

# DMX<sup>3</sup>

## 4000 - 1000 V<sub>~</sub>

Reliable protection  
for your wind turbine,  
photovoltaic and  
railway installations



AIR CIRCUIT  
BREAKERS FROM  
630 A to 4000 A

CATALOGUE  
PAGES  
→ INSIDE

# DMX<sup>3</sup>

## 4000 - 1000 V~

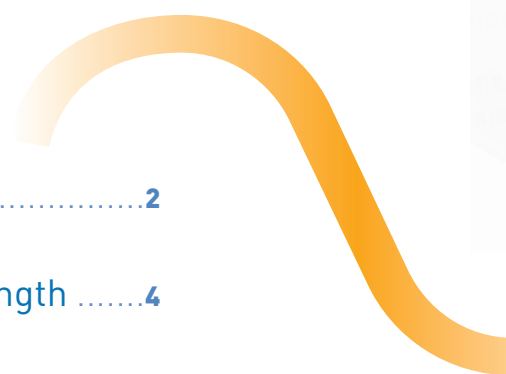


THESE AIR CIRCUIT BREAKERS, SPECIALLY DESIGNED TO SUIT YOUR PERFORMANCE REQUIREMENTS, EFFECTIVELY PROTECT YOUR WIND TURBINE, PHOTOVOLTAIC OR RAILWAY INSTALLATIONS UP TO 4000 A AND BREAKING CAPACITIES UP TO 65 kA. HIGH PERFORMANCE, RELIABILITY AND STRENGTH ARE THE MAIN ADVANTAGES OF THIS NEW RANGE.



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**DMX³ 4000 - 1000 V~**  
3 AND 4-POLE FIXED VERSION



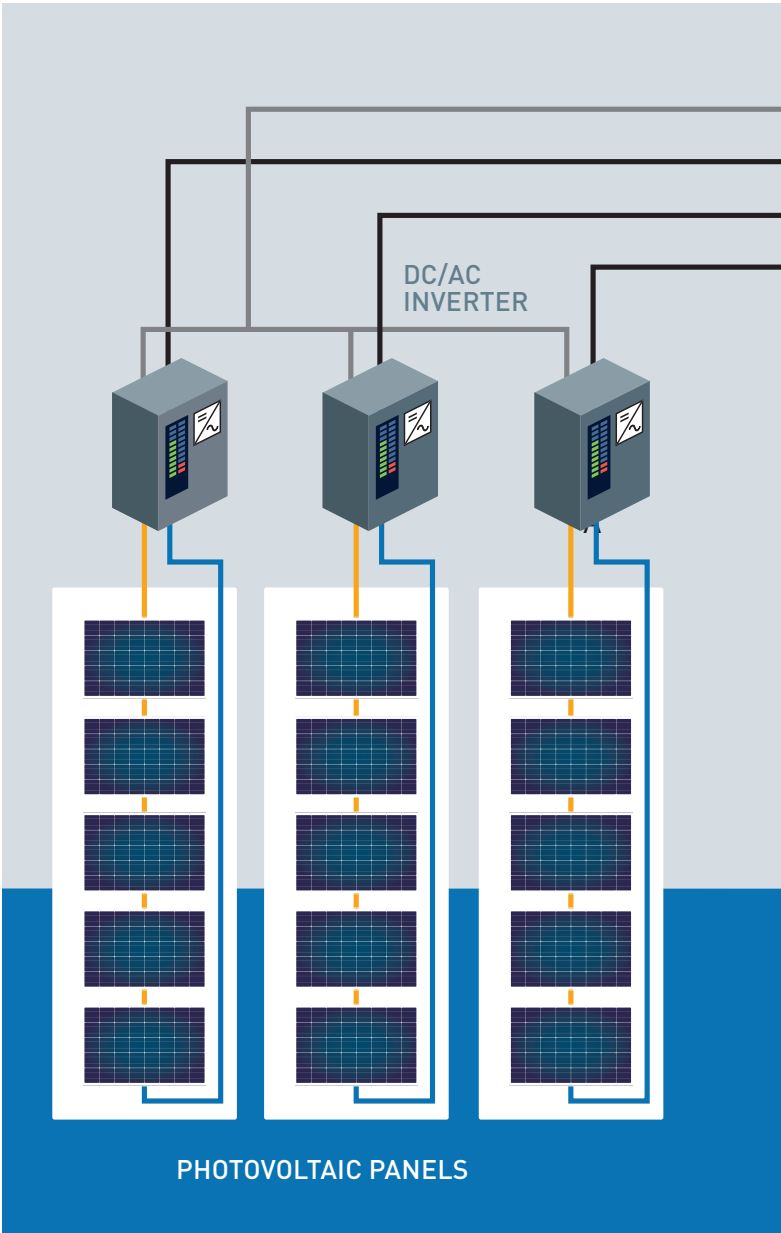
**DMX³ 4000 - 1000 V~**  
3 AND 4-POLE DRAW-OUT VERSION



# Perfectly adapted protection

AIR CIRCUIT BREAKERS 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~.

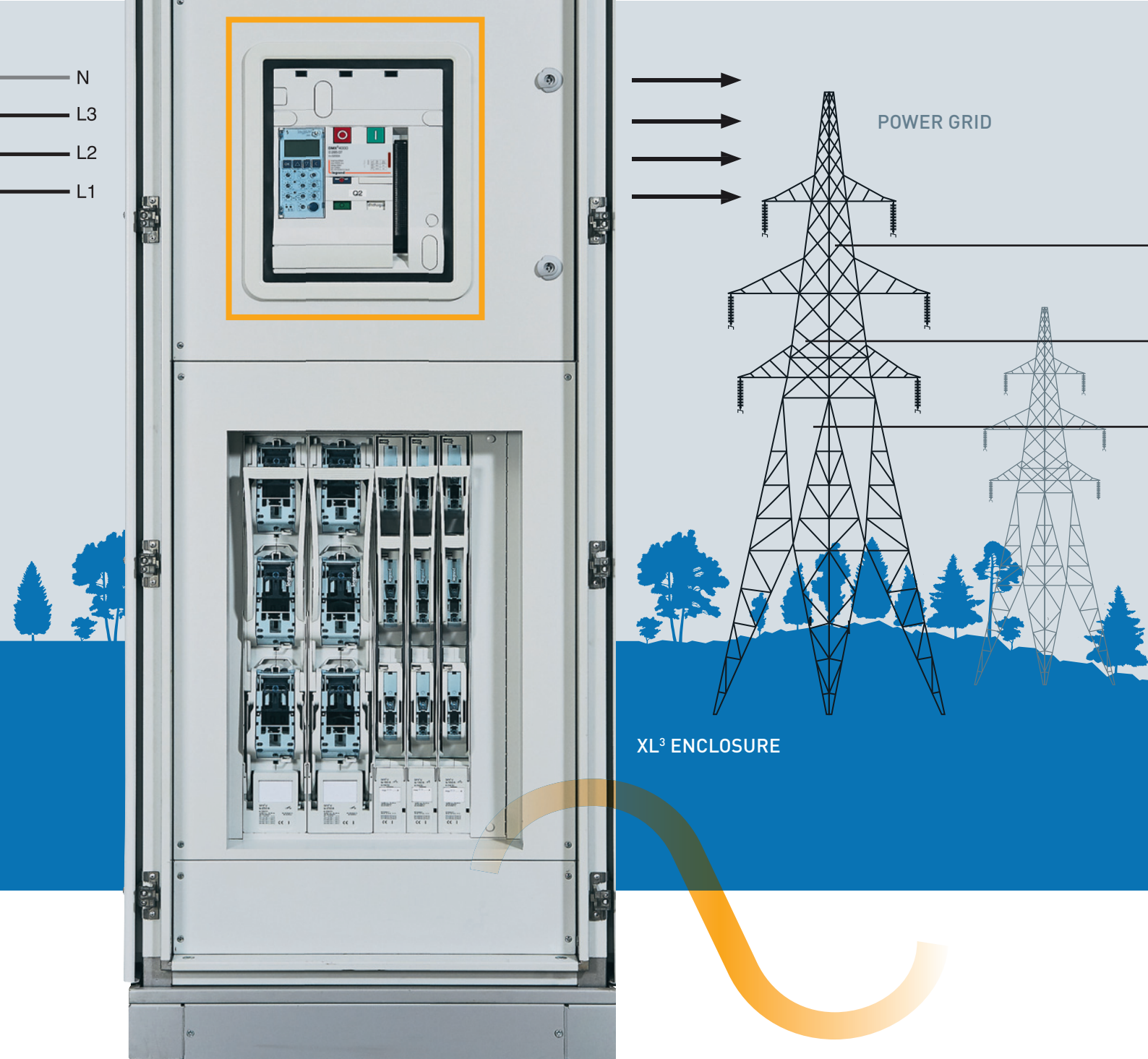
DMX<sup>3</sup> 4000 – 1000 V~ AIR CIRCUIT BREAKERS INTEGRATE SEAMLESSLY INTO XL<sup>3</sup> 4000 ENCLOSURES TO CREATE DIFFERENT CONFIGURATIONS ACCORDING TO THE NEEDS OF THE INSTALLATION.



### 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





# High performance, reliability and strength

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

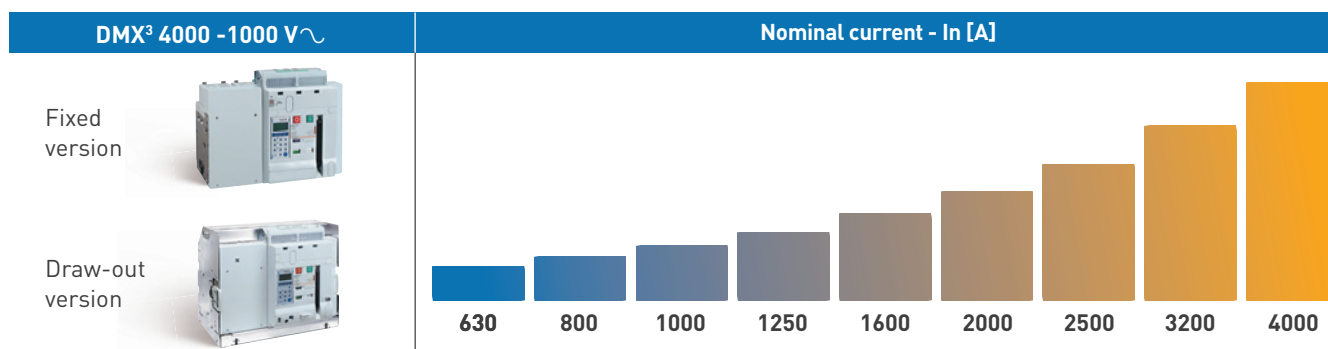
These products are easy to use and to install, and provide effective protection for your installation. They are available with 3 and 4 poles, in fixed or draw-out versions, and come equipped with appropriate protection units depending on the desired performance level. This offer also includes a range 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~**  
CONFORMING TO  
**STANDARD IEC 60947-2**

RATED OPERATING VOLTAGE U <sub>e</sub>	BREAKING CAPACITY I <sub>cu</sub> (kA)
800 V~	65 kA
1000 V~	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
Nominal current at 40°C I <sub>n</sub> (A)	I <sub>n</sub>	0.98 x I <sub>n</sub>	0.94 x I <sub>n</sub>	0.90 x I <sub>n</sub>
Rated voltage U <sub>e</sub> (V)	1000	880	750	690
Insulation voltage U <sub>i</sub> (V)	1250	1100	950	850
Impulse withstand voltage (U <sub>imp</sub> )	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</sub> /I <sub>n</sub>	I <sub>max</sub>	I <sub>r</sub> /I <sub>n</sub>	I <sub>max</sub>	I <sub>r</sub> /I <sub>n</sub>	I <sub>max</sub>	I <sub>r</sub> /I <sub>n</sub>	I <sub>max</sub>	I <sub>r</sub> /I <sub>n</sub>	I <sub>max</sub>	I <sub>r</sub> /I <sub>n</sub>	I <sub>max</sub>	I <sub>r</sub> /I <sub>n</sub>	I <sub>max</sub>	I <sub>r</sub> /I <sub>n</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

# Accuracy and adaptability

**EFFECTIVE  
PROTECTION  
AGAINST  
ELECTRICAL  
FAILURES**

DMX<sup>3</sup> 4000 – 1000 V~ air circuit breakers are factory-fitted with MP4 protection units which guarantee an excellent level of protection, not to mention maximum accuracy and flexibility due to their multiple setting options. The 3 types of electronic unit allow accurate adjustment of the various trip thresholds for the current and time delay values. The result is effective protection against electrical failures, while ensuring total selectivity with the downstream circuit breakers. Advanced functions such as measurement, communication or logical selectivity, available on MP4 protection units, meet every need at any level.





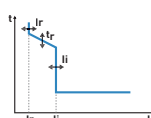


ALL THE PROTECTION UNITS HAVE BATTERIES SO THEY CAN ACCESS THE SETTINGS EVEN IF THE CIRCUIT BREAKER IS NOT SUPPLIED WITH POWER, AND TO ENSURE THAT SAVED DATA IS STORED IN THE MEMORY.

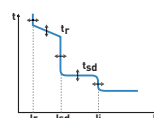
## DMX<sup>3</sup> 4000 - 1000 V ~

### MP4

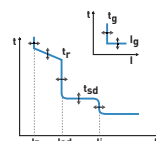
#### LI



#### LSI



#### LSIg



### PROTECTION DEVICES

Long delay protection against overloads	$I_r, t_r$	●	●	●
Long delay protection against short-circuits	$I_{sd}, t_{sd}$	—	●	●
Instantaneous protection against high-intensity short-circuits	$I_i$	●	●	●
Fault current to earth	$I_g, t_g$	—	—	●
Neutral protection	$I_N$	●	●	●

### FUNCTIONS

Test function	●	●	●
Programming interface	●	●	●
External neutral option	●	●	●
LCD screen	●	●	●
Adjustment via potentiometer	●	●	●
Measurement (current)	●	●	●
Communication	●	●	●
Logical selectivity	●	●	●
Programmable contacts	●	●	●
Log	●	●	●
Internal battery	●	●	●

# 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 $\sim$  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.

Undervoltage release



Shunt release



Closing coil



Motor operator



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 $U_n$ (V)	24 V~/ 48 V~/ 110 - 130 V~/ 220 - 250 V~/ 415 - 440 V~
Operating threshold % $U_n$	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 $U_n$ (V)	24 V~/ 48 V~/ 110 - 130 V~/ 220 - 250 V~/ 415 - 440 V~
Operating threshold % $U_n$	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 $U_n$ (V)	24 V~/ 48 V~/ 110 - 130 V~/ 220 - 250 V~/ 415 - 440 V~
Operating threshold % $U_n$	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

Motor operators are used for remotely reloading the springs in the circuit breaker mechanism immediately after the device trips. The device can thus be re-closed almost immediately after an opening operation. To motorise a DMX<sup>3</sup> 4000 - 1000 V~, a release (undervoltage release or current shunt trip) and a closing coil need to be added. If the supply voltage to the controls fails, it is still possible to reload the springs manually. Motor operators have "limit switch" contacts which cut off the power supply to their motor after the springs have been reloaded.



Rated voltage $U_n$ (V)	24 V~/ 48 V~/ 110 - 130 V~/ 220 - 250 V~/ 415 - 440 V~ 480 V~
Operating threshold % $U_n$	85 to 110
Maximum consumption (W/VA)	240/240
Max. peak current	2 to 3 x $I_n$ 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.



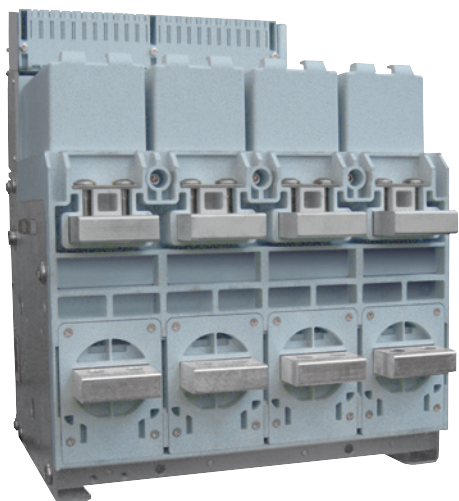
### FIXED VERSION

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.

## 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

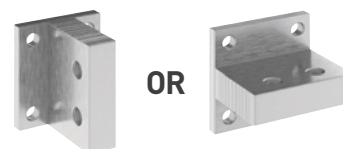


### Flat connection

Directly on the device

### Horizontal connection

Cat.Nos 0 288 94/95



### Vertical connection

Cat.Nos 0 288 94/95



# Air circuit breakers DMX<sup>3</sup> 4000 - 1000 V $\sim$

from 630 to 4000 A

# Electronic protection units for DMX<sup>3</sup> 4000 - 1000 V $\sim$



0 285 17



0 285 37



0 288 00



0 288 01



0 288 02

Dimensions **p. 15-16**  
Electrical characteristics **p. 14**

Automatic air circuit breakers must be equipped with electronic protection unit (p. 12), imperatively ordered together for factory assembly  
Please ask for DMX<sup>3</sup> order form  
Conform to IEC 60947-2

Pack	Cat.Nos		Fixed version
	Frame 4000		Supplied with - 4 auxiliary contacts: NO/NC - rear terminals for horizontal connection with bars - door sealing Breaking capacity Icu 50 kA (1000 V~)
	3P	4P	In (A)
1	0 285 00	0 285 10	630
1	0 285 01	0 285 11	800
1	0 285 02	0 285 12	1000
1	0 285 03	0 285 13	1250
1	0 285 04	0 285 14	1600
1	0 285 05	0 285 15	2000
1	0 285 06	0 285 16	2500
1	0 285 07	0 285 17	3200
1	0 285 08	0 285 18	4000

## 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 $\sim$ )

			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~)
Frame 4000			
	3P	4P	In (A)
1	0 285 20	0 285 30	630
1	0 285 21	0 285 31	800
1	0 285 22	0 285 32	1000
1	0 285 23	0 285 33	1250
1	0 285 24	0 285 34	1600
1	0 285 25	0 285 35	2000
1	0 285 26	0 285 36	2500
1	0 285 27	0 285 37	3200
1	0 285 28	0 285 38	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 $\sim$ )

Settings and curves **see e-catalogue**

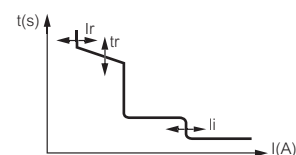
DMX<sup>3</sup> circuit breakers must be equipped with electronic protection units (to be ordered together for factory assembly) enabling very precise adjustments of the protection conditions, while maintaining total discrimination with downstream devices  
All protection units are equipped with batteries for powering in case of mains fault or when the breaker is open or not connected

## MP4 protection units with LCD screen

Integrated LCD screen for displaying electrical values, settings and log  
Adjustment via selector switches  
For DMX<sup>3</sup> 2500, 4000, 6300 and DMX<sup>3</sup> 4000 - 1000 V $\sim$

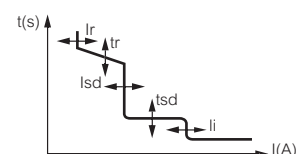
### LI protection unit

Adjustment of:  
li, Ir, tr



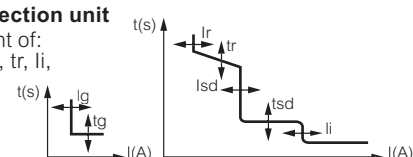
### LSI protection unit

Adjustment of:  
Isd, tsd, Ir, tr and li



### LSIg protection unit

Adjustment of:  
Isd, tsd, Ir, tr, li, Ig and tg



## Accessories for electronic protection units

1	0 288 05 <sup>1</sup>	Communication option for DMX <sup>3</sup> electronic protection units
1	0 288 06	24 V DC external auxiliary power supply
1	0 288 11 <sup>1</sup>	External neutral for DMX <sup>3</sup> 2500 and 4000
1	0 288 12 <sup>1</sup>	Module programmable output

1: Optional accessories, to be ordered when ordering electronic protection unit and DMX<sup>3</sup> air circuit breakers for factory assembly



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



Pack	Cat.Nos	Control and signalling auxiliaries	Pack	Cat.Nos	Locking
		<b>Shunt trip</b> When energised the circuit breaker will be tripped			<b>Key locking in "open" position</b> Lock and star key N° HBA90GPS6149 - to be fitted on the frame Cat.No 0 288 28
1	0 288 48	24 V~/=	1	0 288 30	Lock and flat key N° ABA90GEL6149 - to be fitted on the frame Cat.No 0 288 28
1	0 288 49	48 V~/=	1	0 288 31	2 hole support frame for locks Cat.Nos 0 288 30/31
1	0 288 50	110 - 130 V~/=	1	0 288 28	Set of 5 key barrels with flat key
1	0 288 51	220 - 250 V~/=			<b>Key locking in the draw-out position</b> Mounting of the lock on the base
1	0 288 52	415 - 480 V~	1	0 288 29	Lock and star key N° HBA90GPS6149
		<b>Undervoltage releases</b> When the coil is de-energised, the circuit breaker will be tripped	1	0 288 32	Lock and flat key N° ABA90GEL6149
1	0 288 55	24 V~/=	1	0 288 33	<b>Door locking</b> Prevents opening of the door with the circuit breaker closed
1	0 288 56	48 V~/=			Left-hand and right-hand side mounting
1	0 288 57	110 - 130 V~/=	1	0 288 20	<b>Padlocks in "open" position</b> Padlocking system for ACB (padlock not supplied)
1	0 288 58	220 - 250 V~/=	1	0 288 21	Padlock for buttons
1	0 288 59	415 - 480 V~	1	0 288 24	Padlocking system for shutters (padlock not supplied)
		<b>Module for delayed tripping</b> To be used with above undervoltage releases			<b>Equipment for conversion of a fixed device into draw-out device</b>
1	0 288 62	110 V~/=			<b>Bases for draw-out device</b> For DMX <sup>3</sup> /DMX <sup>3</sup> -I frame 4000
1	0 288 63	230 V~/=			<b>Transformation kit for draw-out version</b> For DMX <sup>3</sup> /DMX <sup>3</sup> -I frame 4000
		<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			<b>Accessories</b>
1	0 288 34	24 V~/=			Rating mis-insertion device
1	0 288 35	48 V~/=			Prevents the insertion of a draw-out circuit breaker in an incompatible base
1	0 288 36	110 - 130 V~/=	1	0 289 04   0 289 05	Operations counter
1	0 288 37	220 - 250 V~/=			Counts total number of operation cycles of the device
1	0 288 38	415 - 440 V~	1	0 289 11   0 289 12	Contact "ready to close" with charged springs
1	0 288 40	480 V~/=			Additional signalling contact
		<b>Closing coils</b> Enables remote closing of the circuit breaker if the closing spring is charged	1	0 288 25	Lifting plate
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				
		<b>Signalling contact for draw-out version</b> Inserted / test / draw-out signalling contact			
1	0 288 13	3 changeover contacts per position			

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



Dimensions p. 15-16

Pack	Cat.Nos		Rear terminals
	3P	4P	
1	0 288 92	0 288 93	<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
1	0 288 94	0 288 95	<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
	3P	4P	
1	0 288 98	0 288 99	<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~
1	0 288 18	0 288 19	<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~

### Insulation shields

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

### technical characteristics

#### Technical characteristics

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

#### Derating at different altitudes

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

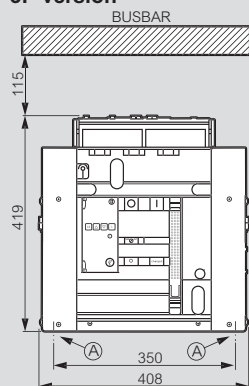
# DMX<sup>3</sup> 4000 - 1000 V<sub>~</sub> - frame 4000

## dimensions

### Fixed version - frame 4000

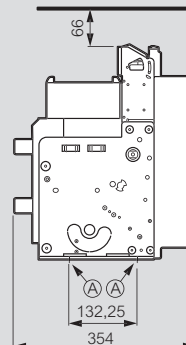
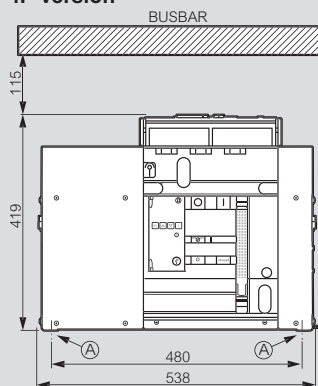
#### Overall dimensions

##### 3P version

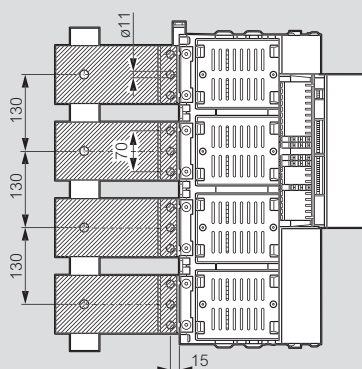
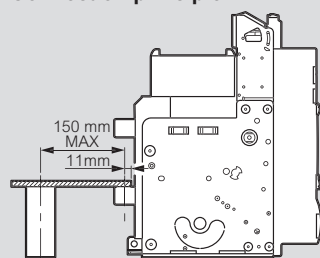


A = fixing point on plate of enclosure

##### 4P version

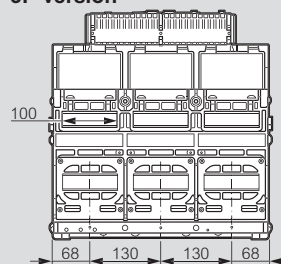


#### Connection principle

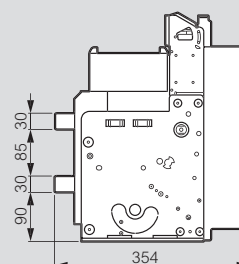
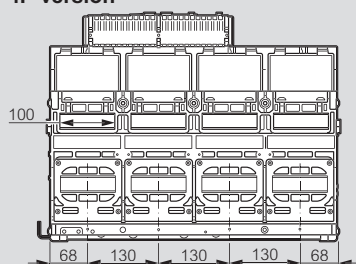


#### Rear terminals

##### 3P version



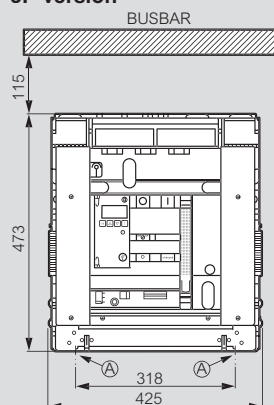
##### 4P version



### Draw-out version - frame 4000

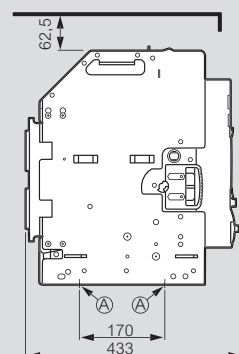
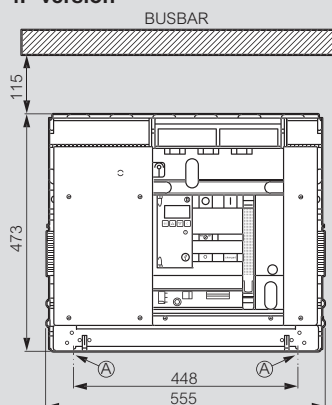
#### Overall dimensions

##### 3P version



A = fixing point on plate of enclosure

##### 4P version





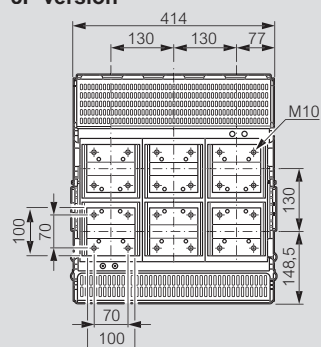
# DMX<sup>3</sup> 4000 - 1000 V<sub>~</sub> - frame 4000

dimensions (continued)

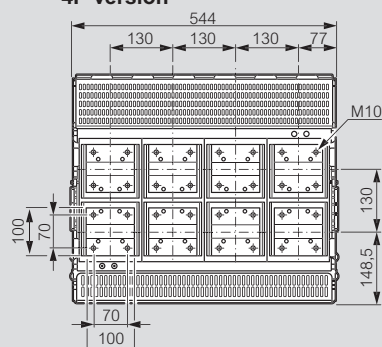
## Draw-out version - frame 4000 (continued)

Rear terminals for flat connection with bars

3P version



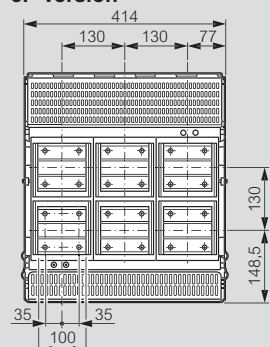
4P version



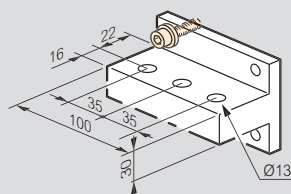
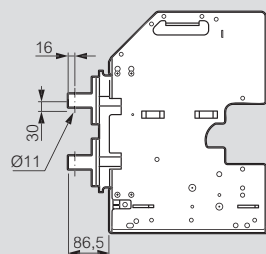
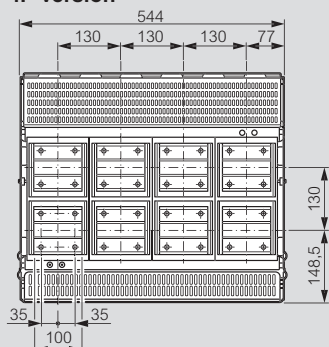
Rear terminals for horizontal connection with bars

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3P version



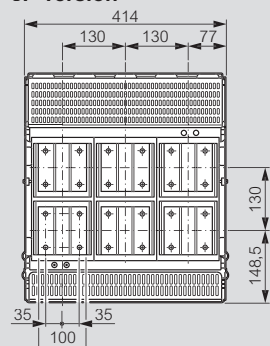
4P version



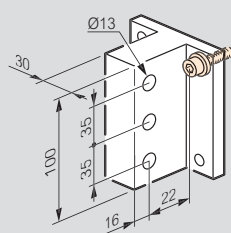
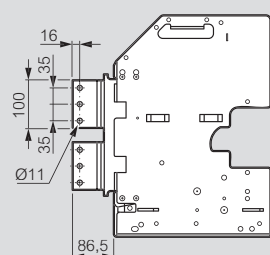
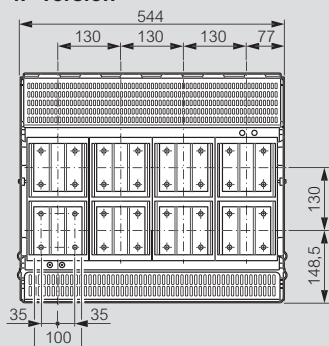
Rear terminals for vertical connection with bars

Cat.Nos 0 288 92/93

3P version



4P version



## Notes

In accordance with its policy of continual improvement, the company reserves the right to modify the characteristics and design of its products without warning. All illustrations, descriptions, dimensions, and weights indicated in this catalogue are given as a guide only and the company cannot be held liable for their accuracy.



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