

# Technical data sheet - Load monitoring

LOCC-Box-EC



<b>Identification</b>	Type	LOCC-Box-EC-I-C
	Part-No.	716407.xxxx
	See order code!	

<b>Description</b>	Electronic load monitoring up to DC 10 A Single channel version, fixed current range: DC 1 A - 10 A (see order code) Fixed characteristic: fast, medium, slow 1, -2, -3 (see order code)
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<b>Input</b>	
Rated voltage $U_N$	DC 12/24 V
Operation voltage range	DC 10–30 V
Input voltage range	DC 0 V – 30 V
Rated current $I_N$	DC 10 A
Supply current	DC 40 A over Cu-rails 10 x 3 mm
Reverse voltage protection	internal electronics
Connection type input	screwless contact slide

<b>Output</b>	
Switching element	MOSFET
Output current	max. DC 10 A
Voltage drop	<170 mV (10 A)
Status display output	LED green: operating voltage present, no error LED red: error in load circuit

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Switch-on capacity	10000 µF
Current range	1 A – 10 A (see order code)
Characteristic	fast (1), medium (2), slow 1 (3), slow 2 (4), slow 3 (5) (see order code), see 'Characteristic curves'

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### Signal output

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Signal level	DC 12/24 V: operating voltage on standby, no error, 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 ... +85 °C
Dimensions (w x h x d)	8.1 x 114.5 x 116.0 mm
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Mounting	DIN rail mountable TS35 (EN 60715)
Protection class	IP20
Installation position	any
Connection type	Spring terminal 0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup>
Weight	0.105 kg/piece
Certifications	cULus (E135145)
Standards	EN 60950-1 EN 61131-1, 2 EN 61000 EN 60947-4-1 EN 55022
PU	1 piece

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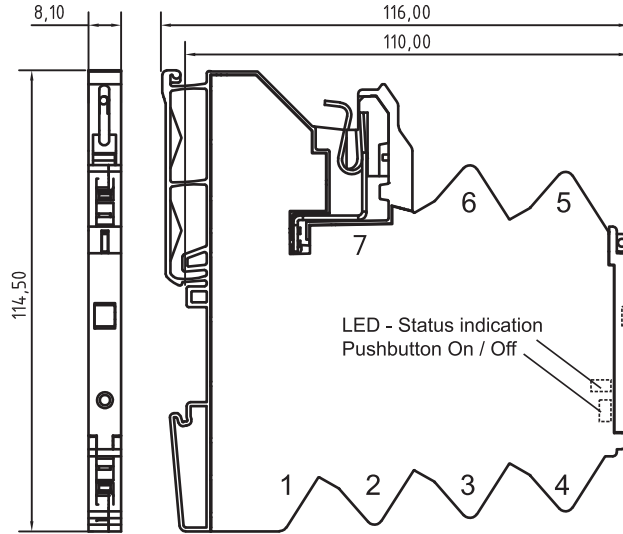
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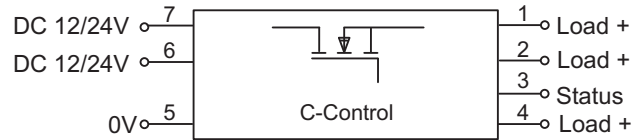
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## Dimensions

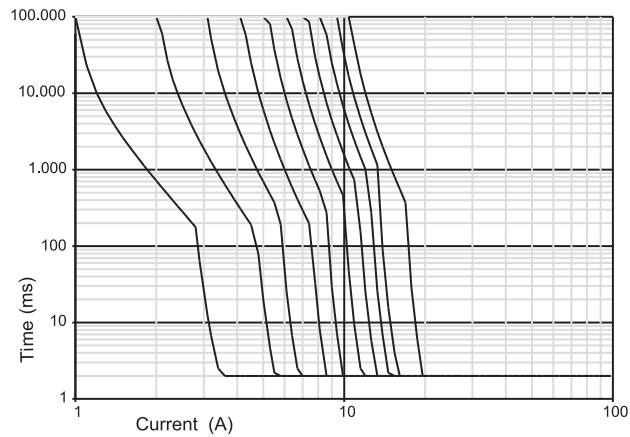


## PIN assignment



- 1: + Output
- 2: + Output
- 3: Status output
- 4: + Output
- 5: 0V
- 6: + Supply (alternative)
- 7: + Supply

## 1: Characteristic fast



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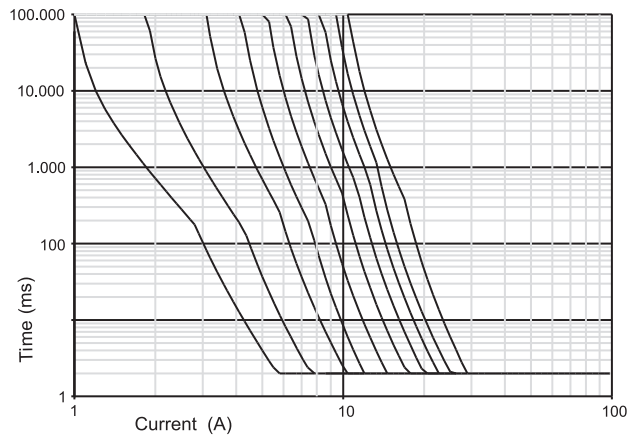
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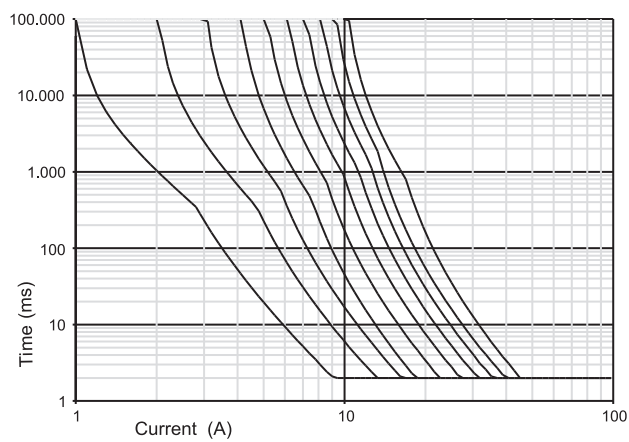
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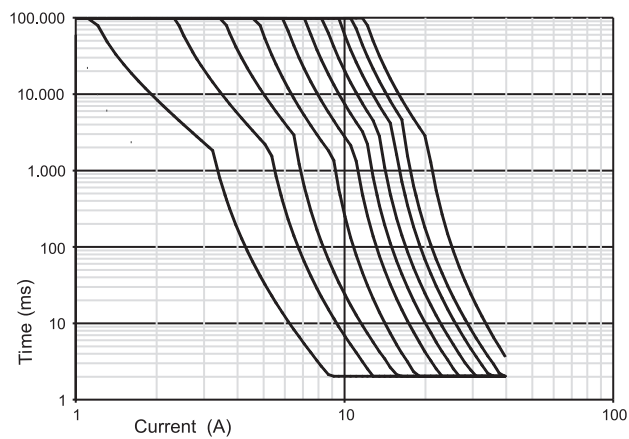
## 2: Characteristic medium



## 3: Characteristic slow-1



## 4: Characteristic slow-2



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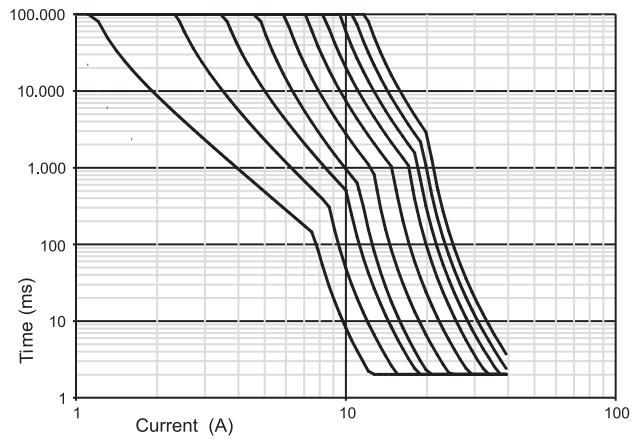
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## 5: Characteristic slow-3



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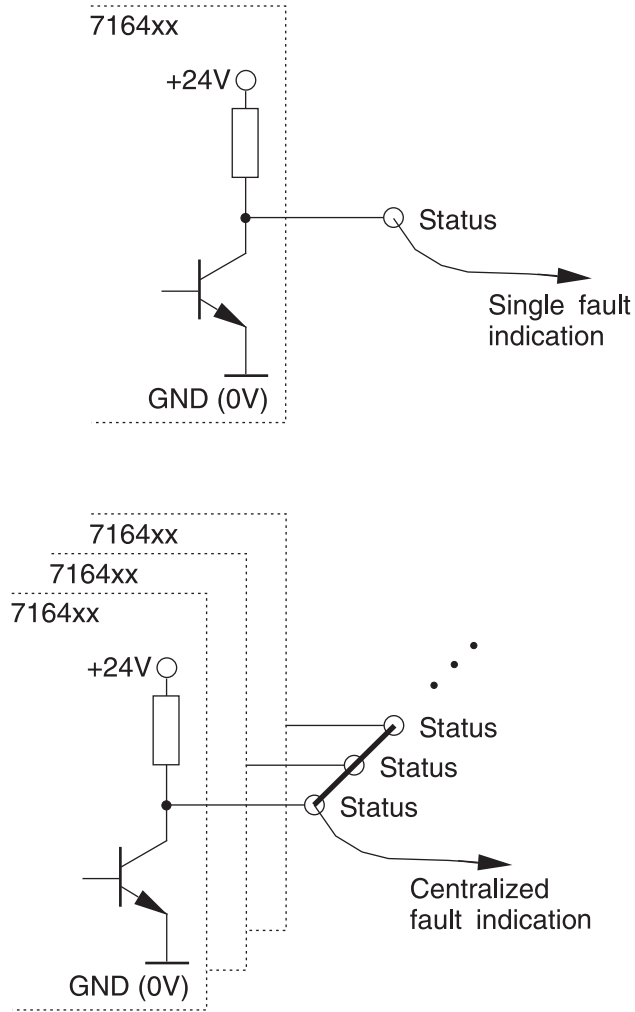
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## Signal output



## Order code

716407. 2 3 50	
Type	PU
	00 1 pc.
	50 50 pcs.
Current range	Characteristic
1 1A	1 fast
2 2A	2 medium
3 3A	3 slow-1
⋮	4 slow-2
0 10A	5 slow-3

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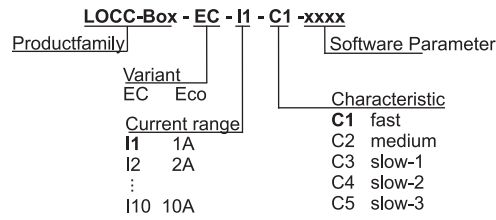
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