



Power capacitor PHICAP MKP 415 V 25.0 kVAr

Model	
type of internal interconnection	D (Delta)
type of certification	CE
standard	IEC 60831-1 / -2
General technical data	
capacitor voltage (rms value) rated value	415 V
capacitor voltage (rms value) maximum	VN +10% (up to 8 h daily), VN +15% (up to 30 min daily), VN +20% (up to 5 min daily), VN +30% (up to 1 min daily)
operating frequency 1 rated value	50 Hz
capacity rated value	154 µF
relative negative tolerance of the capacity rated value	5 %
relative positive tolerance of the capacity rated value	10 %
reactive power of the capacitor at 50 Hz rated value	25 kvar
clearance minimum	9.6 mm
creepage distance minimum	12.7 mm
type of dielectric	Self-healing metallized polypropylene film
filler	filled with Non PCB, Soft biodegradable resin
safety features of the integrated discharge resistors	Discharge time ≤ 180 s to 75 V or less for safe discharging
voltage test between the terminals	2.15 x VN at 50Hz / 2 s
voltage test between the terminals and housing	3000 V AC / 50Hz, 10s
Current	
inrush current peak of the capacitor	200 x In
Short-circuit current maximum	10 kA
capacitor current at 50 Hz rated value	34.8 A
capacitor current at 60 Hz rated value	41.7 A
terminal current maximum	50 A
Protection class	
protection class IP of the terminal	IP20
Dissipation	
capacitor losses [W] in dielectric per kvar	0.2 W
capacitor losses [W] per kvar total	0.45 W
Product details	
type of cooling	natural or forced air cooling
type of enclosure material	Extruded round aluminum can with stud
type of mechanical safety	Overpressure disconnecter (3-phase)
product component external discharge resistor	Yes
Connections	
type of connecting terminal	PhiCap_SIGUT
tightening torque maximum	1.2 N·m
tightening torque of the screw for securing the equipment	10 N·m

maximum		
connectable conductor cross-section of the terminal for copper conductor stranded without cable lug		16 mm²
Mechanical Design		
length of the capacitor		
•		348 mm
• with connections maximum		388 mm
total length of the capacitor with mounting and connections maximum		405 mm
fastening method		Threaded bolt M12
diameter of the capacitor		85 mm
diameter of the capacitor maximum		89 mm
mounting position		Upright
net weight		1.5 kg
Environmental conditions		
installation altitude maximum		4 000 m
MTBF at temperature class -40/C maximum		135 h
MTBF at temperature class -40/D maximum		100 h
relative humidity without condensation maximum		95 %
temperature classes of the capacitors		Class -40/D: Max. short time: +55 °C, max. mean 24h: +45 °C; max mean 1 year: +35 °C; lowest temperature: -40 °C
ambient temperature during operation		
• minimum		-40 °C
• maximum		55 °C
ambient temperature during storage		
• minimum		-40 °C
• maximum		85 °C
Approvals Certificates		
General Product Approval		other
		Environment



[Confirmation](#)

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[Miscellaneous](#)

[Environmental Confirmations](#)

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=4RB2250-3EB50>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/4RB2250-3EB50>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=4RB2250-3EB50](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=4RB2250-3EB50)

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>

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