

POWER CAPACITOR PhaseCap Energy+ MKK 415V 6,3KVAR 3-phase

Model	
type of internal interconnection	D (Delta)
type of certification	CE, UKCA, UL Recognized Component
standard	IEC 60831-1 / -2, UL 810 5th edition
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
operating frequency 2 rated value	60 Hz
capacity rated value	38.8 μ F
relative negative tolerance of the capacity rated value	5 %
relative positive tolerance of the capacity rated value	5 %
reactive power of the capacitor at 50 Hz rated value	6.3 kvar
reactive power of the capacitor at 60 Hz rated value	7.56 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 \leq 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	3600 V AC / 50Hz, 2s
Current	
inrush current peak of the capacitor	500 x In
short-circuit current maximum	10 kA
capacitor current at 50 Hz rated value	8.8 A
capacitor current at 60 Hz rated value	10.5 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	A
tightening torque maximum	1.2 N·m
tightening torque of the screw for securing the equipment maximum	10 N·m
connectable conductor cross-section of the terminal for copper conductor stranded without cable lug	16 mm ²
Mechanical Design	
length of the capacitor	164 mm
length of the capacitor with connections maximum	204 mm
total length of the capacitor with mounting and connections maximum	221 mm
fastening method	Threaded bolt M12

diameter of the capacitor	75 mm
diameter of the capacitor maximum	79 mm
mounting position	Upright/Horizontal
Net Weight	0.9 kg

Environmental conditions

installation altitude maximum	4 000 m
MTBF at temperature class -40/D maximum	240 h
MTBF at temperature class -40/60 maximum	220 h
relative humidity without condensation maximum	95 %
temperature classes of the capacitors	Class -40/60: Max. short time: +60 °C, max. mean 24 h: +50 °C; max mean 1 year: +40 °C; lowest temperature: -40 °C
ambient temperature during operation	
• minimum	-40 °C
• maximum	60 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	85 °C

Approvals Certificates

General Product Approval	other	Environment
--------------------------	-------	-------------



EG-Konf.



UL

[Confirmation](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=4RB8063-3EB20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/4RB8063-3EB20>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=4RB8063-3EB20

CAX-Online-Generator

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

Tender specifications

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

last modified:

6/15/2025

