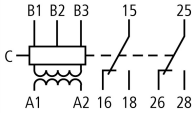




**Overcurrent monitor, Current measuring range: 0.3 - 1.5 A, 1 - 5 A, 3 - 15 A,
Supply voltage: 220 - 240 V AC, 50/60 Hz**

Part no. EMR6-I15-B-1
Catalog No. 184755
Alternate Catalog No. EMR6-I15-B-1
EL-Nummer 4101951
(Norway)

Delivery program

Product range			EMR Measuring and monitoring relays
Basic function			Current monitoring relays
			Monitoring of single-phase DC and AC networks On delay: None = 0 or adjustable from 0.1 to 30 s Extension of the measurement range possible with current transformers
Monitoring of			Overcurrent Undercurrent
Current measuring range	I~/I=	A	0.3 - 1.5 A 1 - 5 A 3 - 15 A
Contact sequence			
Supply voltage			220 - 240 V AC, 50/60 Hz
Width		mm	22.5

Technical data

General

Standards			UL 508, CAN/CSA C22.2 No.14, GL, EAC, CCC, RMRS
Lifespan, mechanical	Operations	x 10 ⁶	30
Climatic proofing			Damp heat, cyclical to IEC 60068-2-30: 24 h cycle, 55° C, 93% relative humidity, 96 h
Ambient temperature			
Operation		°C	
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	+ 60
Storage		°C	- 40 - 85
Mounting position			As required
Shock resistance			Class 2
Degree of protection			
Terminals			IP20
Enclosures			IP50
Terminal capacities		mm ²	
Solid		mm ²	1 x 0.5-2.5 (1 x 18-14 AWG)
Flexible with ferrule		mm ²	2 x 0.5-1.5 (2 x 18-16 AWG)
Standard screwdriver		mm	4 x 0.8
Tightening torque		Nm	0.6 - 0.8
Fixing			Snap fixing, top-hat rail IEC/EN 60715
MTBF (mean time between failures)			382467 h

Contacts

Rated impulse withstand voltage	U _{imp}	V AC	4000
Overvoltage category/pollution degree			III/3

Power supply

Supply voltage			220 - 240 V AC, 50/60 Hz
Voltage tolerance		x U _c	0.85 - 1.1
Power consumption		VA	2.6

Rated frequency	f	Hz	50 - 60
Duty factor		% DF	100

Timing cycle

Reset delay/Off-delay time		s	Adjustable from 0.1 – 30
Time error within supply voltage		%	0.5
Time error within temperature range		%/°C	0.06

Measuring circuits

Inputs		Number	
B1-C		A	0.3 - 1.5
B2-C		A	1 - 5
B3-C		A	3 - 15
Hysteresis		%	3 ... 30
Measuring cycle		ms	80
Temperature error		%/°C	0.06
Error within supply voltage		%	0.5

Status indication

Supply voltage			LED, green
Output relay energized			LED, yellow
Measured value			LED, red
Status indicator (LED)			Green, solid: Supply voltage Green, flashing: Release delay active Yellow, solid: Output relay excited Red, flashing: Undercurrent

Relay output contacts

Rated operational voltage	U _e	V AC	250
Rated operational current	I _e	A	
AC-12 at 230 V	I _e	A	4
AC-15 with 230 V	I _e	A	3
DC-12 at 24 V	I _e	A	4
DC-13 at 24 V	I _e	A	2
Minimum Switching capacity			10 mA / 24 V
Lifespan, electrical (AC-12/230 V/4 A)	Operations	x 10 ⁶	
Lifespan, electrical	Operations	x 10 ⁶	0.1
Short-circuit rating			
max. fuse	Fast/gL	A	10

Electromagnetic compatibility (EMC)

Electromagnetic compatibility			IEC/EN 60947-6-2
ESD	Air/contact discharge	kV	IEC/EN 61000-4-2 level 3
HF-immunity to radiation			IEC/EN 61000-4-3 level 3
Burst			IEC/EN 61000-4-4 level 3
Surge			IEC/EN 61000-4-5 Level 4
HF-immunity to line-conducted interference			IEC/EN 61000-4-6 level 3

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.9 Insulation properties			
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.

Technical data ETIM 7.0

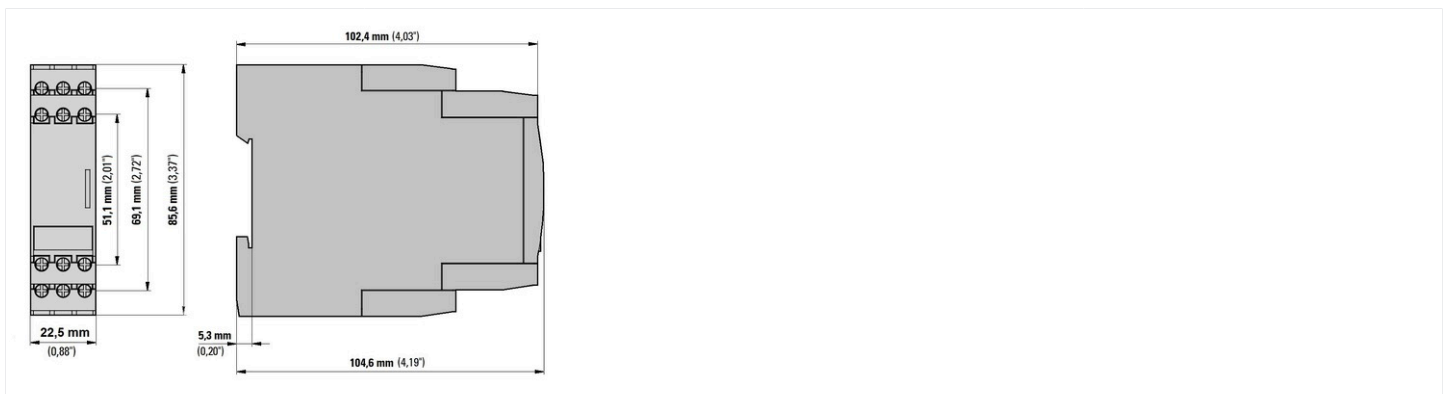
Relays (EG000019) / Current monitoring relay (EC001440)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Current monitoring equipment (ec1@ss10.0.1-27-37-18-02 [AKF096014])			
Type of electric connection			Screw connection
With detachable clamps			No

Single-phase under current possible		Yes
Three-phase under current possible		No
Single-phase over current possible		Yes
Three-phase over current possible		No
Single-phase hysteresis possible		No
Three-phase hysteresis possible		No
Contains function DC-voltage under current		Yes
Contains function DC-voltage over current		Yes
Function DC-current hysteresis		No
Rated control supply voltage Us at AC 50HZ	V	220 - 240
Rated control supply voltage Us at AC 60HZ	V	220 - 240
Rated control supply voltage Us at DC	V	220 - 240
Voltage type for actuating		AC/DC
Current measurement range	A	0.3 - 15
Min. adjustable delay-on energization time	s	0.1
Max. permitted delay-on energization time	s	30
Min. adjustable off-delay time	s	0
Max. permitted off-delay time	s	0
Number of contacts as normally closed contact		0
Number of contacts as normally open contact		0
Number of contacts as change-over contact		2
External current transformer		
Width	mm	22.5
Height	mm	85.6
Depth	mm	104.6

Approvals

Product Standards		IEC 255-6; UL 508; CSA-22.2 No. 14-05; CE marking
UL File No.		E29184
UL Category Control No.		NKCR, NKCR7
CSA File No.		UL report valid
CSA Class No.		3211-03
North America Certification		UL listed, certified by UL for use in Canada

Dimensions



Additional product information (links)

IL121004ZU Single-phase current monitoring relays	
IL121004ZU Single-phase current monitoring relays	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL121004ZU.pdf
IL121004ZU Single-phase current monitoring relays	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL121004ZU2018_07.pdf
Current monitoring relays	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=11.22