



Overload relay, I_r= 0.4 - 0.6 A, 1 N/O, 1 N/C, Direct mounting

Part no. ZE-0,6
014333
EL Number 4130477
(Norway)

Product name	Eaton Moeller® series ZE Thermal overload relay
Part no.	ZE-0,6
EAN	4015080143338
Product Length/Depth	52 millimetre
Product height	65 millimetre
Product width	45 millimetre
Product weight	0.075 kilogram
Certifications	UL Category Control No.: NKCR VDE 0660 UL 508 CSA-C22.2 No. 14 IEC/EN 60947-5-1 CSA UL File No.: E29184 CSA Class No.: 3211-03 CSA File No.: 012528 IEC/EN 60947-4-1 IEC/EN 60947 UL CE
Product Tradename	ZE
Product Type	Thermal overload relay
Product Sub Type	None
Public Consumption	Yes
Product Family Description	ES-PMCC-ICP-Eaton Bi-Metal Overload relays
Globally Marketable	Yes

Features	Test/off button Trip-free release Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Reset pushbutton manual/auto
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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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Degree of protection	IP20
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	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 (U _{imp})	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 capacity (flexible with ferrule)		1 x (0.5 - 1.5) mm ² , Main cables 2 x (0.5 - 1.5) mm ² , Main cables 1 x (0.5 - 1.5) mm ² , Control circuit cables
Terminal capacity (solid)		2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (0.75 - 2.5) mm ² , Main 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
Tightening torque		1.2 Nm, Screw terminals

Conventional thermal current I_{th} of auxiliary contacts (1-pole, open)		6 A
Rated operational current (I_e) at AC-15, 120 V		1.5 A
Rated operational current (I_e) at AC-15, 220 V, 230 V, 240 V		1.5 A
Rated operational current (I_e) at AC-15, 380 V, 400 V, 415 V		0.7 A
Rated operational current (I_e) at AC-15, 500 V		0.5 A
Rated operational current (I_e) at DC-13, 110 V		0.4 A
Rated operational current (I_e) at DC-13, 220 V, 230 V		0.2 A
Rated operational current (I_e) at DC-13, 24 V		0.9 A
Rated operational current (I_e) at DC-13, 60 V		0.75 A
Rated operational voltage (U_e) - max		690 V
Safe isolation		300 V AC, Between main circuits, According to EN 61140 250 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between auxiliary contacts and main contacts, 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)		R300, DC operated (UL/CSA) D300, AC operated (UL/CSA)
Voltage rating - max		600

Short-circuit current rating (basic rating)		5 kA, SCCR (UL/CSA) 15 A, max. CB, CB for max. 480 V, SCCR (UL/CSA) 1 A, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating		Max. 4 A gG/gL, Fuse, Auxiliary contacts 20 A gG/gL, Fuse, Type "1" coordination 2 A gG/gL, Fuse, Type "2" coordination

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

Equipment heat dissipation, current-dependent P_{vid}		4.8 W
Heat dissipation capacity P_{diss}		0 W
Heat dissipation per pole, current-dependent P_{vid}		1.6 W
Rated operational current for specified heat dissipation (I_n)		0.6 A
Static heat dissipation, non-current-dependent P_{vs}		0 W
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		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.
10.9.4 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 technology / Overload protection device / Thermal overload relay (ecl@ss10.0.1-27-37-15-01 [AKF075014])		
Adjustable current range	A	0.4 - 0.6
Max. rated operation voltage U _e	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