

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

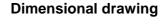
For Power Factor Correction

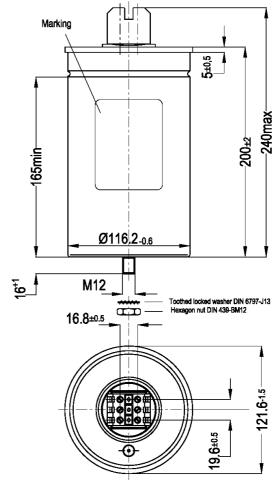
Terminals

SIGUT terminals

Mounting parts

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





All dimensions in mm

Technical data and specifications

Characteristics		
Rated capacitance C _R	3 x 111 µF	
Tolerance	-5 / +10%	
Connection	D (Delta)	
Rated voltage V _R	440 VAC	
Rated frequency f _R	50 Hz	60 Hz
Output	20 kvar	24 kvar
Rated current I _R	26 A	31 A
tanδ (dielectric)	0.2 W / kvar	

B25667B4337A375

MKK440-D-20-01



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Maximum ratings	
U _{max} (up to 8 h daily)	480 VAC
U _{max} (up to 1 min)	570 VAC
I _{max}	1.3 x I _R (A)
l _S	200 x I _R (A)

Test data

U _{TT}	950 VAC / 50 Hz during 10 s
U _{TC}	3,000 VAC / 50 Hz during 10 s
tanδ (50 Hz)	≤ 0.6 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 (Ø x I)	121 x 200 mm
Weight approx	1.7 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

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ÉPCOS	SI	EMENS	
PhaseCap™ MKK440-D-2		er Quality 5 200-5 AB 45	
B25667B4	4337A375		
C _N = 3 x 1	11 µF + 10	/-5% $_{\Delta}$ SH	ł
UN	Q _N /50 Hz	Q _N /60 Hz	
440 V	20,0 kvar	24,0 kvar	
415 V	17,8 kvar	21,4 kvar	
400 V	16,5 kvar	19,8 kvar	
U ₁ = 3/- kV	-40/D		
Overpressure	e disconnector	Dry, Inert Gas	ś
IEC 60831(9	6)	(6	
AFC 10 kA	-40+55°C		
Internally pro	tected	- \ °	
CSA C22.2	lo.190	C 7 4 US	ŝ
Made by EP	COS	E 10/08	5



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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
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Safety	
Mechanical safety	Overpressure disconnector

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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