Overload relay, ZB12, Ir= 0.16 - 0.24 A, 1 N/O, 1 N/C, Direct mounting, IP20 $\,$



Powering Business Worldwide

Part no. ZB12-0,24

278432

EL Number 4131827

(Norway)

General specifications	
Product name	Eaton Moeller® series ZB Thermal overload relay
Part no.	ZB12-0,24
EAN	4015082784324
Product Length/Depth	88 millimetre
Product height	67 millimetre
Product width	45 millimetre
Product weight	0.141 kilogram
Certifications	CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 UL VDE 0660 CSA IEC/EN 60947-4-1 IEC/EN 60947 CSA File No.: 012528 CE UL Category Control No.: NKCR UL File No.: E29184 CSA Class No.: 3211-03
Product Tradename	ZB
Product Type	Thermal overload relay
Product Sub Type	None
Catalog Notes	Ambient air temperature: Operating range to IEC/EN 60947, PTB: -5°C to +55°C Ambient operating temperature (according to IEC/EN 60947) PTB: -5°C - +55°C Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified.
Features & Functions	
Features	Test/off button Trip-free release Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Reset pushbutton manual/auto
General information	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °C
Ambient operating temperature (enclosed) - min	25 °C
Ambient operating temperature (enclosed) - max	40 °C
Class	CLASS 10 A
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Degree of protection	IP20
Frame size Mounting method	ZB12 Direct attachment Direct mounting
Overload release current setting - min	0.16 A
Overload release current setting - max	0.24 A
Overvoltage category	III
Pollution degree	3
Product category	Accessories Overload relay ZB up to 150 A
Protection	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	6000 V AC 4000 V (auxiliary and control circuits)
Shock resistance	10 g, Mechanical, Sinusoidal, Shock duration 10 ms
Suitable for	Branch circuits, (UL/CSA)

(a (0.75 - 2.5) mm², Control circuit cables (a (1 - 4) mm², Main cables (a (1 - 4) mm², Control circuit cables (a (0.75 - 4) mm², Control circuit cables (a (1 - 6) mm², Main cables (a (1 - 14), Control circuit cables (a (1
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B Nm, Screw terminals, Main cables
A
A
5 A
5 A
9 A
ł A
2 A
9 A
75 A
0 V
O V AC, Between auxiliary contacts, According to EN 61140 O V AC, Between main circuits, According to EN 61140 O V AC, Between auxiliary contacts and main contacts, According to EN 61140
ioO at opposite polarity, AC operated (UL/CSA) ioO, DC operated (UL/CSA) ioO at opposite polarity, AC operated (UL/CSA)
0 V AC
A, Class J/CC, max. Fuse, SCCR (UL/CSA) 0 kA, Fuse, SCCR (UL/CSA)
ax. 6 A gG/gL, fuse, Without welding, Auxiliary and control circuits A gG/gL, Fuse, Type "2" coordination A gG/gL, Fuse, Type "1" coordination
₩ W
N
3 W
24 A
N
eets the product standard's requirements.
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eets the product standard's requirements.

10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Thermal overload relay (EC000106)		
Electric engineering, automation, process control engineering / Low-voltage switch to	echnology / Overloa	nd protection device / Thermal overload relay (ecl@ss10.0.1-27-37-15-01 [AKF075014])
Adjustable current range	Α	0.16 - 0.24
Max. rated operation voltage Ue	V	690
Mounting method		Direct attachment
Type of electrical connection of main circuit		Screw connection
Number of auxiliary contacts as normally closed contact		1
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as change-over contact		0
Release class		CLASS 10 A
Reset function input		No
Reset function automatic		Yes
Reset function push-button		Yes