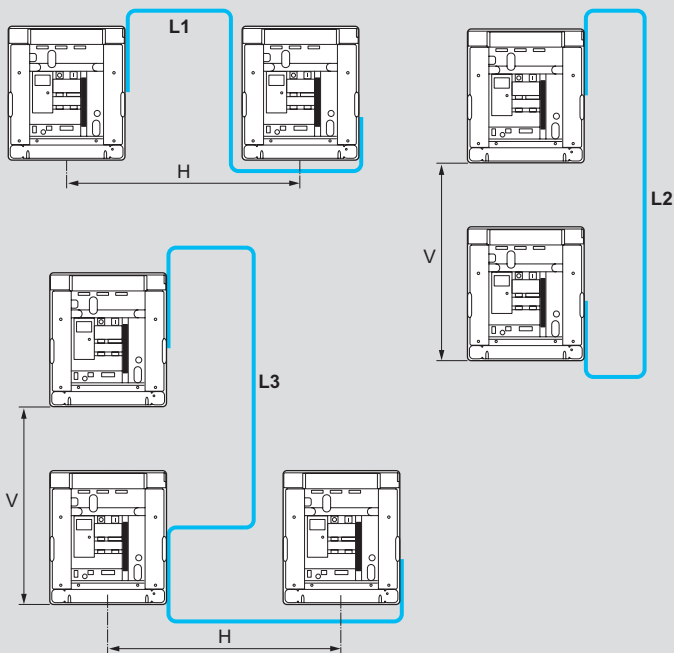
Derating at different altitudes

Air circuit breaker	DMX ³ 2500, DMX ³ 4000 and DMX ³ 6300			
Altitude H (m)	< 2000	3000	4000	5000
Rated current (at 40°C) In (A)	In	0.98 x In	0.94 x In	0.90 x In
Rated voltage Ue (V)	690	600	500	440
Rated insulation voltage Ui (V)	1000	900	750	600

Mounting of interlock unit



Choice of cable interlock



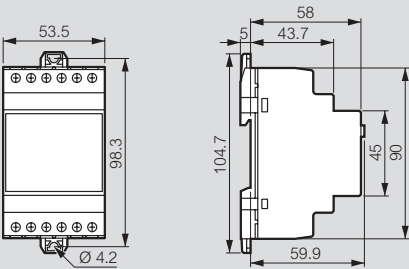
Calculation of cable length:
L1 = 1430 + H
L2 = 1570 + V
L3 = 1430 + V + H

Technical characteristics

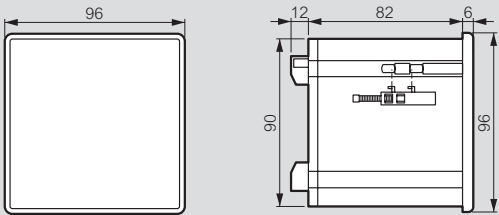
		Cat.Nos		
		4 226 80	4 226 82	4 226 83
Voltage Inputs	Ue max rated voltage	480 V~ L-L (277 V~ L-N)	100-480 V~	600 V~ L-L (346 V~ L-N)
	Measuring range	50-576 V~ (L-L)	50-576 V~ L-L	50...720 V L-L
	Primary voltage VT max	-	50000 V	50000 V
	Frequency range	45...66 Hz	45...65 Hz - 360...440 Hz	45...65 Hz - 360...440 Hz
	Measurement type	True RMS value	True RMS value	True RMS value
	Connection modes	Single phase, two-phase or three-phase system	Single phase, two-phase or three-phase system with or without neutral	Single phase, two-phase or three-phase system with or without neutral
Ambient condition	Measuring error	± 0.25% f.s. ± 1 digit	± 0.25% f.s. ± 1 digit	± 0.25% f.s. ± 1 digit
	Operating temperature	-20... +60 °C	-30...+70 °C	-30...+70 °C
	Storage temperature	-30...+80 °C	-30...+80 °C	-30...+80 °C
	Relativity humidity	< 90 %	80 % (IEC/EN 60068-2-78)	80 % (IEC/EN 60068-2-78)
	Maximum pollution degree	3	2	2
	Overvoltage category	3	3	3
	Measurement category	II	II	II
	Rated impulse withstand voltage	Uimp 4.0 kV	Uimp 7.3 kV	Uimp 7.3 kV

Dimensions

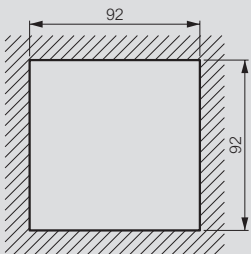
Cat.No 4 226 86



Cat.No 4 226 80

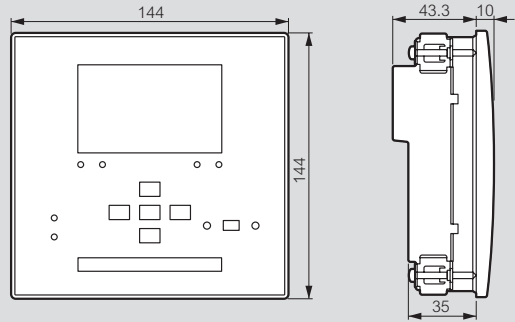


Door cut

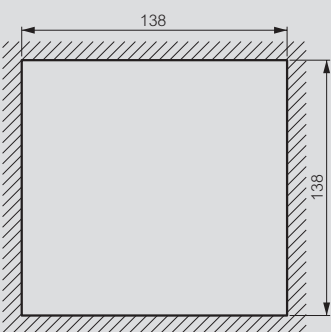


Dimensions (continued)

Cat.No 4 226 82



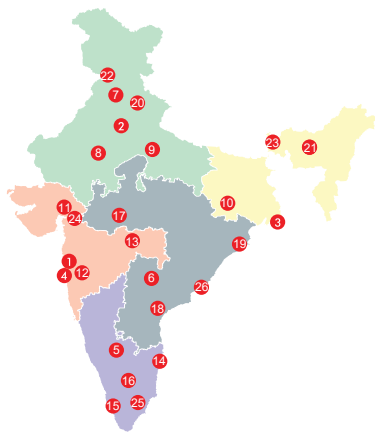
Door cut



Catalogue number index

Notes

Cat.Nos	Page N°	Pack	Cat.Nos	Page N°	Pack	Cat.Nos	Page N°	Pack	Cat.Nos	Page N°	Pack	Cat.Nos	Page N°	Pack	Cat.Nos	Page N°	Pack
0 280 00			0 281 26	30	1	0 286 33	32	1	0 287 34	32	1	0 288 15	35	1	0 289 00		
0 280 00	28	1	27	-	1	34	-	1	35	-	1	16	-	1	0 289 02	35	1
01	-	1	28	-	1	35	-	1	36	-	1	18	36	1	03	-	1
02	-	1	29	-	1	36	-	1	37	-	1	19	-	1	04	-	1
03	-	1	30	-	1	37	-	1	38	-	1	20	35	1	05	-	1
04	-	1	31	-	1	38	-	1	41	-	1	21	-	1	09	-	1
06	-	1	32	-	1	41	-	1	42	-	1	23	-	1	10	-	1
07	-	1	33	-	1	42	-	1	43	-	1	24	-	1	11	-	1
08	-	1	34	-	1	43	-	1	44	-	1	25	-	1	12	-	1
09	-	1	35	-	1	44	-	1	45	-	1	26	-	1	13	-	1
10	-	1	36	-	1	45	-	1	46	-	1	28	-	1	14	-	1
24	-	1	37	-	1	46	-	1	47	-	1	29	-	1	15	-	1
25	-	1	38	-	1	47	-	1	48	-	1	30	-	1	16	-	1
26	-	1	39	-	1	48	-	1	51	-	1	31	-	1	17	31	1
27	-	1	40	-	1	51	-	1	52	-	1	32	-	1	17	36	1
28	-	1	47	-	1	52	-	1	53	-	1	33	-	1	18	31	1
30	-	1	48	-	1	53	-	1	54	-	1	34	-	1	18	36	1
31	-	1	49	-	1	54	-	1	55	-	1	35	-	1	20	31	1
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33	-	1	51	-	1	56	-	1	57	-	1	37	-	1	21	31	1
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51	-	1	57	-	1	64	-	1	65	-	1	44	-	1	24	31	1
52	-	1	58	-	1	65	-	1	66	-	1	45	-	1	24	36	1
53	-	1	59	-	1	66	-	1	67	-	1	48	-	1	25	31	1
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85	-	1	89	30	1	92	-	1	97	-	1	85	-	1	88	-	1
86	-	1	90	31	1	93	-	1	98	-	1	86	-	1	89	-	1
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91	29	1	23	-	1	24	-	1	03	-	1	91	-	1			
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24	-	1	31	-	1	33	-	1	13	35	1	98	-	1			
			32	-	1				14	-	1	99	-	1			



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