

AUTOMATIC CAPACITOR BANKS B50 FOR OUTSTANDING PERFORMANCE AND LONG-TERM VALUE

The automatic capacitor banks type **B50** offers a unique combination of abilities to give you more convenience, reliability and cost-effectiveness across a broad range of applications.

This is the ideal solution for compensating in a "MEDIUM POLLUTED" network.



A long experience of 26 years, in combination with a quality production and the use of high quality components, Comar Benelux offers you this new scale of automatic capacitor banks with a long term value!

SIMPLICITE

- Easy installation for all cabling also current measurement
- Compact enclosure
- Manuals of the PF controllers (QSR4, BMR6 et BMR12) clearly presented
- Communication option through RS gate 486



RELIABILITY AND DURABILITY

- Long life performance due to the high quality components
- Over heating protection and alarm
- Step switching with special designed contactors
(Cyclic using of all steps)
- Optimized ventilation and cooling

SAFETY

- The unit can be equipped with main protection device or switch or complete polycarbonate protection
- Cabinet can only be opened after interruption
- Step protection with circuit breaker
- Robust envelop; protection against mechanical shocks
- Direct and accidental contact protection

TYPE B50

Gamma B50 :

Automatic capacitor bank appropriate for a **medium** polluted network

THD (I) % in the network

Type	Order Code	Power	Steps (kVar)	I nom	PF Controller	Protection	Dimensions
G3E B50 25-415	ACCC30025	25 kVar	4 x 6,2	35 A	QSR 4	80 A	580 x 280 x 230 mm
G3E B50 31-415	ACCC30031	31 kVar	5 x 6,2	43 A	QSR 4	80 A	580 x 280 x 230 mm
G3E B50 43,5-415	ACCC30043	43,5 kVar	7 x 6,2	61 A	QSR 4	125 A	630 x 365 x 250 mm
G3E B50 50-415	ACCC30050	50 kVar	4 x 12,5	70 A	QSR 4	125 A	630 x 365 x 250 mm
G3E B50 62,5-415	ACCC30062	62,5 kVar	5 x 12,5	87 A	QSR 4	125 A	630 x 365 x 250 mm
G4E B50 75-415	ACCC30075	75 kVar	6 x 12,5	104 A	QSR 4	160 A	800 x 430 x 320 mm
G4E B50 100-415	ACCC30100	100 kVar	8 x 12,5	139 A	QSR 4	200 A	800 x 430 x 320 mm
G4RM B50 100-415	ACCC30100+	100 kVar	4 x 25	139 A	QSR 4	200 A	550 x 430 x 1210 mm
G4RM B50 125-415	ACCC30125	125 kVar	5 x 25	174 A	QSR 4	250 A	550 x 430 x 1210 mm
G4RM B50 150-415	ACCC30150	150 kVar	6 x 25	209 A	QSR 4	250 A	550 x 430 x 1210 mm
G4RM B50 175-415	ACCC30175	175 kVar	7 x 25	244 A	QSR 4	315 A	550 x 430 x 1210 mm
G4RM B50 200-415	ACCC30200	200 kVar	8 x 25	279 A	QSR 4	400 A	550 x 430 x 1210 mm
G4RM B50 225-415	ACCC30225	225 kVar	9 x 25	313 A	QSR4	400 A	550 x 430 x 1210 mm
G4RM B50 250-415	ACCC30250	250 kVar	10 x 25	348 A	QSR 4	400 A	550 x 430 x 1210 mm
G5E B50 300-415	ACCC30300	300 kVar	6 x 50	418 A	BMR 6	630 A	810 x 380 x 1520 mm
G5E B50 350-415	ACCC30350	350 kVar	7 x 50	487 A	BMR 6	630 A	810 x 380 x 1520 mm
G5E B50 400-415	ACCC30400	400 kVar	8 x 50	557 A	BMR 6	630 A	810 x 380 x 1520 mm
G5T B50 450-415	ACCC30450	450 kVar	9 x 50	627 A	BMR 6	800 A	810 x 380 x 1790 mm
G5T B50 500-415	ACCC30500	500 kVar	10 x 50	696 A	BMR 6	1000 A	810 x 380 x 1790 mm
G7M Kit B50 450-415	ACCB30450	450 kVar	9 x 50	627 A	BMR 12	800 A	800 x 600 x 2100 mm
G7M Kit B50 500-415	ACCB30500	500 kVar	10 x 50	696 A	BMR 12	1000 A	800 x 600 x 2100 mm
G7M Kit B50 550-415	ACCB30550	450 kVar	11 x 50	766 A	BMR 12	1000 A	800 x 600 x 2100 mm
G7M Kit B50 600-415	ACCB30600	500 kVar	12 x 50	836 A	BMR 12	1000 A	800 x 600 x 2100 mm
G3E B/5 32-400	ACCC50040	32 kVar	4 x 8	46 A	QSR 4	125 A	365 x 250 x 630 mm
G3E B/5 40-400	ACCC50050	40 kVar	5 x 8	56 A	QSR 4	125 A	365 x 250 x 630 mm
G4E B/5 48-400	ACCC50060	48 kVar	6 x 8	69 A	QSR 4	160 A	430 x 320 x 800 mm
G4E B/5 64-400	ACCC50080	64 kVar	8 x 8	92 A	QSR 4	160 A	430 x 320 x 800 mm

GENERAL CHARACTERISTICS

ENCLOSURE	
Dimensions (mm)	580 x 280 x 230 mm – 630 x 365 x 250 mm - 800 x 430 x 320 mm 1210 x 550 x 430 mm - 1520 x 810 x 380 mm - 1790 x 810 x 380 mm 800 x 600 x 2100 mm
Degree of Protection	IP 40/55
Colour	RAL 7035
Degree of Protection – Open door	IP 20

ELECTRICAL CHARACTERISTICS	
Ventilation	Forced ventilation
Operating voltage	230 V (built-in transformer)
Protection	Internal general protection / general switch
Capacitors	Reinforced capacitors
Isolation voltage = Maximum admissible voltage 24 H/24 H	500 V
Contactor	Special contactors for capacitive charges Static contactors (reaction time < 1 sec) on demand

ENVIRONMENT	
Installation	Indoor
Ambient temperature	-25°C to + 40°C
Average temperature	35°C
	45°C with derating (On demand D/65° derating)
Humidity	Up to 95 %
Maximum altitude	2000 m

STANDARDS	
	IEC 60831 - 1/2
	IEC 61439 - 1/2

COMPONENTS



Single phase capacitors

Single-phase capacitors

The single phase capacitor is especially designed and engineered for long life use .

Features :

- High life expectancy
- High overload capabilities with good thermal and mechanical properties
- Self-healing with discharge resistors
- Pressure sensitive disconnecter
- Special film resistivity and metallization profile for higher thermal efficiency



Contactors for capacitors with self limitation

Contactors for capacitors with self limitation

- **Unique technology contactors :**

The contactors used in our devices are specifically designed for capacitor control. They are fitted with a contact block allowing the current to pass on closing and with damping resistors that limit the current on energisation.

- **Personal safety :**

The contactors cannot be operated manually. The contactors are fitted with covers to protect them from direct contact.

- **Safety of installations :**

Damping resistors are used to reduce transient voltage surges.

- **Long life service :**

These contactors are a ready-to-use solution that avoids the installation of shock coils.

Their service life is far longer than that of conventional solutions.



Power factor controller QSR4 / BMR6 / BMR 12

Power factor controller QSR4 / BMR6 / BMR12

- High performance micro-processor developed for controlling a high quality automatic capacitor bank.
- A full range of programmable settings to create optimal compensation in all kinds of network.
- 144 x 144 x 85 mm
- Alarm contacts and possibility for communication with RS486.