

## Technical data sheet · Load monitoring

LOCC-Box



|                              |                                                                                                                                                              |                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Identification               | Type                                                                                                                                                         | LOCC-Box-FB2A 7-6409 |
|                              | Part-No.                                                                                                                                                     | 716409               |
|                              |                                                                                                                                                              |                      |
| Description                  | Electronic load monitoring up to DC 2 A<br>Single-channel design, Adjustable current range: DC 0.2 A – 2 A<br>Adjustable characteristics, fast, medium, slow |                      |
|                              |                                                                                                                                                              |                      |
| Input                        |                                                                                                                                                              |                      |
| Type of function             | 1-channel 1 pin switching                                                                                                                                    |                      |
| Rated voltage U <sub>N</sub> | DC 12/24 V                                                                                                                                                   |                      |
| Operation voltage range      | DC 10–32 V                                                                                                                                                   |                      |
| Input voltage range          | DC 10 V – 30 V                                                                                                                                               |                      |
| Rated current I <sub>N</sub> | DC 2 A                                                                                                                                                       |                      |
| Supply current               | DC 40 A over Cu-rails 10 × 3 mm                                                                                                                              |                      |
| Reverse voltage protection   | internal electronics                                                                                                                                         |                      |
| Connection type input        | screwless contact slide                                                                                                                                      |                      |
|                              |                                                                                                                                                              |                      |
| Control input (Set / Reset)  |                                                                                                                                                              |                      |
| Signal level                 | DC 12/24 V acc. to EN 61131                                                                                                                                  |                      |
| OFF                          | Pulse with falling edge >100 ms, <800 ms                                                                                                                     |                      |
| ON                           | Pulse with falling edge > 1 s                                                                                                                                |                      |

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Part-No. 716409

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### Output

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|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| Switching element     | MOSFET                                                                           |
| Output current        | max. DC 2 A                                                                      |
| Voltage drop          | <140 mV (2 A)                                                                    |
| Status display output | LED green: operating voltage present, no error<br>LED red: error in load circuit |
| Switch-on capacity    | 10000 µF                                                                         |
| Current range         | 0.2 A – 2 A (adjustable via switch in 0.2 A steps)                               |
| Characteristic        | fast (1), medium (2), slow 1 (3) see 'Characteristic curves'                     |
| Current limitation    | 13.75 A                                                                          |

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### Signal output

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|                   |                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------|
| Signal level      | DC 12/24 V: operating voltage on standby, no error,<br>DC 0 V: error, output switched off <b>and manual "OFF"</b> |
| Switching element | Transistor, collector with pull-up resistance                                                                     |

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### General

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|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| Operation temperature range | -25 °C ... +50 °C                                                   |
| Storage temperature range   | -40 °C ... +75 °C                                                   |
| Dimensions (w × h × d)      | 8.1 × 114.5 × 116.0 mm                                              |
| Housing material            | PA 6.6 (UL 94 V-0, NFF I2, F2)                                      |
| Color of the housing        | basalt grey                                                         |
| Mounting                    | DIN rail mountable TS35<br>(EN 60715)                               |
| MTBF                        | 690000 h                                                            |
| Protection class            | IP20                                                                |
| Installation position       | any                                                                 |
| Connection type             | Spring terminal<br>0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup>       |
| Weight                      | 0.105 kg/piece                                                      |
| Certifications              | cULus (E135145)<br>GL in preparation                                |
| Standards                   | EN 60950-1<br>EN 61131-1, 2<br>EN 61000<br>EN 60947-4-1<br>EN 55022 |
| PU                          | 1 piece                                                             |

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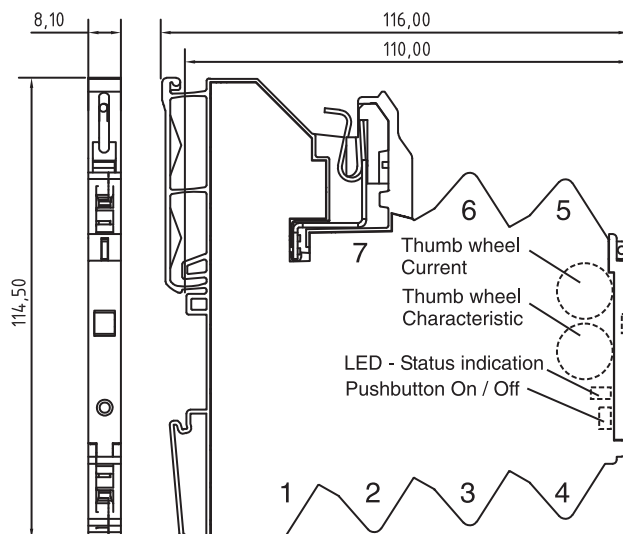
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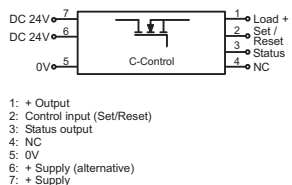
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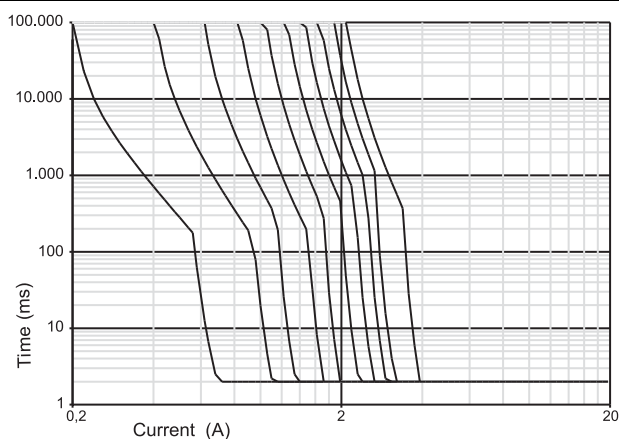
## Dimensions



## PIN assignment



## 1: Characteristic fast



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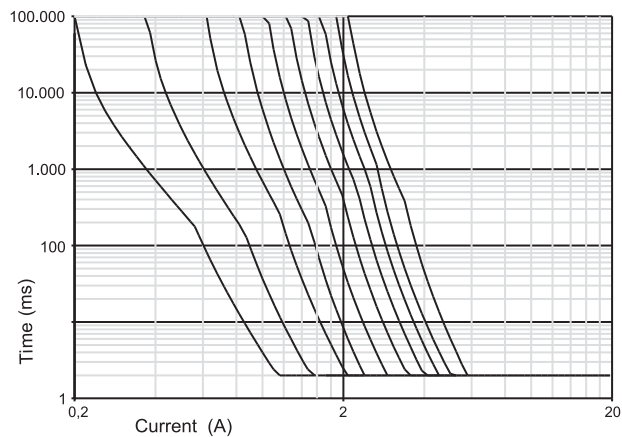
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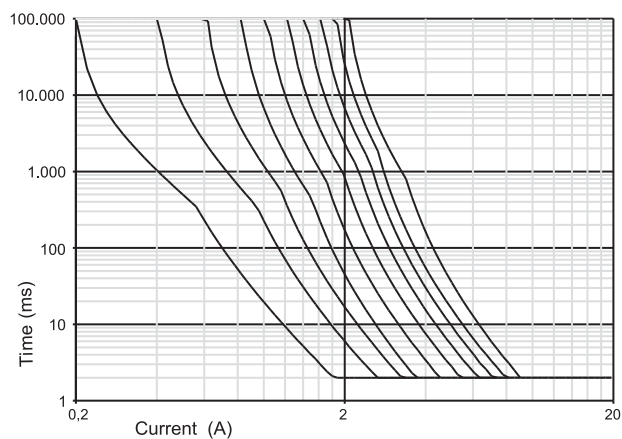
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### 2: Characteristic medium



### 3: Characteristic slow-1



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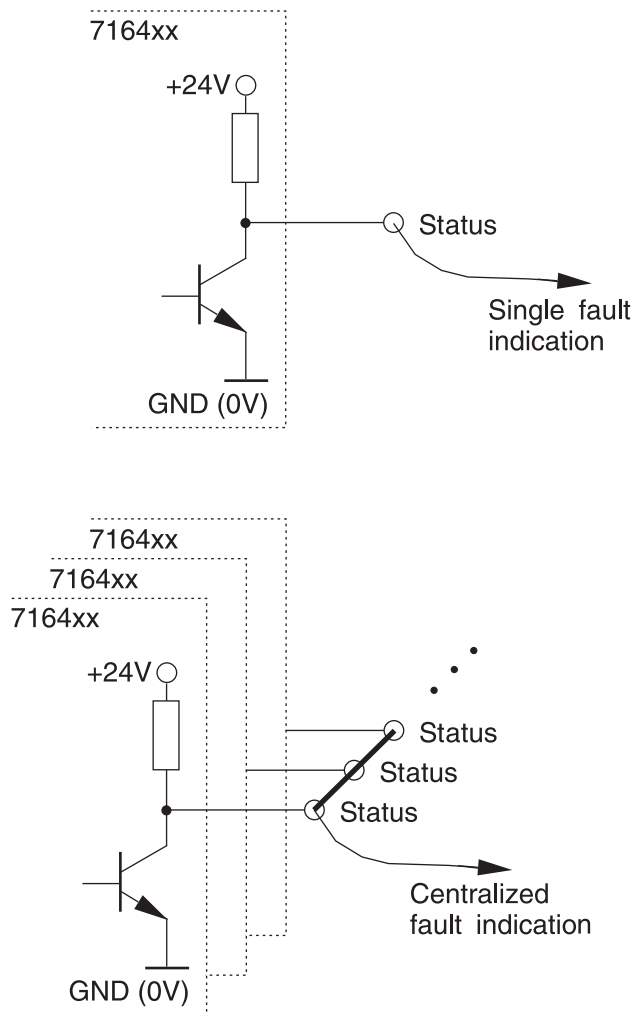
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### Signal output



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