



## CCF-60-440

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CCF-60-440, Power capacitor with contactor and fuses

Code: R3SAA1.

- > Fuses (A): 160
- > Cable section (mm<sup>2</sup>): 50
- > In (A): 79
- > kvar (400 V): 50
- > kvar (440 V): 60
- > Cut off power: 120 kA
- > Use voltage (V): 440

### Description

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

### Application

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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.



## CCF-60-440

CSB Capacitor with contactor and fuses

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### Specifications

#### Electrical characteristics

Discharge resistance	75 V / 3 min
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
Manoeuvre voltage	Contactors: 230 V
Tolerance C	± 10 % sobre la capacidad
Voltage	400 V
Insulation voltage, circuit	3 kV

#### Mechanical characteristics

Size (mm) width x height x depth	360 x 1004 x 196 (mm)
Envelope	RAL 7035 Grey / RAL 3005 Garnet
Thermal management	Natural
Fastening	Vertical
Weight (kg)	22

#### 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, minimum: -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
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#### Features / performance

Components	"CSB capacitor Contactors with pre-insertion block and fast discharge resistor Protection at header via high cut-off power fuses (APR)"
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#### CCF

CSB capacitor with contactor and fuses, 50 Hz

CODE	TYPE	kvar (400 V)	kvar (440 V)	Cable section (mm <sup>2</sup> )
440 V / 50 Hz				



## CCF-60-440

CSB Capacitor with contactor and fuses

Code: R3SAA1.

CODE	TYPE	kvar (400 V)	kvar (440 V)	Cable section (mm <sup>2</sup> )
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  $U_n = 400$  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



## CCF-60-440

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### Dimensions

