

Power Capacitors

B25667B4207A375

Power Factor Correction PhaseCap

MKK440-D-12.5-01/MKK480-D-15-01

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

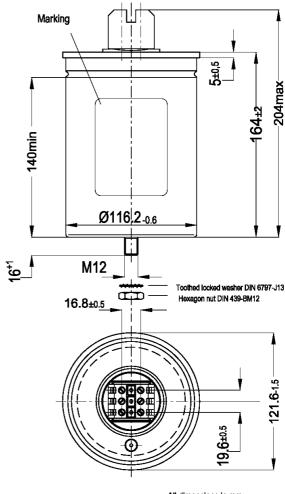
Terminals

SIGUT terminals

Mounting parts

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

Dimensional drawing



All dimensions in mm

Technical data and specifications

Characteristics	MKK440-D-12.5-01		MKK480-D-15-01	
Rated capacitance C _R	3 x 69 μF		3 x 69 μF	
Tolerance	-5 / +10%		-5 / +10%	
Connection	D (Delta)		D (Delta)	
Rated voltage V _R	440 VAC		480 VAC	
Rated frequency f _R	50 Hz	60 Hz	50 Hz	60 Hz
Output	12.5 kvar	15 kvar	15 kvar	18 kvar
Rated current I _R	16 A	20 A	18 A	22 A
tanδ (dielectric)	0.2 W / kvar		0.2 W / kvar	

Edition 3. 20.10.05



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Maximum ratings	
U _{max} (up to 8 h daily)	530 VAC
U _{max} (up to 1 min)	620 VAC
I _{max}	1.3 x I _R (A)
I _S	200 x I _R (A)

Test data	
U _{TT}	1,050 VAC / 50 Hz during 10 s
U _{TC}	3,000 VAC / 50 Hz during 10 s
tanδ (50 Hz)	≤ 0.5 W / kvar

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

Mean life expectancy		
t _{LD}	Up to 115,000 hours	
Max. 5000 switchings	per year acc. to IEC 60831	

Design data	
Dimensions (∅ x I)	121 x 164 mm
Weight approx	1.4 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



SIEMENS

PhaseCap™ MKK480-D-15-01 Power Quality 4RB5 150-5 AB 47

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 $C_{\rm N} = 3 \times 69 \, \mu \text{F} + 10/-5\% \, \Delta \, \text{SH}$ $U_{\rm N} / V \, Q_{\rm N} / 50 \, \text{Hz} \, Q_{\rm N} / 60 \, \text{Hz}$ MKK480 15,0 kvar 18,0 kvar MKK440 12,5 kvar 15,0 kvar

U₁ = 3/- kV -40/D

Overpressure disconnector
IEC 60831 (96)

AFC 10 kA -40...+55°C
Internally protected

CSA C22.2 No.190

Made by EPCOS

Dry, inert gas

E 10/05



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Terminals	
Degree of protection	Isolated terminals, IP20
Max. torque	1.2 Nm
Terminal cross section	16 mm ² (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

⚠ 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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