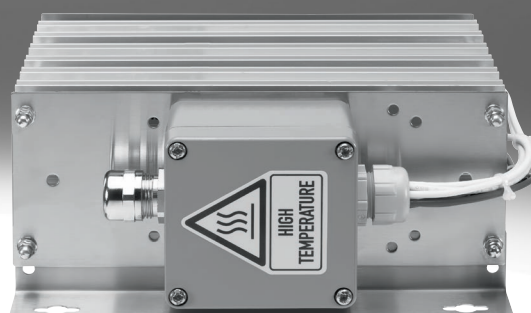


## Braking resistors CACR

**FESTO**



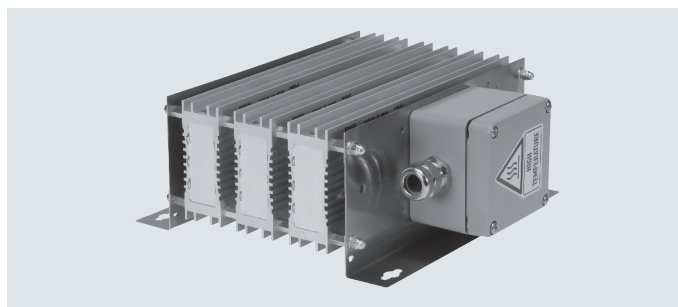
Type codes

|      |                                  |  |
|------|----------------------------------|--|
| 001  | Series                           |  |
| CACR | Resistance                       |  |
| 002  | Connection technology 1          |  |
| LE   | Open end                         |  |
| KL   | Terminal                         |  |
| 003  | Number of pins/wires on the left |  |
| 2    | 2                                |  |

|       |                  |  |
|-------|------------------|--|
| 004   | Resistance value |  |
| 6     | 6 Ohm            |  |
| 33    | 33 Ohm           |  |
| 40    | 40 Ohm           |  |
| 50    | 50 Ohm           |  |
| 67    | 67 Ohm           |  |
| 72    | 72 Ohm           |  |
| 100   | 100 Ohm          |  |
| 240   | 240 Ohm          |  |
| 005   | Nominal power    |  |
| W60   | 60 Watt          |  |
| W500  | 500 Watt         |  |
| W1800 | 1800 Watt        |  |
| W2000 | 2000 Watt        |  |
| W2400 | 2400 Watt        |  |

## Data sheet

Braking resistor  
CACR-LE2  
CACR-KL2



## General technical data

| Type                              |      | CACR-                |             |                 |              |              |
|-----------------------------------|------|----------------------|-------------|-----------------|--------------|--------------|
|                                   |      | LE2-6-W60            | LE2-50-W500 | LE2-72-W500     | LE2-100-W500 | LE2-240-W500 |
| Output at 35% duty cycle and 20°C | [W]  | 180                  | 500         | 500             | 500          | 500          |
| Nominal power                     | [W]  | 60                   | 200         | 200             | 200          | 200          |
| Nominal power at 380 V            | [W]  | –                    | 150         | 150             | 150          | 150          |
| Nominal power at 780 V            | [W]  | –                    | 120         | 120             | 120          | 120          |
| Pulse energy at 380 V             | [Ws] | –                    | 2000        | 2000            | 2000         | 2000         |
| Pulse energy at 780 V             | [Ws] | –                    | 1800        | 1800            | 1800         | 1800         |
| Resistance value                  | [Ω]  | 6                    | 50          | 72              | 100          | 240          |
| Connection technology             |      | Open end             |             |                 |              |              |
| Mounting position                 |      | Vertical, horizontal |             | Vertical        |              |              |
|                                   |      | Free convection      |             |                 |              |              |
| Type of mounting                  |      | –                    |             | Via accessories |              |              |
|                                   |      | With through-hole    |             |                 |              |              |
| Product weight                    | [g]  | 140                  | 550         | 550             | 550          | 550          |

| Type                              | CACR-             |               |               |              |              |
|-----------------------------------|-------------------|---------------|---------------|--------------|--------------|
|                                   | KL2-67-W1800      | KL2-100-W1800 | KL2-240-W1800 | KL2-40-W2000 | KL2-33-W2400 |
| Output at 35% duty cycle and 20°C | [W]               | 1800          | 1800          | 1800         | 2000         |
| Nominal power                     | [W]               | 720           | 720           | 720          | 800          |
| Nominal power at 380 V            | [W]               | 720           | 720           | 720          | 600          |
| Nominal power at 780 V            | [W]               | 720           | 720           | 720          | 480          |
| Pulse energy at 380 V             | [Ws]              | 10800         | 10800         | 10800        | 8000         |
| Pulse energy at 780 V             | [Ws]              | 10800         | 10800         | 10800        | 7200         |
| Resistance value                  | [Ω]               | 67            | 100           | 240          | 40           |
| Connection technology             | Terminal          |               |               |              |              |
| Mounting position                 | Vertical          |               |               |              |              |
|                                   | Free convection   |               |               |              |              |
| Type of mounting                  | Via accessories   |               |               |              |              |
|                                   | With through-hole |               |               |              |              |
| Product weight                    | [g]               | 4000          | 3400          | 3400         | 2400         |

1) As per the UL and CSA approval certificates, the performance data on the rating plate is reduced to 2400 W.

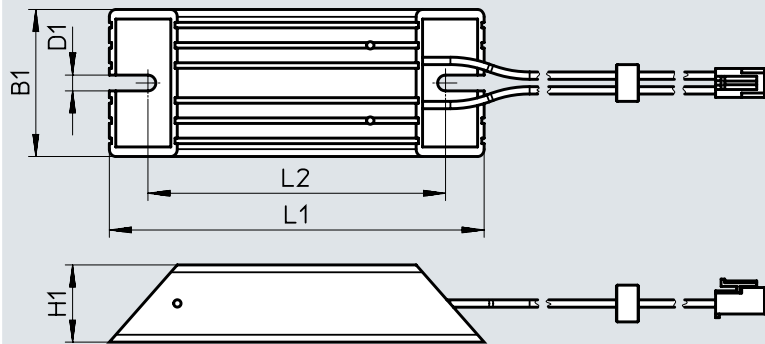
## Operating and environmental conditions

| Type                 | CACR-                     |                 |
|----------------------|---------------------------|-----------------|
|                      | LE2-6-W60                 | LE2-.../KL2-... |
| Ambient temperature  | [°C]                      | 0 ... 50        |
| Degree of protection | IP65                      |                 |
| Certification        | c UL us - Recognized (OL) |                 |
|                      | –                         | c CSA us (OL)   |
| PWIS conformity      | VDMA24364 zone III        |                 |
| Note on materials    | RoHS-compliant            |                 |

Data sheet

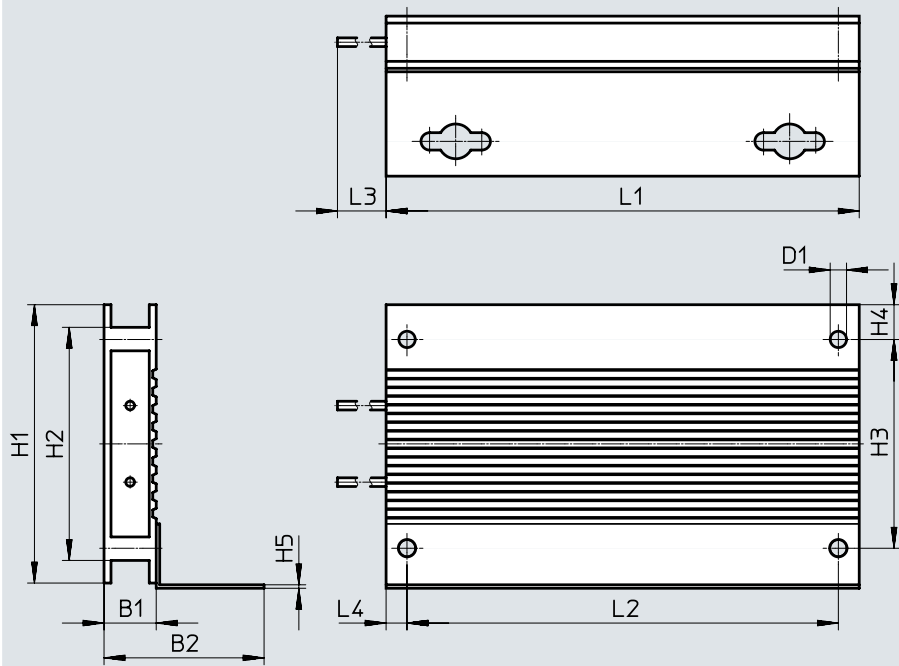
Dimensions Download CAD data → [www.festo.com](http://www.festo.com)

CACR-LE2-...-W60



| Type           | B1 | D1   | H1 | L1  | L2 |
|----------------|----|------|----|-----|----|
|                | ±1 | ±0.1 | ±1 |     | ±3 |
| CACR-LE2-6-W60 | 40 | 4.3  | 21 | 102 | 81 |

CACR-LE2-...-W500



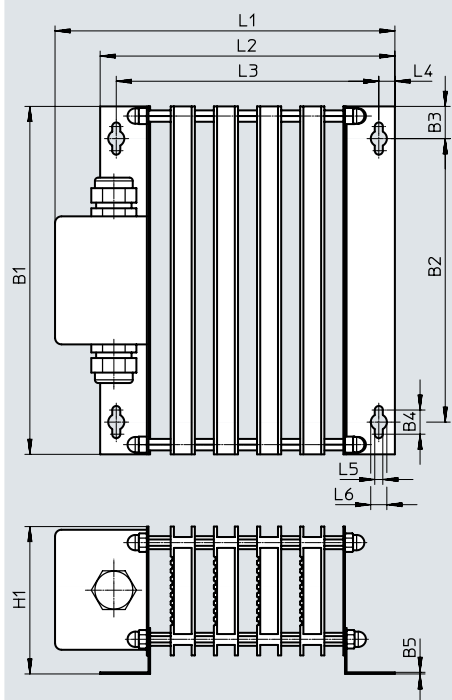
| Type              | B1   | B2 | D1<br>∅ | H1 | H2   | H3   | H4 | H5 | L1  | L2   | L3  | L4 |
|-------------------|------|----|---------|----|------|------|----|----|-----|------|-----|----|
|                   | ±0.5 |    | ±0.1    |    | ±0.3 | ±0.2 |    |    |     | ±0.2 | ±40 |    |
| CACR-LE2-50-W500  | 15   | 46 | 4.7     | 80 | 67   | 60   | 10 | 1  | 216 | 204  | 510 | 6  |
| CACR-LE2-72-W500  |      |    |         |    |      |      |    |    |     |      |     |    |
| CACR-LE2-100-W500 |      |    |         |    |      |      |    |    |     |      |     |    |
| CACR-LE2-240-W500 |      |    |         |    |      |      |    |    |     |      |     |    |

## Data sheet

## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

CACR-KL2-...-W1800, CACR-KL2-40-W2000



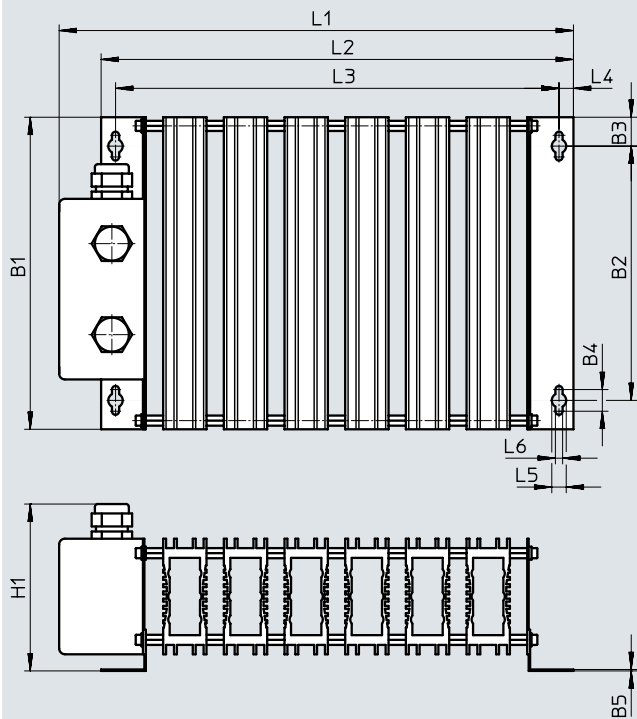
| Type               | B1  | B2  | B3 | B4 | B5 | H1   | L1  | L2  | L3  | L4 | L5 | L6 |
|--------------------|-----|-----|----|----|----|------|-----|-----|-----|----|----|----|
| CACR-KL2-67-W1800  | 216 | 176 | 20 | 15 | 1  | 91.5 | 230 | 201 | 181 | 10 | 10 | 5  |
| CACR-KL2-100-W1800 |     |     |    |    |    |      |     |     |     |    |    |    |
| CACR-KL2-240-W1800 |     |     |    |    |    |      |     |     |     |    |    |    |
| CACR-KL2-40-W2000  | 216 | 176 | 20 | 15 | 1  | 91.5 | 211 | 183 | 163 | 10 | 10 | 5  |

Data sheet

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

CACR-KL2-33-W2400



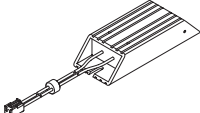
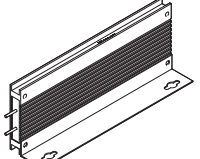
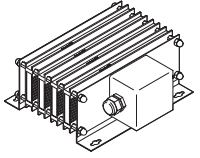
| Type              | B1  | B2  | B3 | B4 | B5 | H1    | L1  | L2  | L3  | L4 | L5 | L6 |
|-------------------|-----|-----|----|----|----|-------|-----|-----|-----|----|----|----|
| CACR-KL2-33-W2400 | 216 | 176 | 20 | 15 | 1  | 115.5 | 356 | 327 | 307 | 10 | 10 | 5  |

## Data sheet

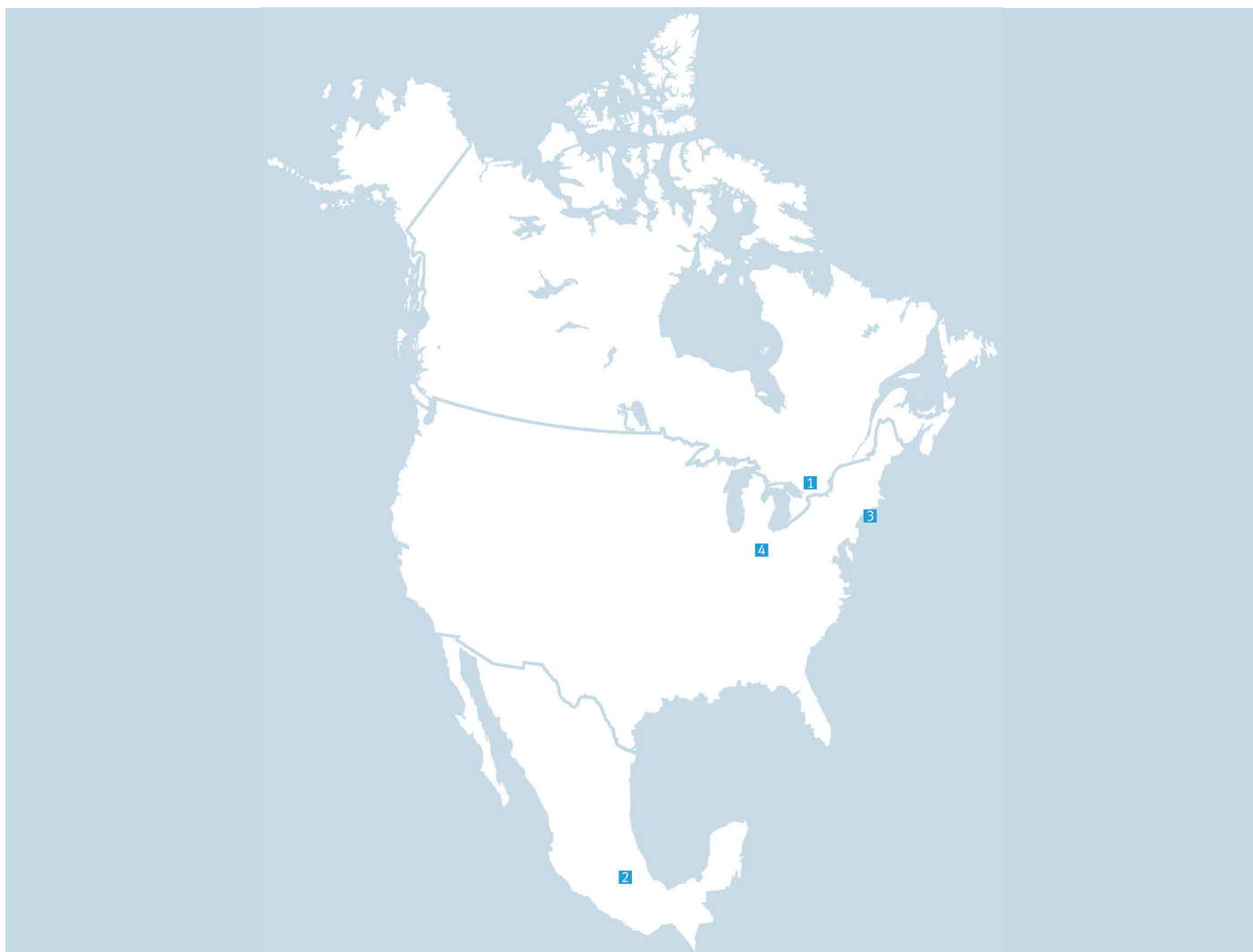
| Matching braking resistor with servo drive |             |             |              |              |              |               |               |              |
|--------------------------------------------|-------------|-------------|--------------|--------------|--------------|---------------|---------------|--------------|
| Braking resistor                           | CACR-       |             |              |              |              |               |               |              |
|                                            | LE2-50-W500 | LE2-72-W500 | LE2-100-W500 | LE2-240-W500 | KL2-67-W1800 | KL2-100-W1800 | KL2-240-W1800 | KL2-40-W2000 |
| Suitable for servo drive                   |             |             |              |              |              |               |               |              |
| CMMT-AS-C2-3A                              | –           | –           | ■            | –            | –            | ■             | –             | –            |
| CMMT-AS-C4-3A                              | –           | ■           | ■            | –            | ■            | ■             | –             | –            |
| CMMT-AS-C2-11A                             | –           | –           | –            | ■            | –            | –             | ■             | –            |
| CMMT-AS-C3-11A                             | –           | –           | –            | ■            | –            | –             | ■             | –            |
| CMMT-AS-C5-11A                             | –           | –           | ■            | –            | –            | ■             | –             | –            |
| CMMT-AS-C7-11A                             | –           | ■           | ■            | –            | ■            | ■             | –             | –            |
| CMMT-AS-C12-11A                            | ■           | –           | –            | –            | –            | –             | –             | ■            |

| Matching braking resistor with motor controller |           |                 |             |              |                 |              |  |
|-------------------------------------------------|-----------|-----------------|-------------|--------------|-----------------|--------------|--|
| Braking resistor                                | CACR-     |                 |             |              |                 |              |  |
|                                                 | LE2-6-W60 | LE2-50-W500     | LE2-72-W500 | KL2-67-W1800 | KL2-40-W2000    | KL2-33-W2400 |  |
| Suitable for motor controller                   |           |                 |             |              |                 |              |  |
| CMMP-AS-C2-3A-M0                                | –         | ■ <sup>1)</sup> | ■           | –            | –               | –            |  |
| CMMP-AS-C5-3A-M0                                | –         | ■ <sup>1)</sup> | ■           | –            | –               | –            |  |
| CMMP-AS-C5-11A-P3-M0                            | –         | –               | –           | ■            | ■ <sup>1)</sup> | –            |  |
| CMMP-AS-C10-11A-P3-M0                           | –         | –               | –           | ■            | ■ <sup>1)</sup> | –            |  |
| CMMP-AS-C2-3A-M3                                | –         | ■ <sup>1)</sup> | ■           | –            | –               | –            |  |
| CMMP-AS-C5-3A-M3                                | –         | ■ <sup>1)</sup> | ■           | –            | –               | –            |  |
| CMMP-AS-C5-11A-P3-M3                            | –         | –               | –           | ■            | ■ <sup>1)</sup> | –            |  |
| CMMP-AS-C10-11A-P3-M3                           | –         | –               | –           | ■            | ■ <sup>1)</sup> | –            |  |
| CMMP-AS-C20-11A-P3                              | –         | –               | –           | –            | –               | ■            |  |
| Suitable for integrated drive                   |           |                 |             |              |                 |              |  |
| EMCA-EC-67-...                                  | ■         | –               | –           | –            | –               | –            |  |

1) Recommended braking resistor

| Ordering data                                                                       |                         |                      |          |                    |
|-------------------------------------------------------------------------------------|-------------------------|----------------------|----------|--------------------|
| Type                                                                                | Resistance value<br>[Ω] | Nominal power<br>[W] | Part no. | Type               |
| CACR-LE2-...                                                                        |                         |                      |          |                    |
|  | 6                       | 60                   | 8047913  | CACR-LE2-6-W60     |
|                                                                                     |                         |                      |          |                    |
|  | 50                      | 200                  | 2882342  | CACR-LE2-50-W500   |
|                                                                                     | 72                      | 200                  | 1336611  | CACR-LE2-72-W500   |
|                                                                                     | 100                     | 200                  | 1336615  | CACR-LE2-100-W500  |
|                                                                                     | 240                     | 200                  | 8091543  | CACR-LE2-240-W500  |
| CACR-KL2-...                                                                        |                         |                      |          |                    |
|  | 67                      | 720                  | 1336617  | CACR-KL2-67-W1800  |
|                                                                                     | 100                     | 720                  | 8091545  | CACR-KL2-100-W1800 |
|                                                                                     | 240                     | 720                  | 8091544  | CACR-KL2-240-W1800 |
|                                                                                     | 40                      | 800                  | 2882343  | CACR-KL2-40-W2000  |
|                                                                                     | 33                      | 1440                 | 1336619  | CACR-KL2-33-W2400  |

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