

Technical data sheet · Load monitoring

LOCC-Box-Net



Identification	Type	LOCC Box Net 7-6410
	Part-No.	716410
Description		
	Electronic load monitoring up to DC 10 A, with communication Single-channel design, programmable, Adjustable current range: DC 1 A – 10 A Adjustable characteristics, fast, medium, slow 1, -2, -3	
Input		
Type of function	1-channel 1 pin switching	
Rated voltage U_N	DC 12/24 V	
Operation voltage range	DC 10–30 V	
Input voltage range	DC 10 V – 30 V	
Rated current I_N	DC 10 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 IEC 61131-2	
OFF	Pulse with falling edge >100 ms, <800 ms	
ON	Pulse with falling edge > 1 s	

11.03.2020 – Subject to technical modification

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Output

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
Switch-on capacity	10000 µF
Current range	1 A – 10 A (adjustable via switch in 1 A steps)
Characteristic	fast (1), medium (2), slow 1 (3), slow 2 (4), slow 3 (5), can be configured (10) see 'Characteristic curves'

Signal output

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

General

Operation temperature range	-25 °C ... +50 °C
Storage temperature range	-40 °C ... +85 °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 (EN 60715)
MTBF	690000 h
Protection class	IP20
Installation position	any
Connection type	Spring terminal 0.25 mm ² – 2.5 mm ²
Weight	0.105 kg/piece
Certifications	cULus (E135145) GL
Standards	EN 60950-1 EN 61131-1, 2 EN 61000 EN 60947-4-1 EN 55022
PU	1 piece

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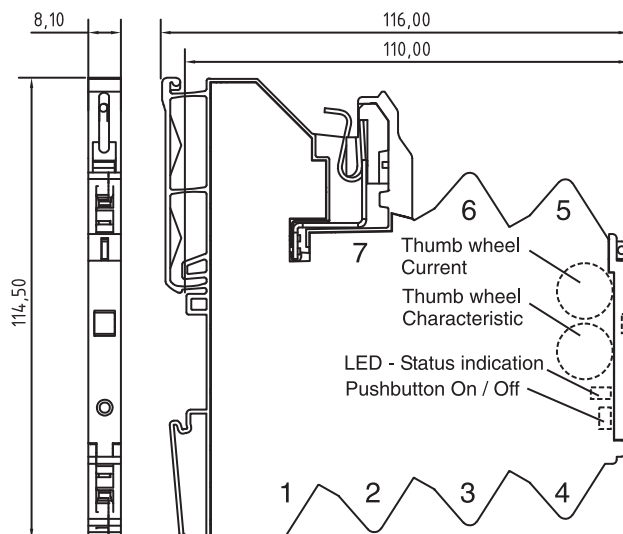
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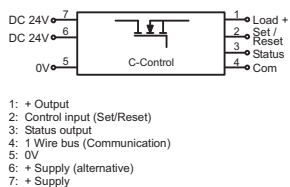
SYSTEMATIC TECHNOLOGY

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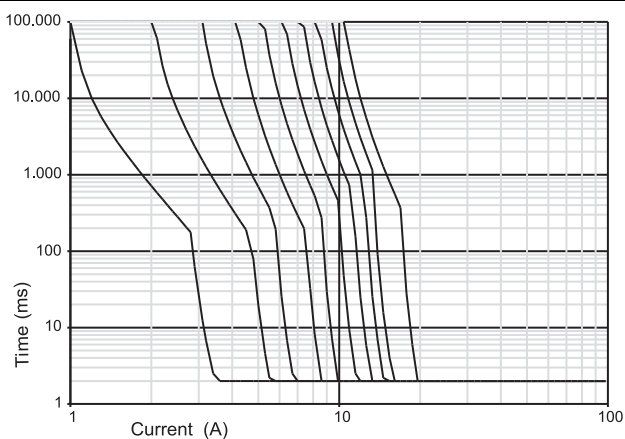
Dimensions



PIN assignment



1: Characteristic fast



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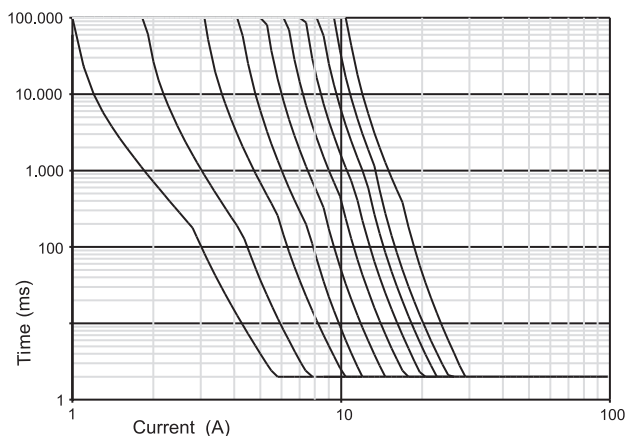
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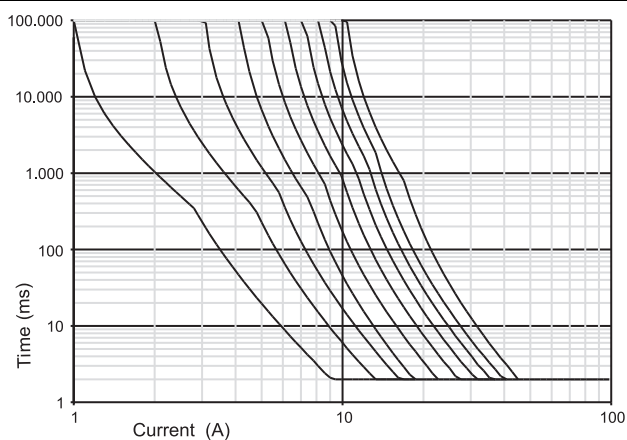
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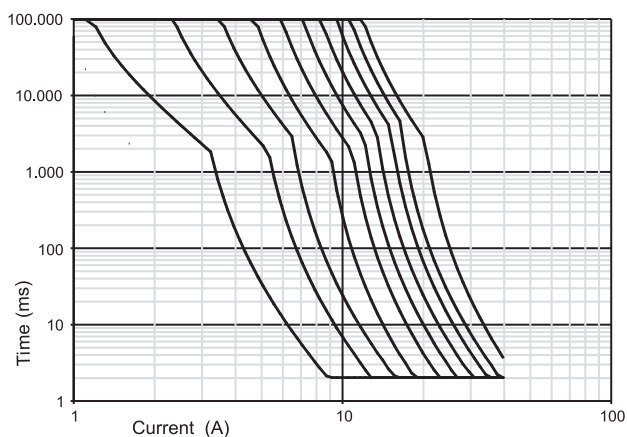
2: Characteristic medium



3: Characteristic slow-1



4: Characteristic slow-2



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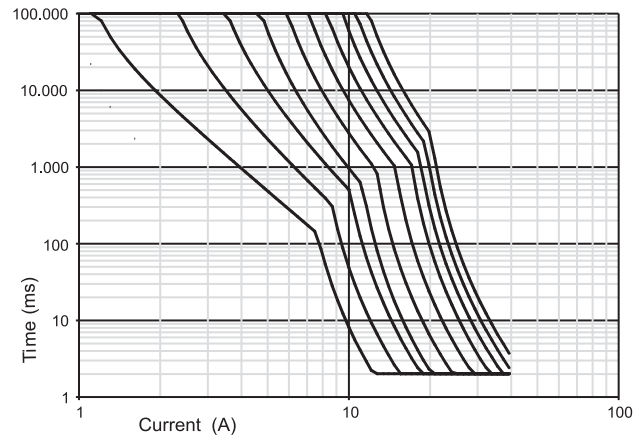
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5: Characteristic slow-3



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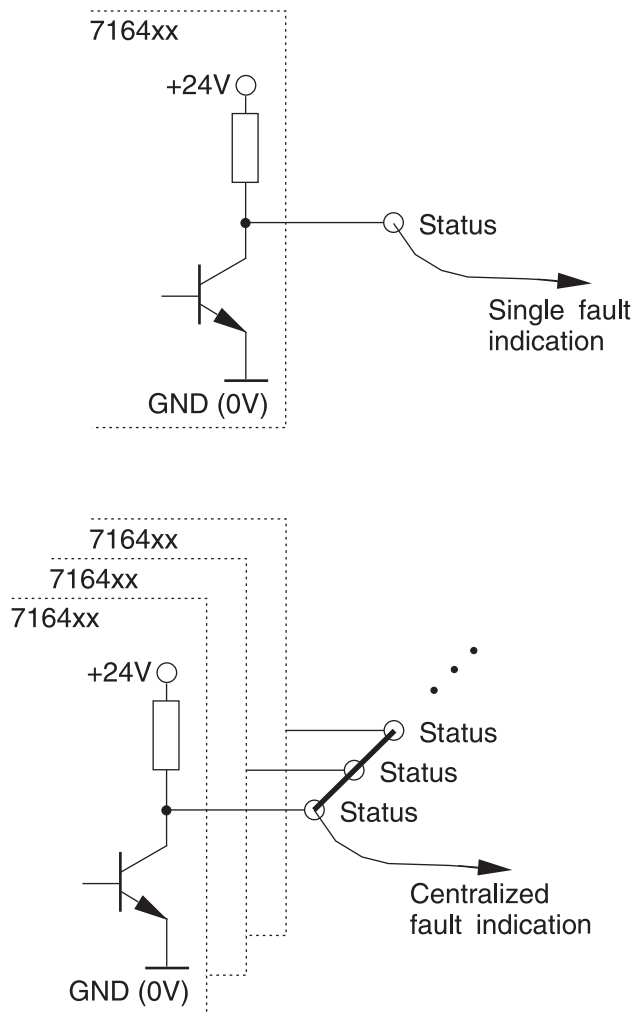
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Signal output



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