



## CSB-48/60

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CSB-48/60, Power capacitor

Code: R277AL.

- > kvar 50 Hz: 50
- > kvar 60 Hz: 60
- > Use voltage (V): 480

### Description

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The application of new technologies have allowed CIRCUITOR to reinvent the classic **CS** capacitor.

The spirit of innovation and proprietary technology used during the design of the new **CSB** capacitor have increased the working life of conventional prismatic capacitors by over 60%. This new series has improved all aspects of the previous models, offering our customers a capacitor that is longer lasting, safer and more cost-efficient.

### Application

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Its application is based on compensation in installations with static and variable loads (capacitor banks).



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State-of-the-art three-phase prismatic power capacitors

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### Specifications

#### AC power supply

Frequency	50 ó 60 Hz
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#### Electrical characteristics

Losses (W)	Dielectric: < 0,2 W / kvar Total: < 0,4 W / kvar
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
Tolerance C	-5 ... +15 %
Voltage	480 V
Insulation voltage, circuit	3 / 15 kV

#### Mechanical characteristics

Size (mm) width x height x depth	360 x 520 x 120 (mm)
Envelope	Treated and painted steel in RAL 3005 colour
Torque setting	15 Nm
Cable gauge at current terminals	Power M10
Fastening	Vertical / Horizontal. Minimum distance between condensers 4 cm
Ventilation	Natural or forced depending on the cabinet
Weight (kg)	12

#### Environmental characteristics

Protection class	IP 42 with terminal cover
Relative humidity (without condensation)	80%
Working temperature	T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 55 °C, minimum: -25 °C

#### Current measurement circuit

Allowable overload	1,3 In
Permanent overload	1,3 In

#### Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 60831-1, UNE-EN 60831-1

#### Protection

Circuit breaker type	Dielectric regeneration Internal fuse Overpressure system Vermiculite
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### CSB

Power capacitors for LV

CODE	TYPE	kvar 50 Hz	kvar 60 Hz	Use voltage (V)
<b>230 Vac</b>				
R2321C.	CSB-23/10	10	12.5	230
R2321D.	CSB-23/12,5	12.5	15	230
R2321E.	CSB-23/15	15	17.5	230
R2321F.	CSB-23/20	20	25	230
R2321G.	CSB-23/25	25	30	230
R2321H.	CSB-23/30	30	35	230
R2321J.	CSB-23/40	40	50	230
R2321K.	CSB-23/50	50	60	230
<b>400 Vac</b>				
R2323E.	CSB-40/15	15	17.5	400
R2323F.	CSB-40/20	20	25	400
R2323G.	CSB-40/25	25	30	400
R2323H.	CSB-40/30	30	35	400
R2323J.	CSB-40/40	40	50	400
R2323K.	CSB-40/50	50	60	400
R2323L.	CSB-40/60	60	70	400
R2323Q.	CSB-40/80	80	95	400
R2323R.	CSB-40/100	100	120	400
<b>440 Vac</b>				
R2324E.	CSB-44/15	15	17.5	440
R2324F.	CSB-44/20	20	25	440
R2324G.	CSB-44/25	25	30	440
R2324H.	CSB-44/30	30	35	440
R2324J.	CSB-44/40	40	50	440
R2324K.	CSB-44/50	50	60	440
R2324L.	CSB-44/60	60	70	440
R2324Q.	CSB-44/80	80	95	440
R2324R.	CSB-44/100	100	120	440
<b>460 Vac</b>				
R2325E.	CSB-46/15	15	17.5	460
R2325F.	CSB-46/20	20	25	460
R2325G.	CSB-46/25	25	30	460
R2325H.	CSB-46/30	30	35	460
R2325J.	CSB-46/40	40	50	460
R2325K.	CSB-46/50	50	60	460
R2325L.	CSB-46/60	60	70	460



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CODE	TYPE	kvar 50 Hz	kvar 60 Hz	Use voltage (V)
R2325Q.	CSB-46/80	80	95	460
R2325R.	CSB-46/100	100	120	460
<b>480 Vac</b>				
R277AC.	CSB-48/10	8	10	480
R277AE.	CSB-48/15	12.5	15	480
R277AF.	CSB-48/20	16.7	20	480
R277AG.	CSB-48/25	20.8	25	480
R277AH.	CSB-48/30	25	30	480
R277AJ.	CSB-48/40	33.3	40	480
R277AK.	CSB-48/50	41.7	50	480
R277AL.	CSB-48/60	50	60	480
<b>525 Vac</b>				
R2326C.	CSB-52/10	10	12.5	525
R2326E.	CSB-52/15	15	17.5	525
R2326F.	CSB-52/20	20	25	525
R2326G.	CSB-52/25	25	30	525
R2326H.	CSB-52/30	30	35	525
R2326J.	CSB-52/40	40	50	525
R2326K.	CSB-52/50	50	60	525
R2326L.	CSB-52/60	60	70	525
R2326M.	CSB-52/70	70	85	525
<b>690 Vac</b>				
R232BC.	CSB-69/10	10	12.5	690
R232BE.	CSB-69/15	15	17.5	690
R232BF.	CSB-69/20	20	25	690
R232BG.	CSB-69/25	25	30	690
R232BH.	CSB-69/30	30	35	690
R232BJ.	CSB-69/40	40	50	690
R232BK.	CSB-69/50	50	60	690
R232BL.	CSB-69/60	60	70	690
R232BQ.	CSB-69/80	80	95	690
R232BR.	CSB-69/100	100	0	690
<b>1100 Vac for LV networks</b>				
R2327C.	CSB-110/10	10	12	1100
R2327F.	CSB-110/20	20	24	1100
R2327H.	CSB-110/30	30	36	1100
R2327J.	CSB-110/40	40	48	1100
R2327K.	CSB-110/50	50	60	1100
R2327L.	CSB-110/60	60	72	1100



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R2327M.	CSB-110/70	70	84	1100

1100 VAC for low-voltage networks ( $\leq 1000$  VAC)



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### Dimensions

