



## CSB-40/80

CSB-40/80, Power capacitor

Code: R2323Q.

- > kvar 50 Hz: 80
- > kvar 60 Hz: 95
- > Use voltage (V): 400

### Description

The application of new technologies have allowed CIRCUTOR 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

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



# CSB-40/80

State-of-the-art three-phaseprismatic power capacitors

Code: R2323Q.

## Specifications

### AC power supply

|           |            |
|-----------|------------|
| Frequency | 50 ó 60 Hz |
|-----------|------------|

### Electrical characteristics

|                             |                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|
| Permanent overload          | 1,3 In                                                                                                           |
| 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                     | 400 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                    |
| Thermal management               | Natural or forced depending on the cabinet                      |
| Fastening                        | Vertical / Horizontal. Minimum distance between condensers 4 cm |
| Weight (kg)                      | 12,85                                                           |

### Environmental characteristics

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

### 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 |
|----------------------|-----------------------------------------------------------------------|

CSB  
Power capacitors for LV

| CODE    | TYPE      | kvar 50 Hz | kvar 60 Hz | Use voltage (V) |
|---------|-----------|------------|------------|-----------------|
| 230 Vac |           |            |            |                 |
| R2321C. | CSB-23/10 | 10         | 12.5       | 230             |



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|---------|-------------|------------|------------|-----------------|
| 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             |
| 400 Vac |             |            |            |                 |
| 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             |
| 440 Vac |             |            |            |                 |
| 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             |
| 460 Vac |             |            |            |                 |
| 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             |
| R2325Q. | CSB-46/80   | 80         | 95         | 460             |
| R2325R. | CSB-46/100  | 100        | 120        | 460             |
| 525 Vac |             |            |            |                 |
| R2326C. | CSB-52/10   | 10         | 12.5       | 525             |



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|--------------------------|------------|------------|------------|-----------------|
| 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             |
| 690 Vac                  |            |            |            |                 |
| 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             |
| 1100 Vac for LV networks |            |            |            |                 |
| 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            |
| R2327M.                  | CSB-110/70 | 70         | 84         | 1100            |

1100 VAC for low-voltage networks (≤ 1000 VAC)



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### Dimensions

