

Power Capacitors

B25667B5127A375

Power Factor Correction PhaseCap

MKK415-D-6.2-01/MKK480-D-8.3-01/ MKK525-D-10-01

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

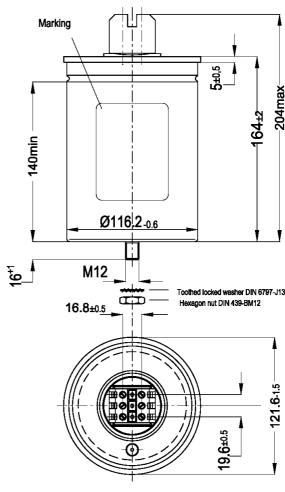
Terminals

■ 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	MKK41	MKK415-D-6.2-01		MKK480-D-8.3-01		MKK525-D-10-01	
Rated capacitance C _R	3 x 39 µF	3 x 39 μF		3 x 39 μF		3 x 39 μF	
Tolerance	-5 / +10%	-5 / +10%		-5 / +10%		-5 / +10%	
Connection	D (Delta)	D (Delta)		D (Delta)		D (Delta)	
Rated voltage V _R	415 VAC	415 VAC		480 VAC		525 VAC	
Rated frequency f _R	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
Output	6.2 kvar	7.5 kvar	8.3 kvar	10 kvar	10 kvar	12 kvar	
Rated current I _R	8 A	10 A	10 A	12 A	11 A	13 A	
tanδ (dielectric)	0.2 W / kv	0.2 W / kvar		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)	580 VAC
U _{max} (up to 1 min)	680 VAC
I _{max}	1.3 x l _R (A)
I _S	200 x I _R (A)

Test data	
U _{TT}	1,150 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 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	1.2 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™ MKK525-D-10-01 Power Quality 4RB5 100-5 AB 52

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 $C_{
m N} = 3 \times 39 \ \mu {
m F} + 10/\text{-} 5\% \quad \Delta \quad {
m SH}$ $U_{
m N} \quad Q_{
m N} / 50 \ {
m Hz} \quad Q_{
m N} / 60 \ {
m Hz}$ MKK525 10,0 kvar 12,0 kvar MKK480 8,3 kvar 10,0 kvar MKK415 6,2 kvar 7,5 kvar

 $U_i = 3/- kV -40/D$

Overpressure disconnector IEC 60831(96)

AFC 10 kA -40...+55℃ Internally protected CSA C22.2 No.190 Made by EPCOS Dry, Inert Gas C€



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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.

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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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