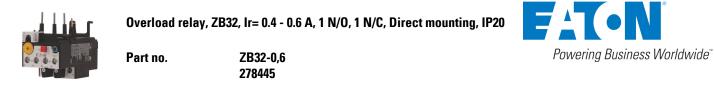
DATASHEET - ZB32-0,6



Product name	Eaton Moeller® series ZB Thermal overload relay
Part no.	ZB32-0,6
EAN	4015082784454
Product Length/Depth	96 millimetre
Product height	67 millimetre
Product width	45 millimetre
Product weight	0.142 kilogram
Certifications	IEC/EN 60947-4-1 CSA-C22.2 No. 60947-4-1-14 CSA Class No.: 3211-03 UL 60947-4-1 CE CSA VDE 0660 CSA File No.: 012528 UL UL Category Control No.: NKCR UL File No.: E29184 IEC/EN 60947
Product Tradename	ZB
Product Type	Thermal overload relay
Product Sub Type	None
Catalog Notes eatures & Functions	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- time constant as specified.
Features	Reset pushbutton manual/auto Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Trip-free release Test/off button
eneral 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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Degree of protection	IP20
Frame size	ZB32
Mounting method	Direct attachment Direct mounting
Overload release current setting - min	0.4 A
Overload release current setting - max	0.6 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 actual 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)

	\leq 0.25 %/K, residual error for T > 40°
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (1 - 4) mm ² , Main cables 2 x (1 - 4) mm ² , Main cables 1 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 2.5) mm ² , Control circuit cables
Terminal capacity (solid)	1 x (0.75 - 4) mm ² , Control circuit cables 2 x (0.75 - 4) mm ² , Control circuit cables 2 x (1 - 6) mm ² , Main cables 1 x (1 - 6) mm ² , Main cables
Terminal capacity (solid/stranded AWG)	18 - 8, Main cables 2 x (18 - 14), Control circuit cables
Stripping length (main cable)	10 mm
Stripping length (control circuit cable)	8 mm
Screw size	M3.5, Terminal screw, Control circuit cables M4, Terminal screw
Screwdriver size	1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
Electrical rating	
Conventional thermal current ith of auxiliary contacts (1-pole, open)	6 A
Rated operational current (le) at AC-15, 120 V	1.5 A
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	1.5 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V	0.9 A
Rated operational current (le) at DC-13, 110 V	0.4 A
Rated operational current (Ie) at DC-13, 220 V, 230 V	0.2 A
Rated operational current (le) at DC-13, 24 V	0.9 A
Rated operational current (Ie) at DC-13, 60 V	0.75 A
Rated operational voltage (Ue) - max	690 V
Safe isolation	440 V, Between auxiliary contacts and main contacts, According to EN 61140 440 V AC, Between main circuits, According to EN 61140 240 V AC, Between auxiliary contacts, According to EN 61140
Switching capacity (auxiliary contacts, pilot duty)	R300, DC operated (UL/CSA) B300 at opposite polarity, AC operated (UL/CSA) B600 at opposite polarity, AC operated (UL/CSA)
Short-circuit rating	
Short-circuit current rating (high fault at 600 V)	1 A, Class J/CC, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	100 kA, Fuse, SCCR (UL/CSA) 25 A gG/gL, Fuse, Type "1" coordination Max. 6 A gG/gL, fuse, Without welding, Auxiliary and control circuits 4 A gG/gL, Fuse, Type "2" coordination
Contacts	
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	1
Number of auxiliary contacts (normally open contacts)	1
Number of contacts (normally closed contacts)	1
Number of contacts (normally open contacts)	1
Design verification	
Equipment heat dissipation, current-dependent Pvid	4.8 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	1.6 W
Rated operational current for specified heat dissipation (In)	0.6 A
Static heat dissipation, non-current-dependent Pvs	0 W
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
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.
10.10 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) / Relé de sobrecarga térmica (EC000106)

Tecnología electrónica, de automatización y de mando de procesos / Tecnología de conmutación de baja tensión / Unidad de protección contra sobrecargas / Relé de sobrecarga térmico (ecl@ss13-27-37-15-01 [AKF075019])

Max. rated operation voltage Ue V 60 Mounting method Direct attachment Type of electrical connection of main circuit Screw connection Number of auxiliary contacts as normally closed contact I Number of auxiliary contacts as normally open contact I Number of auxiliary contacts as normally open contact I Release class CLASS 10 A Reset function input I			
Mounting methodDirect attachmentType of electrical connection of main circuitScrew connectionNumber of auxiliary contacts as normally closed contact1Number of auxiliary contacts as normally open contact1Number of auxiliary contacts as normally open contact1Release class0Release three to inputCLASS 10 A	Adjustable current range	А	A 0.4 - 0.6
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 normally open contact 0 Release class CLASS 10 A Reset function input No	Max. rated operation voltage Ue	V	V 690
Number of auxiliary contacts as normally closed contact 1 Number of auxiliary contacts as normally open contact 1 Number of auxiliary contacts as normally open contact 0 Release class CLASS 10 A Reset function input No	Mounting method		Direct attachment
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	Type of electrical connection of main circuit		Screw connection
Number of auxiliary contacts as change-over contact 0 Release class CLASS 10 A Reset function input No	Number of auxiliary contacts as normally closed contact		1
Release class CLASS 10 A Reset function input No	Number of auxiliary contacts as normally open contact		1
Reset function input No	Number of auxiliary contacts as change-over contact		0
	Release class		CLASS 10 A
Reset function automatic Yes	Reset function input		No
	Reset function automatic		Yes
Reset function push-button Yes	Reset function push-button		Yes