Heavy Duty Low Voltage PFC Capacitors

multicomp PRO

Three phase power capacitors for Power Factor Correction

RoHS Compliant

General Technical Parameters

Standards	IEC EN 60831-1/2, VDE 0560-46/47, GOST 1282-88
Rated Voltage	230 - 800 V / 50 Hz
Rated Power	1kvar 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	Inertgas N_2 or semi-dryres in (50 kvar)
Safety Device	3 Fus es overpressure disconnector
Terminals	One side - 3 clamps
Temperature category	-40/D (60°C)

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

Routine test

U_N	U_{TT}	U_{TC}
≤ 500 V	2,15 × U_N AC (2s)	3000 V AC (10 s) or 1,2 × U_{TC} AC (2 s)
≥ 500 V	2,15 × U_N AC (2s)	2 × U_N + 2000V AC (10 s) or 1,2 × U_{TC} AC (2 s)

Max. permissible voltage

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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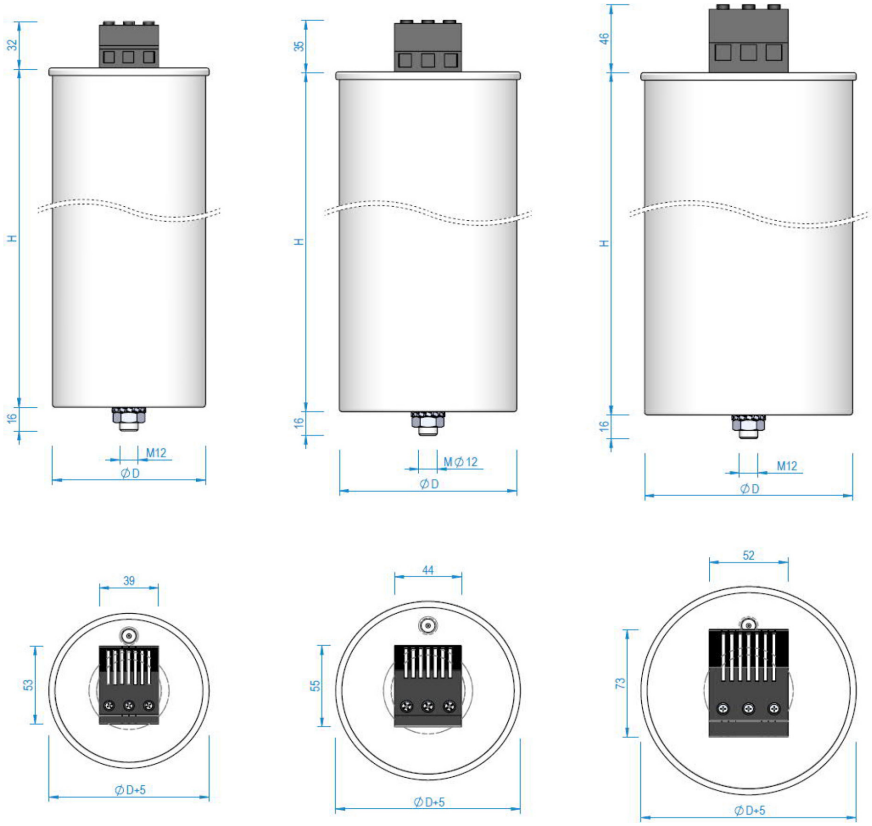
Drawing



Terminal	A	B	C
Max. Cross section (mm^2)	16	25	35
Recommended torque (Nm)	1,2 - 1,7	2,0 - 2,5	2,5 - 4,0
Screw head type	PH1	PH2	Hex

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

415 V / 50 Hz

QC (kvar)	C_N (Δ) (µF)	I_N (A)	Ø D × H (mm)	m (kg)	Terminal	Part Number
12.5	3 × 27,9	10.5	85 × 245	1.1	A	MP008628
25	3 × 55,7	20.9	116 × 245	2.1	B	MP008629
30	3 × 66,9	25.1	116 × 245	2.3		MP008630
50	3 × 111,4	41.8	136 × 355	5.5	C	MP008631