

### **Power Capacitors**

### **Power Factor Correction**

### Construction

- Dielectric: Polypropylene film
- Gas-impregnated / dry type
- Concentric winding
- Wave cut
- Extruded round aluminum can with stud
- Provided with ceramic discharge module
- Triple safety system

### Features

- Three phase, delta connected
- Self-healing technology
- Naturally air cooled (or forced air cooling)
- Indoor mounting

### **Typical applications**

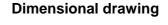
For Power Factor Correction

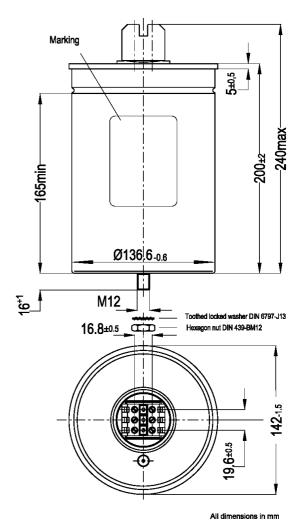
### Terminals

SIGUT terminals

#### Mounting parts

Threaded stud at bottom of can (max. torque = 10 Nm for M12)





B25667B4417A375

MKK440-D-25-01

### Technical data and specifications

Characteristics		
Rated capacitance C <sub>R</sub>	3 x 137 µF	
Tolerance	-5 / +10%	
Connection	D (Delta)	
Rated voltage V <sub>R</sub>	440 VAC	
Rated frequency f <sub>R</sub>	50 Hz	60 Hz
Output	25 kvar	30 kvar
Rated current I <sub>R</sub>	33 A	39 A
tanδ (dielectric)	0.2 W / kvar	



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Maximum ratings	
U <sub>max</sub> (up to 8 h daily)	480 VAC
U <sub>max</sub> (up to 1 min)	570 VAC
I <sub>max</sub>	1.3 x I <sub>R</sub> (A)
I <sub>S</sub>	200 x I <sub>R</sub> (A)

### Test data

U <sub>TT</sub>	950 VAC / 50 Hz during 10 s
U <sub>TC</sub>	3,000 VAC / 50 Hz during 10 s
tanδ (50 Hz)	≤ 0.6 W / kvar

Climatic category / -40/D		
T <sub>min</sub>	(-)	40 °C
T <sub>max</sub>	(+)	55 °C
Humidity		av. rel. < 95%
Maximum	n altitude	4,000 m

### Mean life expectancy

t <sub>LD</sub>	Up to 115,000 hours	
Max. 5000 switchings per year acc. to IEC 60831		

Design data	
Dimensions (Ø x I)	142 x 200 mm
Weight approx	2.0 kg
Impregnation	Dry, inert gas
Fixing	Threaded bolt M12
Max. torque (Al can stud)	10 Nm
Mounting position	Any mounting position possible. See "Maintenance and Installation Manual" for further details.

## Label design





PhaseCap™	Power Quality	
MKK440-D-25-01	4RB5 250-5 AB 45	
B25667B4417A375		

11114313		
137 µF + 10/	- 5%	SH
Q <sub>N</sub> /50 Hz	Q <sub>N</sub> /60	Hz
25,0 kvar	30,0 k	var
22,2 kvar	26,6 k	var
20,7 kvar	24,8 k	var
-40/D		
e disconnector	Dry, Ine	ert Gas
6)		CE
-40+55°C		
otected		°
No.190	C 7	US
COS	E	10/05
	Q <sub>N</sub> /50 Hz 25,0 kvar 22,2 kvar 20,7 kvar -40/D e disconnector 6) -40+55°C stected No.190	e disconnector Dry, Ine 6) -40+55°C otected No.190



FK PFC RD / VA



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Terminals	
Degree of protection	Isolated terminals, IP20
Max. torque	1.2 Nm
Terminal cross section	16 mm <sup>2</sup> (5 AWG)
Maximum terminal current	50 A
Creepage distance	12.7 mm
Clearance	9.6 mm
	•
Safety	

Mechanical safety	Overpressure disconnector
Max. short circuit current	(AFC: 10 kA)
Discharge resistor time	≤ 1 min (75 V)

#### **Reference Standards**

IEC 60831-1/2, UL 810-5th edition

Certification: cUL file E238746

A Please read information about PFC capacitors and cautions as well as installation and maintenance instructions (Power Factor Correction Product Profile, actual version, and Installation and Maintenance Instructions for PFC-capacitors, available in the Internet) to ensure optimum performance and prevent products from failing, and in worst case, bursting and fire. Information given in the PFC-product profile and values given in the data sheet reflect typical specifications. You are kindly requested to approve our product

specifications or request our approval for your specification before ordering.

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