

### 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

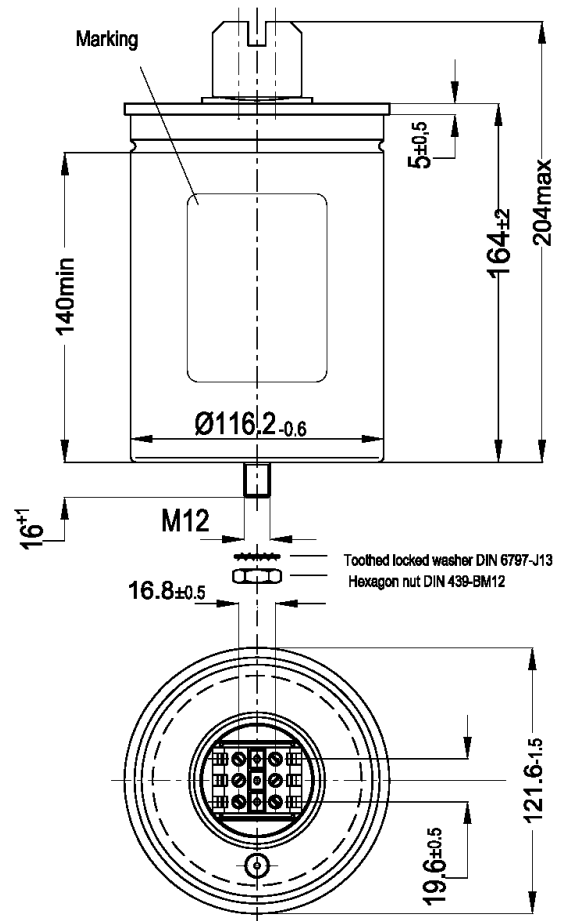
### Terminals

- 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	MKK400-D-10-01		MKK415-D-10.4-01	
Rated capacitance $C_R$	3 x 64 $\mu$ F		3 x 64 $\mu$ F	
Tolerance	-5 / +10%		-5 / +10%	
Connection	D (Delta)		D (Delta)	
Rated voltage $V_R$	400 VAC		415 VAC	
Rated frequency $f_R$	50 Hz	60 Hz	50 Hz	60 Hz
Output	10 kvar	12 kvar	10.4 kvar	12.5 kvar
Rated current $I_R$	14 A	17 A	15 A	17 A
$\tan\delta$ (dielectric)	0.2 W / kvar		0.2 W / kvar	

**Maximum ratings**

$U_{\max}$ (up to 8 h daily)	460 VAC
$U_{\max}$ (up to 1 min)	540 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
$U_{TC}$	3,000VAC / 50 Hz during 10 s
$\tan \delta$ (50 Hz)	$\leq 0.5W / \text{kvar}$

**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	1.2 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**


**PhaseCap™**  
MKK415-D-10,4-01

**SIEMENS**

**Power Quality**  
4RB5 104-5 AB 42

**B25667B4197A375**

$C_N = 3 \times 64 \mu F + 10/-5\% \Delta SH$

$U_N / V \quad Q_N / 50 \text{ Hz} \quad Q_N / 60 \text{ Hz}$

MKK415 10,4 kvar 12,5 kvar

MKK400 10,0 kvar 12,0 kvar

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

Overpressure disconnecter

IEC 60831(96)

AFC 10 kA  $-40...+55^\circ C$

Internally protected

CSA C22.2 No.190

Made by EPCOS

Dry, inert gas



E 10/05

**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 disconnecter
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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