



CCF-25-440, Power capacitor with contactor and fuses

Code: R3SA51.

- > Fuses (A): 63
- > Cable section (mm2): 10
- > In (A): 33
- > kvar (400 V): 21
- > kvar (440 V): 25
- > Cut off power: 120 kA
- > Use voltage (V): 440

Description

The fixed capacitors of the CCF series are single-step units that have been designed for Power factor correction procedures under constant load.

Application

Its application is mainly focused on the compensation of motors, transformers and installations under constant load, providing a signal that connects to the capacitor with a contactor switching operation.







CSB Capacitor with contactor and fuses

Code: R3SA51.

Specifications

hours 30 % up to 1 min over 24 hours Manoeuvre voltage Contactors: 230 V Tolerance C ± 10 % sobre la capidad Voltage 400 V Insulation voltage, circuit 3 kV Mechanical characteristics Size (mm) width x height x depth Envelope RAL 7035 Grey / RAL 3005 Garnet Fastening Vertical Vertical Vertical Weight (kg) 15 Environmental characteristics Protection class IP 21 Relative humidity (without condensation) 80% Working temperature T'-class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, mi -25 °C Standards Certifications VDE 560 Electrical safety, Maximum height (m) Standards Current measurement circuit Permanent overload 1,3 In Features / performance	Discharge resistance	75 V / 3 min
Tolerance C	Surge	10 $\%$ 8 h over 24 h 15 $\%$ up to 15 min over 24 hours 20 $\%$ up to 5 min over 24 hours 30 $\%$ up to 1 min over 24 hours
Voltage 400 V Insulation voltage, circuit 3 kV Mechanical characteristics Size (mm) width x height x depth 360 x 814 x 196 (mm) Envelope RAL 7035 Grey / RAL 3005 Garnet Fastening Vertical Ventilation Natural Weight (kg) 15 Environmental characteristics Protection class IP 21 Relative humidity (without condensation) 80% Working temperature T' class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, mi -25 °C Standards Certifications VDE 560 Electrical safety, Maximum height (m) 2000 Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Manoeuvre voltage	Contactors: 230 V
Mechanical characteristics Size (mm) width x height x depth 360 x 814 x 196 (mm) Envelope RAL 7035 Grey / RAL 3005 Garnet Fastening Vertical Ventilation Natural Weight (kg) 15 Environmental characteristics Protection class IP 21 Relative humidity (without condensation) 80% Working temperature T° also Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, mi –25 °C Standards Certifications VDE 560 Electrical safety, Maximum height (m) 2000 Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components °CSB capacitor Contactors with pre-insertion block and fast discharge resis	Tolerance C	± 10 % sobre la capidad
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Size (mm) width x height x depth Envelope RAL 7035 Grey / RAL 3005 Garnet Vertical Ventilation Natural Weight (kg) 15 Environmental characteristics Protection class Protection Protection class Protecti	Insulation voltage, circuit	3 kV
Envelope RAL 7035 Grey / RAL 3005 Garnet Fastening Vertical Ventilation Natural Weight (kg) 15 Environmental characteristics Protection class IP 21 Relative humidity (without condensation) 80% Working temperature T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, minus	Mechanical characteristics	
Fastening Vertical Ventilation Natural Weight (kg) 15 Environmental characteristics Protection class Protection class Relative humidity (without condensation) Working temperature T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, mi -25 °C Standards Certifications VDE 560 Electrical safety, Maximum height (m) Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Size (mm) width x height x depth	360 x 814 x 196 (mm)
Ventilation Natural Weight (kg) 15 Environmental characteristics Protection class IP 21 Relative humidity (without condensation) 80% Working temperature T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, mi -25 °C Standards Certifications VDE 560 Electrical safety, Maximum height (m) 2000 Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Envelope	RAL 7035 Grey / RAL 3005 Garnet
Environmental characteristics Protection class Protectio	Fastening	Vertical
Protection class IP 21 Relative humidity (without condensation) 80% Working temperature T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, mi -25 °C Standards Certifications VDE 560 Electrical safety, Maximum height (m) 2000 Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Ventilation	Natural
Protection class IP 21 Relative humidity (without condensation) 80% Working temperature T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, mi -25 °C Standards Certifications VDE 560 Electrical safety, Maximum height (m) 2000 Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Weight (kg)	15
Relative humidity (without condensation) Working temperature T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, mi -25 °C Standards Certifications VDE 560 Electrical safety, Maximum height (m) Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Environmental characteristics	
Working temperature T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, mi -25 °C Standards Certifications VDE 560 Electrical safety, Maximum height (m) Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Protection class	IP 21
Standards Certifications VDE 560 Electrical safety, Maximum height (m) Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Relative humidity (without condensation)	80%
Certifications Electrical safety, Maximum height (m) Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Working temperature	T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, minimum -25 °C
Electrical safety, Maximum height (m) Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Standards	
Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Certifications	VDE 560
Current measurement circuit Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Electrical safety, Maximum height (m)	2000
Permanent overload 1,3 In Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Standards	IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650
Features / performance Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Current measurement circuit	
Components "CSB capacitor Contactors with pre-insertion block and fast discharge resis	Permanent overload	1,3 In
	Features / performance	
	Components	"CSB capacitor Contactors with pre-insertion block and fast discharge resistor Protection at header via high cut-off power fuses (APR)"

CCF

CSB capacitor with contactor and fuses, 50 $\mbox{\rm Hz}$

CODE	TYPE	kvar (400 V)	kvar (440 V)	Cable section (mm2)
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440 V / 50 Hz







CSB Capacitor with contactor and fuses

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CODE	TYPE	kvar (400 V)	kvar (440 V)	Cable section (mm2)
R3SA21.	CCF-12,5-440	10	12,5	6
R3SA31.	CCF-15-440	12,5	15	10
R3SA41.	CCF-20-440	17	20	10
R3SA51.	CCF-25-440	21	25	10
R3SA61.	CCF-30-440	25	30	16
R3SA81.	CCF-37,5-440	31	37,5	25
R3SA91.	CCF-50-440	42	50	35
R3SAA1.	CCF-60-440	50	60	50
R3SAB1.	CCF-75-440	63	75	50
R3SAD1.	CCF-100-440	80	100	70

Cable cross-section for installations with Un= 400 V. The installation company must ensure compliance with the low voltage directive at all times, in accordance with the particularities of each installation and type of cable







CSB Capacitor with contactor and fuses

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Dimensions



