

## Overload relay, ZB32, Ir= 10 - 16 A, 1 N/0, 1 N/C, Direct mounting, IP20



Part no. ZB32-16 278452

**EL Number** 4131847

(Norway)

General specifications	
Product name	Eaton Moeller® series ZB Thermal overload relay
Part no.	ZB32-16
EAN	4015082784522
Product Length/Depth	96 millimetre
Product height	67 millimetre
Product width	45 millimetre
Product weight	0.146 kilogram
Certifications	VDE 0660 IEC/EN 60947 CSA Class No.: 3211-03 UL File No.: E29184 CSA CE CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 UL Category Control No.: NKCR UL IEC/EN 60947-4-1
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.
eatures & Functions	
Features	Reset pushbutton manual/auto Test/off button Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Trip-free release
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  Degree of protection	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 IP20
Frame size	ZB32
Mounting method	Direct mounting Direct attachment
Overload release current setting - min	10 A
Overload release current setting - max	16 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)	4000 V (auxiliary and control circuits) 6000 V AC
Shock resistance	10 g, Mechanical, Sinusoidal, Shock duration 10 ms
Suitable for	Branch circuits, (UL/CSA)

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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 9.0**

Low-voltage industrial components (EG000017) / Thermal overload relay (EC000106)				
Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Thermal overload relay (ecl@ss13-27-37-15-01 [AKF075019])				
Adjustable current range	А	A 10 - 16		
Max. rated operation voltage Ue	V	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		