

Protection  
excellence

# CVX 630M, MTX and 90AM

## DISTRIBUTION BOARDS, MOULDED-CASE CIRCUIT BREAKERS, AND MODULAR ACCESSORIES

2010 Innovations

### Innovation and reliability.

The protection system is the result of GEWISS' innovative and technological vocation, allowing you to easily obtain the most in terms of reliability and safety. And all with the minimum effort.

### Integration.

Each device is designed to be integrated in the protection system, guaranteeing the required levels of co-ordination in every commercial and industrial applications.

### Certified configurations.

All the possible configurations with the GEWISS protection system are guaranteed by preliminary validation tests carried out in the laboratory. Thanks to the GW-PBTQ software, it's quick and easy to check the boards and print the relative technical documentation.

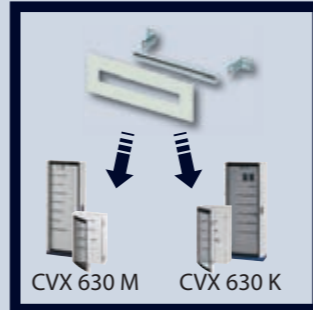


## CVX 630M - Distribution boards



### Design

The elegant design of the board, characterised by the curved, tinted glass and the silkscreen printing, make it ideal for use in every environment but especially in highly visible installations.



### Synergy

CVX 630 M uses the same modular and moulded-case device installation kits as for the CVX 630 K range of modular boards.



### Access

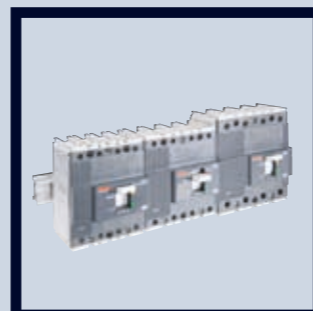
Thanks to the possibility to remove the front uprights and the side panels, wiring is made easier even in the monobloc structure.

## MTX - Moulded-case circuit breakers



### Compactness

MTX160c is the most compact of the 160A circuit breakers. The MTX versions up to 250A, maintain their reduced vertical and horizontal dimensions, even when equipped with an "L"-shaped add-on residual current device.



### Practicality

The 160c/160/250 versions have a depth of 70mm and can be mounted on a DIN rail using the appropriate fixing accessory; thanks to the depth adapter, they can be used alongside the modular devices of the 90 range.



### Precision

Thanks to the wide range of adjustment of the tripping currents, the electronic microprocessor release devices (from the 160A size) guarantee top intervention precision and greater flexibility of use.

## 90 AM - Modular accessories



### Uniformity

Thanks to the co-ordination with the 90 range circuit breakers, these new accessories offer top quality design results.



### Compactness

All the control and signalling devices up to the 4P 32A switch disconnector occupy just one module.



### Indicator lamps

The range of indicator lamps is extended with the new 2- and 3-lamp versions (with LED technology) in a single module, ideal for applications requiring the signalling of mains voltage presence.






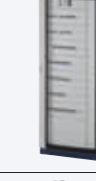








# CVX 630M, MTX and 90AM range

## MTX








	MCCB - MOULDED CASE CIRCUIT BREAKERS (EN 60947-2)																										
	MTX 160c			MTX 160 - MTXE 160			MTX 250		MTX 320 - MTXE 320				MTX 630 - MTXE 630				MTX 1000 - MTXE 1000				MTSE 1600						
<b>Uninterrupted rated current Iu (A)</b>	160			160			250		250 / 320				400 / 630				630/800/1000				1250 / 1600						
No. of poles	3-4			3-4			3-4		3-4				3-4				3-4										
Rated operational voltage Ue	(AC) 50-60Hz (V) 500 (DC) (V)			690			690		690				690				690										
Rated impulse withstand voltage Uimp (kV)	8			8			8		8				8				8										
Rated insulation voltage Ui (V)	800			800			800		1000				1000				800										
Test voltage at industrial frequency for 1 min.	3000			3000			3000		3500				3500				3000										
Icu	B C N			N S H			N S		N S H L				N S H L				S H L										
(AC) 50-60 Hz 380/415V (kA)	16	25	36	36	50	70	36	50	36	50	70	120	36	50	70	120	36	50	70	100	50	65	100				
(AC) 50-60 Hz 690V (kA)	3	4	6	6	7	8	5	8	20	25	40	70	20	25	40	70	20	22	25	30	20	25	35				
(DC) 250V - 3 poles in series (kA)	20	30	40	40	55	85	40	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
(DC) 500V - 3 poles in series up to 250A - 2 poles in series up to 1000A (kA)	16	25	36	36	50	70	36	50	25	36	50	70	25	36	50	70	20	35	50	65	-	-	-				
Ics	(AC) 50-60 Hz 380/415V (kA)			100% 100% 75%			100% 100% 100%		75% 50% (27 kA)				100% 100% 100% 100%				100% 100% 100% 75%				100% 75% 50%						
(AC) 50-60 Hz 690V (kA)	100% 75% 50%			100% 100% 100%			75% 50%		100% 100% 100% 100%				100% 100% 100% 100%				75% 75% 75% 75%			100% 75% 50%							
Rated closing capacity on short-circuit Icm (415V) (kA)	32			52.5 75.6			75.6 105 154		75.6 105				75.6 105, 104 264 440				75.6 105, 104 264 440				75.6 105 154 220						
Category of use (IEC 60947-2)	A			A			A		A				B (400 A) - A (630 A)				B (630-800 A) - A (1000 A)			L							
Insulation aptitude	■			■			■		■				■				■										
Thermomagnetic release for power distribution	T adjustable, M fixed			T adjustable, M adjustable (5..10 x In)			TM1		■				■				■										
Thermomagnetic release for generator protection	T adjustable, M fixed (3 x In)			TMG			■ (N-S)		■				■				■										
Magnetic release for motor protection	M			■ (N-S)			■		■				■				■										
Electronic release for power distribution	SEP/1			SEP/2			■		■				■				■										
Execution:	Fixed (F)			Plug-in (P)			Withdrawable (W)		■				■				■										
Fixing on DIN profile	DIN EN 50022			DIN EN 50022			DIN EN 50022		-				-				-										
	NON-AUTOMATIC SWITCH DISCONNECTORS (EN 60947-3)																										
	MTXM 160c			MTXM 250			MTXM 320				MTXM 400				MTXM 630				MTXM 800			MTXM 1000			MTSM 1600		
Rated thermal current, Ith (A)	160			250			320				400				630				800			1000			1250 / 1600		
Rated closing capacity on short-circuit Icm (kA)	2.8			5.3			5.3				11				11				30			30			52.5		
Brief allowable rated current for 1s, Icw (kA)	2			3.6			3.6				6				6				15			15			25		
	ADD-ON RESIDUAL CURRENT DEVICES																										
	BDI		BDR		BDI		BDR		BDI		BDR		BDR				BDR										
Typology	"L"-shape		"L"-shape		"L"-shape		Under-mounting		Under-mounting																		
Rated operating current (A)	160		160		250		320		500																		
Adjustable tripping thresholds (A)	0.03 - 3		0.03 - 3		0.03 - 3		0.03 - 10		0.03 - 10																		
Adjustable tripping times (s)	Instantaneous		Instantaneous 0.1 - 3		Instantaneous 0.1 - 3		Instantaneous 0.1 - 3		Instantaneous 0.1 - 3																		
Change-over contact for tripping signalling	■		■		■		■		■																		
Type A - AC	■		■		■		■		■																		
Type S	■		■		■		■		■																		
	ACCESSORIES																										
Opening releases: shunt trip / undervoltage	■			■			■				■				■			■			■						
Contacts for the electric signalling of circuit breaker status	■			■			■				■				■			■			■						
Motor control	■			■			■				■				■			■			■						
Rotary handle controls and lever locks	■			■			■				■				■			■			■						
Interlock	■			■			■				■				■			■			■						
	On plate (suitable for automatic line switchover)																										

Notes: 1 - 75% for In=630A 2 - 50% for In=1000A 3 - Not available for In=1000A

## CVX

		DISTRIBUTION BOARDS AND ENCLOSURES													
		SURFACE-MOUNTING BOARDS						FLOOR-MOUNTING BOARDS							
		CVX 160i		CVX 160 E		CVX 630 K		CVX 630 M		CVX 630 K		CVX 630 M		CVX 1600	
		Monobloc flush-mounting board for masonry/plasterboard walls, complete with plastic panels and internal guides		Monobloc board with extractable frame. Plastic panels		Modular board		Watertight monobloc board		Modular board		Watertight monobloc board		Watertight modular enclosure	
															
IP degree of protection	Without door	IP30		IP30		IP30		IP30		IP30		IP30		IP31/41	
	With door	IP40		IP40 - IP55 - IP65		IP40 - IP43		IP55		IP40 - IP43		IP55		IP65	
Length dimensions (mm)															
Combined use of structures		■		■		■		■		■		■		■	
Depth (mm)		170		170		230		280		230		280		400 600 800	
Height (mm)	600	■		■		■		■		■		■		■	
	800	■		■		■		■		■		■		■	
	1000	■		■		■		■		■		■		■	
	1200	■		■		■		■		■		■		■	
Characteristics	Rated data	In = 160A Icc = 10kA		In = 160A Icc = 10kA		In = 630A Icc = 36kA		In = 630A Icc = 36kA		In = 630A Icc = 36kA		In = 630A Icc = 36kA		In = up to 3200A Icc = 100kA	
	Devices that can be installed	90 range modular devices. MTX 160c and MTX/E 160 moulded-case circuit breakers. BDI/BDR Add-on residual current devices for MCCB. MSS switch disconnectors up to 160A		90 range modular devices. MTX 160c and MTX/E 160 moulded-case circuit breakers. BDI/BDR Add-on residual current devices for MCCB. MSS switch disconnectors up to 160A		90 range modular devices. MTX 160c, MTX/E 160, MTX 250, MTX/E 320 and MTX/E 630 moulded-case circuit breakers. BDI/BDR Add-on residual current devices for MCCB. MSS switch disconnectors up to 630A		90 range modular devices. MTX 160c, MTX/E 160, MTX 250, MTX/E 320 and MTX/E 630 moulded-case circuit breakers. BDI/BDR Add-on residual current devices for MCCB. MSS switch disconnectors up to 630A		90 range modular devices. MTX 160c, MTX/E 160, MTX 250, MTX/E 320 and MTX/E 630 moulded-case circuit breakers. BDI/BDR Add-on residual current devices for MCCB. MSS switch disconnectors up to 630A		90 range modular devices. MTX 160c, MTX/E 160, MTX 250, MTX/E 320, MTX/E 630, MTX/E 1000 and MTSE 1600 moulded-case circuit breakers. BDI/BDR Add-on residual current devices for MCCB. MSS switch disconnectors up to 630A		90 range modular devices. MTX 160c, MTX/E 160, MTX 250, MTX/E 320, MTX/E 630, MTX/E 1000 and MTSE 1600 moulded-case circuit breakers. BDI/BDR Add-on residual current devices for MCCB. MSS switch disconnectors up to 630A	

## 90 AM

		90AM RANGE MODULAR ACCESSORIES											
		CONTROL					SIGNALLING					SOCKET-OUTLETS	
		ISOLATING SWITCHES		ON-OFF SWITCH WITH INDICATOR LAMP	LEVER SWITCHES		INDICATOR LAMPS		PUSH-BUTTONS		ILLUMINATED PUSH-BUTTONS		ITALIAN/GERMAN STANDARD
													
Rated current In (A)		16, 32		16, 32	16		/		16		16		16
Rated voltage Un (V)		250 - 415 AC		230 AC	250 AC		12 - 24 - 48 AC/DC 230 AC		250 AC		Push-button 250 AC Lamp 12 - 24 - 48 AC/DC 230 AC		250 AC
No. of modules		1		1	1		1		1		1		2.5
Functional diagrams		