

**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**

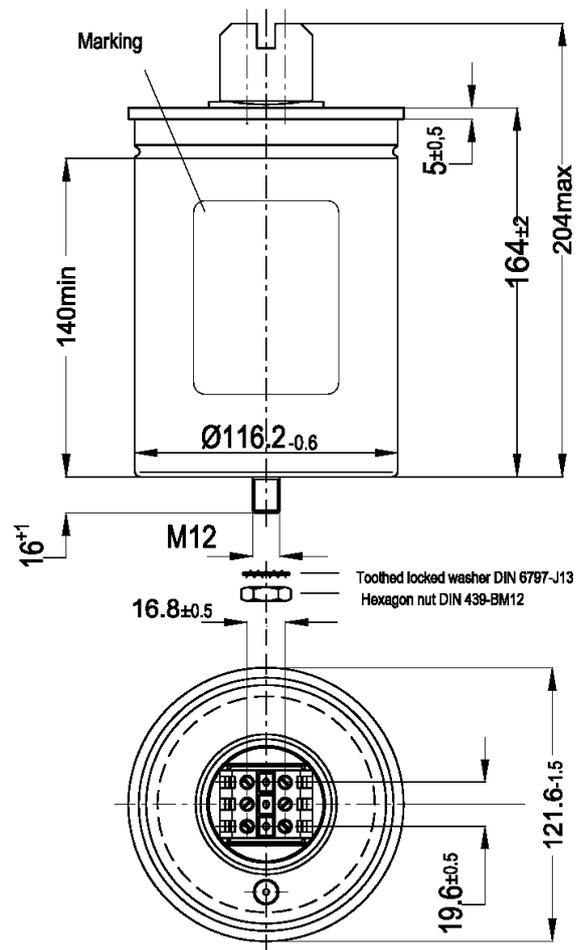
- For Power Factor Correction

**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	MKK230-D-5-01	MKK400-D-15-01
Rated capacitance $C_R$	3 x 99.5 $\mu$ F	3 x 99.5 $\mu$ F
Tolerance	-5 / +10%	-5 / +10%
Connection	D (Delta)	D (Delta)
Rated voltage $V_R$	230 VAC	400 VAC
Rated frequency $f_R$	50 Hz    60 Hz	50 Hz    60 Hz
Output	5 kvar    6 kvar	15 kvar    18 kvar
Rated current $I_R$	13 A    16 A	22 A    26 A
tan $\delta$ (dielectric)	0.2 W / kvar	0.2 W / kvar



<b>Power Capacitors</b>	<b>B25667B3297A375</b>
<b>Power Factor Correction PhaseCap</b>	<b>MKK230-D-5-01/MKK400-D-15-01</b>

Maximum ratings	
$U_{max}$ (up to 8 h daily)	440 VAC
$U_{max}$ (up to 1 min)	520 VAC
$I_{max}$	$1.3 \times I_R$ (A)
$I_S$	$200 \times I_R$ (A)

Test data	
$U_{TT}$	900 VAC / 50 Hz during 10 s
$U_{TC}$	3,000 VAC / 50 Hz during 10 s
$\tan\delta$ (50 Hz)	$\leq 0.6$ 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 ( $\varnothing \times l$ )	121 x 164 mm
Weight approx	1.3 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



**EPCOS**  
PhaseCap™  
MKK400-D-15-01

**SIEMENS**  
Power Quality  
4RB5 150-5 AB40

**B25667B3297A375**

$C_N = 3 \times 99,5 \mu F + 10/-5\%_{\Delta}$  SH

$U_N / V$      $Q_N / 50$  Hz     $Q_N / 60$  Hz

MKK400    15,0 kvar    18,0 kvar

MKK230    5,0 kvar    6,0 kvar

$U_i = 3/-$  kV    -40/D

Overpressure disconnecter  
IEC 60831 (96)

AFC 10 kA    -40...+55°C

Internally protected  
CSA C22.2 No.190

Made by EPCOS

Dry, inert gas  
CE





<b>Terminals</b>	
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

<b>Safety</b>	
Mechanical safety	Overpressure disconnecter
Max. short circuit current	(AFC: 10 kA)
Discharge resistor time	≤ 1 min (75 V)

<b>Reference Standards</b>
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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