Overload relay, Ir= 0.6 - 1 A, 1 N/O, 1 N/C, Direct mounting



Part no. ZE-1,0 014376 EL Number 4130478

(Norway)

(Norway) General specifications	
Product name	Eaton Moeller® series ZE Thermal overload relay
Part no.	ZE-1,0
EAN	4015080143765
Product Length/Depth	52 millimetre
Product height	65 millimetre
Product width	45 millimetre
Product weight	0.075 kilogram
Certifications	CSA-C22.2 No. 14 CSA IEC/EN 60947-5-1 IEC/EN 60947-4-1 CSA Class No.: 3211-03 CE UL File No.: E29184 UL Category Control No.: NKCR CSA File No.: 012528 UL 508 UL VDE 0660 IEC/EN 60947
Product Tradename	ZE
Product Type	Thermal overload relay
Product Sub Type	None
Catalog Notes	Ambient air temperature: Operating range to IEC/EN 60947, PTB: -5°C to +50°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	Reset pushbutton manual/auto Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Test/off button Trip-free release
General information	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °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
Mounting method	Direct attachment Direct mounting
Overload release current setting - min	0.6 A
Overload release current setting - max	1 A
Overvoltage category	III
Pollution degree	3
Product category	ZE overload relays for mini contactor relays
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)
Temperature compensation	Continuous

	≤ 0.25 %/K, residual error for T > 40°
Terminal capacities	2 0.23 79/K, restaudi errur 101 1 2 40
Terminal capacity (flexible with ferrule)	2 x (0.5 - 1.5) mm², Main cables
on market support, (no market support	1 x (0.5 - 1.5) mm², Control circuit cables 1 x (0.5 - 1.5) mm², Main cables
Terminal capacity (solid)	$1 \times (0.75 - 2.5) \text{ mm}^2$, Main cables $1 \times (0.75 - 2.5) \text{ mm}^2$, Control circuit cables $2 \times (0.75 - 2.5) \text{ mm}^2$, Control circuit cables
Terminal capacity (solid/stranded AWG)	18 - 14, Main cables 2 x (18 - 12), Control circuit cables
Stripping length (main cable)	8 mm
Stripping length (control circuit cable)	8 mm
Screw size	M3.5, Terminal screw
Screwdriver size	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5 mm, Terminal screw, Standard screwdriver
Electrical rating	
Conventional thermal current ith of auxiliary contacts (1-pole, open)	6 A
Rated operational current (Ie) at AC-15, 120 V	1.5 A
Rated operational current (le) 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	0.7 A
Rated operational current (Ie) at AC-15, 500 V	0.5 A
Rated operational current (Ie) 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 (Ie) 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	300 V AC, Between auxiliary contacts and main contacts, According to EN 61140 250 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between main circuits, According to EN 61140
Switching capacity (auxiliary contacts, general use)	0.6 A, 600V AC, (UL/CSA) 1.5 A, 240V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	D300, AC operated (UL/CSA) R300, DC operated (UL/CSA)
Short-circuit rating	
Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 3 A, max. Fuse, SCCR (UL/CSA) 15 A, max. CB, CB for max. 480 V, SCCR (UL/CSA)
Short-circuit protection rating	4 A gG/gL, Fuse, Type "2" coordination 20 A gG/gL, Fuse, Type "1" coordination Max. 4 A gG/gL, Fuse, Auxiliary contacts
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)	1A
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 8.0

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@ss10.0.1-27-37-15-01 [AKF075014])
Adjustable current range	А	0.6 - 1
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