

# HD - Heavy Duty

Three phase power capacitors, selfhealing, dry - gas filled



## General technical parameters

<b>Standards</b>	IEC EN 60831-1/2, VDE 0560-46/47, GOST 1282-88
<b>Rated Voltage</b>	230 - 800 V / 50 Hz
<b>Rated Power</b>	1 - 50 kvar
<b>Capacitance Tolerance</b>	-5 / + 10%
<b>Max. Permissible Current</b>	1,5 x I <sub>N</sub> Continuous, 2 x I <sub>N</sub> Short period *
<b>Max. inrush Current</b>	400 x I <sub>N</sub>
<b>Capacitor Losses</b>	cca 0,4 W / kvar
<b>Discharge Resistors</b>	built-in 75 V / 3 min (50 V / 1 min up to 30 kvar)
<b>Statistical Life Expectancy</b>	> 150 000 hours according to operating conditions
<b>Protection Degree</b>	IP 20 (IP 54 selected types on request)
<b>Max. Relative humidity</b>	95 %
<b>Cooling</b>	Natural Air or forced
<b>Max. Altitude</b>	4 000 m
<b>Mounting position</b>	Any position
<b>Case</b>	Aluminium can
<b>Dielectric System</b>	Dry metallized polypropylene, selfhealing
<b>Impregnant / Filling</b>	Inert gas N <sub>2</sub> or semi-dry resin (50 kvar)
<b>Safety Device</b>	3 Fuses overpressure disconnector
<b>Terminals</b>	One side - 3 clamps
<b>Temperature category</b>	-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.

## Routine test

U <sub>N</sub>	U <sub>TT</sub>	U <sub>TC</sub>
≤ 500 V	2,15 x U <sub>N</sub> AC (2s)	3000 V AC (10 s) or 1,2 x U <sub>TC</sub> AC (2 s)
≥ 500 V	2,15 x U <sub>N</sub> AC (2s)	2 x U <sub>N</sub> + 2000V AC (10 s) or 1,2 x U <sub>TC</sub> AC (2 s)

## Max. permissible voltage

RMS overvoltage	Max. period
1,1 x U <sub>N</sub>	8 h/d
1,15 x U <sub>N</sub>	30 min/d
1,20 x U <sub>N</sub>	5 min (200x)
1,30 x U <sub>N</sub>	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

\* Max. mean value during period



## HD - Heavy Duty

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

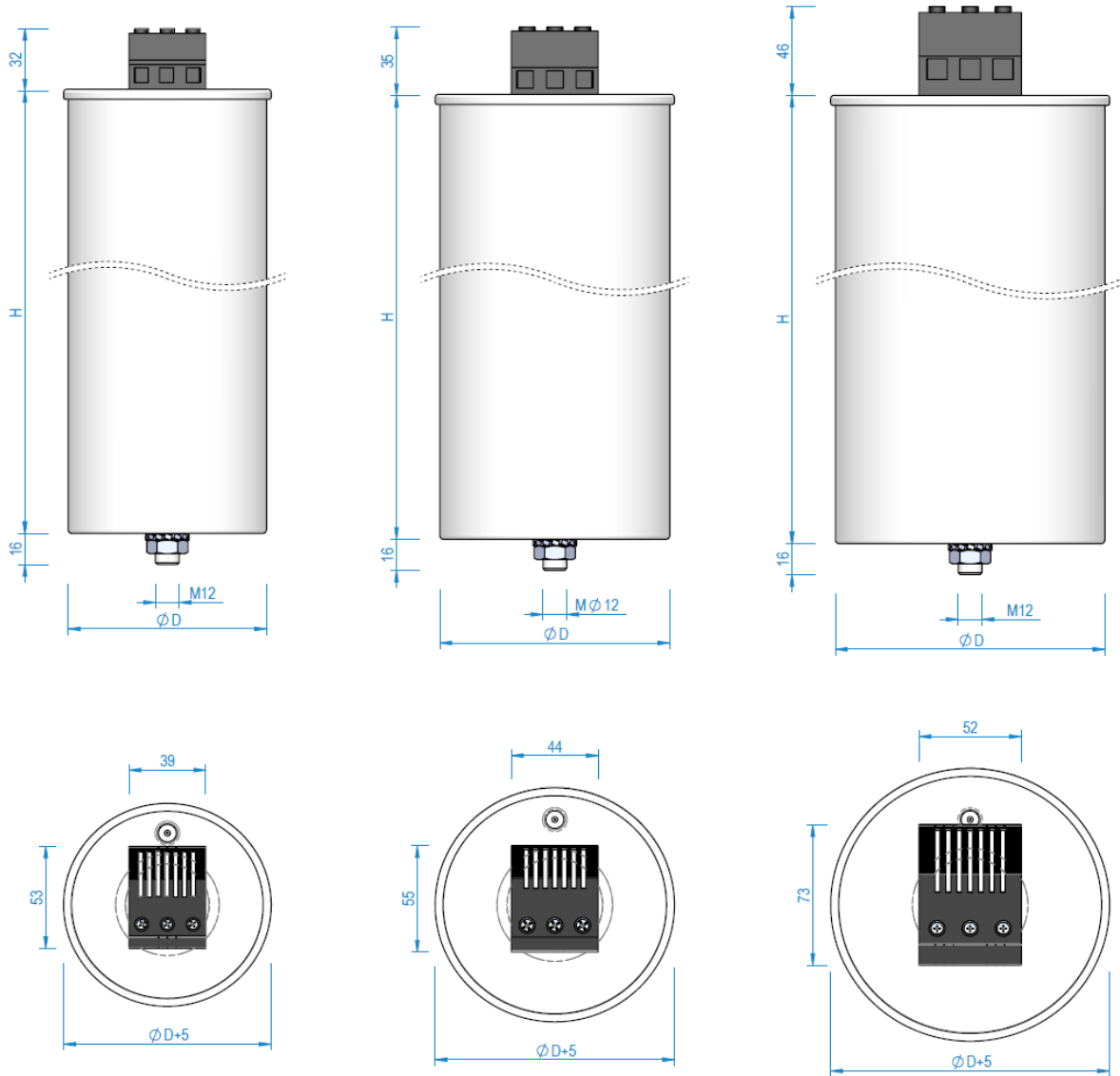
### 460 V / 50 Hz

$Q_C$ (kvar)	Type	$C_N$ ( $\Delta$ ) ( $\mu$ F)	$I_N$ (A)	$\varnothing$ D x H (mm)	m (kg)	Terminal
6,25	CSADG-0,46/6,25-HD	3 x 31,3	7,8	85 x 175	0,8	A
12,5	CSADG-0,46/12,5-HD	3 x 62,7	15,7	85 x 245	1,2	A
14	CSADG-0,46/14-HD	3 x 70,2	17,6	85 x 245	1,3	A
15	CSADG-0,46/15-HD	3 x 75,2	18,8	85 x 245	1,3	A
20	CSADG-0,46/20-HD	3 x 100	25,1	100 x 245	1,6	A
25	CSADG-0,46/25-HD	3 x 125	31,4	116 x 245	1,9	B
28	CSADG-0,46/28-HD	3 x 140	35,2	116 x 245	2,0	B
30	CSADG-0,46/30-HD	3 x 150	37,7	116 x 245	2,1	B
33,3	CSADG-0,46/33,3-HD	3 x 167	41,8	136 x 261	3,5	B
50	CSADG-0,46/50-HD	3 x 251	62,8	136 x 355	5,2	C

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### Drawing



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