

Heavy Duty Low Voltage PFC Capacitors

multicomp PRO

**RoHS
Compliant**

Three phase power capacitors for Power Factor Correction

General Technical Parameters



Standards	IEC EN 60831-1/2, VDE 0560-46/47, GOST 1282-88
Rated Voltage	440V to 480V / 50 Hz
Rated Power	12.5kvar to 50kvar
Capacitance Tolerance	-5 / +10 %
Max. Permissible Current	1,5 × I _N Continuous, 2 × I _N Short period*
Max. Inrush Current	400 × I _N
Capacitor Losses	cca 0,4 W / kvar
Discharge Resistors	Built-in 75 V / 3 min (50 V / 1 min up to 30 kvar)
Statistical Life Expectancy	> 150 000 hours according to operating conditions
Protection Degree	IP 20 (IP 54 selected types on request)
Max. Relative Humidity	95 %
Cooling	Natural Air or Forced
Max. Altitude	4000 m
Mounting Position	Any position
Case	Aluminium can
Dielectric System	Dry Metallized Polypropylene, Selfhealing
Impregnant / Filling	Inert gas N ₂ or semi-dry resin (50 kvar)
Safety Device	3 Fuses Overpressure Disconnecter
Terminals	One side - 3 clamps
Temperature Category	-40/D (60°C)

Note: * Maximum current for 48 hours continuous operation with relation to highest mean ambient temperature of 45°C over period of 24 h.

Permitted Overvoltages

RMS overvoltage	Max. Period
1.1 × U _N	8 h/d
1.15 × U _N	30 min/d
1.20 × U _N	5 min (200x)
1.30 × U _N	1 min (200x)

Temperature category

Temperature category	Ambient temperature		
	Max.	24 h*	1 year*
C	50°C	40°C	30°C
D	55°C	45°C	35°C
D (60°C)	60°C	45°C	35°C

Note: Max. Mean Value During Period

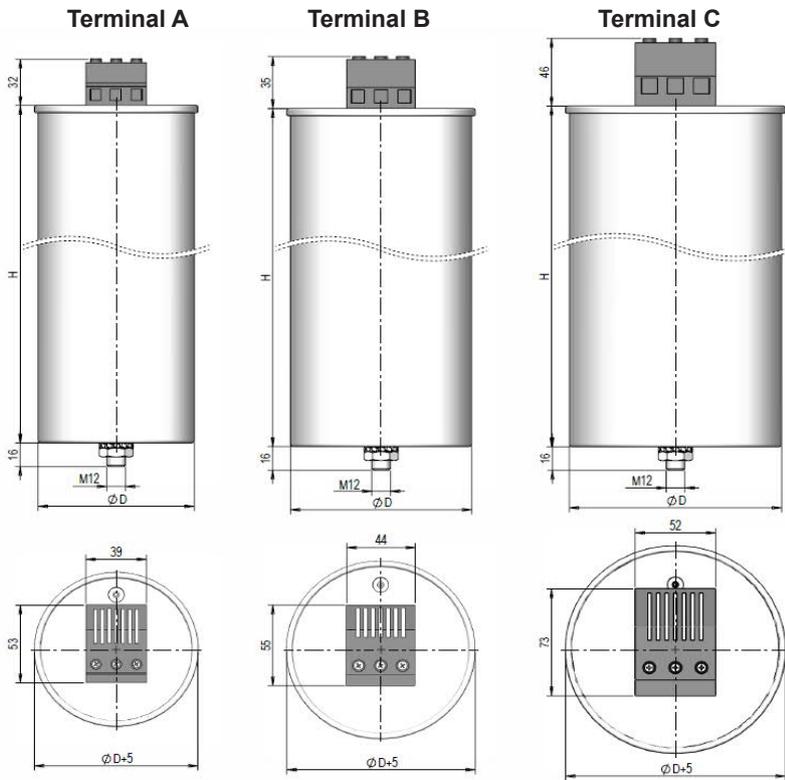
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Drawing



Terminal	A	B	C
Max. Cross section (mm ²)	16	25	35
Max. Torque (Nm)	2	3	3,7
Screw head type	PH1	PH2	Hex

Three phase power capacitors for Power Factor Correction (Delta connection).

QC (kvar)	Voltage UN [V]	C _N (Δ) (μF)	I _N (A)	Ø D × H (mm)	m (kg)	Terminal	Part Number
12.5	440V / 50Hz	3 × 68.5	16.4	85 × 245	1.2	A	MP005042
25		3 × 137	32.8	100 × 245	1.9		MP005043
28.1		3 × 154	36.8	116 × 245	2.1	B	MP005044
30		3 × 164	39.4	116 × 245	2.2		MP005045
50		3 × 274	65.6	136 × 355	5	C	MP005046
30	480V / 50Hz	3 × 138	36.1	116 × 245	2.6	B	MP005047
33.3		3 × 153	40.1	136 × 220	2.9		MP005048

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