Type B50

Ventilation	natural ventilation up to and including 175 kVAr forced ventilation from 200 kVAr
Isolation voltage	550 Vac
THD(I)$_{max}$	50% on the capacitors (30% to 35% in the network)
Frequency	50 Hz
Working voltage	415 V
Power	Q_n = received power on the required tension and frequency
Operating voltage	400 V or 230 V via a built-in transformer (400/230 V)
Temperature range	-5°C / +40°C
Lock	screws : G3E, G4E, G4RM and G5E key : G7M kit
Protection degree	G3E/G4E/G4RM/G5E external IP 31 = Internal : IP 00 G7M Kit external IP 40 = internal IP 20.
Cubicle	in robust sheet steel, RAL 7035
Short- circuit capacity	series G3E, G4E and G4RM : 10 kA in 1 sec series G5E, G6E and G8E on request till 50 kA
Switch	three pole switch (blocks the door by turning on)
Terminal	G3E, G4E, G4RM, G5T : at the top G7M kit : at the bottom
Wiring	Internal wiring is realized according to the norm N07VK CEI 20-22 II fireproof
Contactors	for high reliability each bank of capacitors is controlled by its own three-pole contactor. To limit the switching on inrush current each contactor is provided with chokes or resistors.
Fuses	Every bank is protected by a set of 3 HRC fuses (NH00 type – curve gG); the driving circuit is protected with tube fuses (10x38 mm)
Capacitors	single phase, connected in triangle self-healing, metalized polypropylene film, equipped with overpressure safety device and discharge resistor. All are compliant with standard dry type (only the dielectricum is impregnated with biodegradable oil, PCB free) ○ capacitance tolerance : -5% / +10% ○ total losses of the capacitors : $\leq$ 0.4 W/kVAr ○ temperature category : -25/D according to standard CEI EN 60831-1
Regulator	varmetric relay (type QSR / BMR) entry 5A for TI 5VA class 1, secondary current adapted to the network entry for voltage 415 V switching on/off times : 25 à 30 sec
Reference standards	capacitors : CEI EN 60831-1/2 IEC 831-1/2 UL 810 equipment : CEI EN 60439-1 EIC 439-1

COMAR BENELUX

STANDARD CAPACITIES TYPE B50

Type	Qn	In	Steps	Principle	Switch	Regulator	Dimensions	Weight
	kVAr	*A*	kVAr	n x kVAr	A		h x w x d mm	kg
G3E B50	25	*35*	6 6 12,5	4 x 6,2	80	**QSR4**	580 x 280 x 230	17
G3E B50	31	*43*	6 12,5 12,5	5 x 6,2	80			18
G3E B50	43,5	*61*	6 12,5 25	7 x 6,2	125	**QSR4**	630 x 365 x 250	22
G3E B50	50	*70*	12,5 12,5 25	4 x 12,5	125			23
G3E B50	62,5	*87*	12,5 25 25	5 x 12,5	125			26
G4E B50	75	*104*	12,5 12,5 25 25	6 x 12,5	160	**QSR4**	800 x 430 x 320	38
G4E B50	100	*139*	12,5 12,5 25 50	8 x 12,5	200			43
G4RM B50	125	*174*	25 50 50	5 x 25	250	**QSR4**	1210 x 550 x 430	80
G4RM B50	150	*209*	25 25 50 50	6 x 25	250			85
G4RM B50	175	*244*	25 50 50 50	7 x 25	315			87
G4RM B50	200	*279*	25 25 50 100	8 x 25	400			89
G4RM B50	225	*313*	25 50 50 100	9 x 25	400			95
G4RM B50	250	*348*	25 50 75 100	10 x 25	400			102
G5E B50	300	*418*	50 50 50 50 50 50	6 x 50	630	**QSR6**	1520 x 810 x 380	175
G5E B50	350	*487*	50 50 50 50 50 100	7 x 50	630			192
G5E B50	400	*557*	50 50 50 50 100 100	8 x 50	630			207
G7M Kit B50	450	*627*	50 100 100 100 100	9 x 50	optional	**BMR**	2000 x 800 x 600	225
G7M Kit B50	500	*696*	50 50 100 100 100 100	10 x 50	optional		+ socle 100	240
G7M Kit B50	550	*766*	50 100 100 100 100 100	11 x 50	optional			260
G7M Kit B50	600	*836*	50 50 100 100 100 100 100	12 x 50	optional			275