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278473	254834	254833	216423

Eaton Moeller® series ZB Individual Eaton Moeller® series M22 Release pushbutton, blue, Bezel: titanium, RESET pushbutton, blue, Bezel: titanium flat red, blank

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## **GENERAL SPECIFICATIONS**

General specifications	>	PRODUCTNAME	Eaton Moeller® series ZB Thermal overload relay
•		CATALOG NUMBER	278444
Product specifications	>	MODEL CODE	ZB32-0,4
		EAN	4015082784447
		PRODUCT LENGTH/DEPTH	96 mm
		PRODUCTHEIGHT	67 mm
		PRODUCTWIDTH	45 mm
		PRODUCTWEIGHT	0.141 kg
			CSA-C22.2 No. 60947-4-1-14
			IEC/EN 60947-4-1
			IEC/EN 60947
			CSA

CSA File No.: 012528
CERTIFICATIONS

CSA Class No.: 3211-03
CE

UL

must be observed.

UL File No.: E29184 VDE 0660 UL 60947-4-1

UL Category Control No.: NKCR

## PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0.4 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (1 - 4) mm <sup>2</sup> , Main cables 2 x (1 - 4) mm <sup>2</sup> , Main cables 1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables
	$2 \times (0.75 - 2.5) \text{ mm}^2$ , Control circuit cables
10.11 SHORT-CIRCUIT RATING	must be observed.
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)  AMBIENT OPERATING TEMPERATURE (ENCLOSED) -	8 mm
MIN	25 °C
10.4 CLEARANCES AND CREEPAGE DISTANCES  10.12 ELECTROMA CNEUC COMBATRILLEY	Meets the product standard's requirements.  Is the panel builder's responsibility. The specification
10.12 ELECTROMAGNETIC COMPATIBILITY	must be observed

MOUNTING METHOD	Direct attachment Direct mounting
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to
STRIPPING LENGTH (MAIN CABLE)	10 mm
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
RESET FUNCTION	Automatic Push-button
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	1 A, Class J/CC, max. Fuse, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA)
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
SCREW SIZE	M4, Terminal screw M3.5, Terminal screw, Control circuit cables
ADJUSTABLE CURRENT RANGE - MIN	0.24 A
PROTECTION	Finger and back-of-hand proof, Protection against di actuated from front (EN 50274)
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
FEATURES	Test/off button Phase-failure sensitivity (according to IEC/EN 6094 102) Reset pushbutton manual/auto Trip-free release
STATIC HEAT DISSIPATION, NON-CURRENT- DEPENDENT PVS	0 W
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
VOLTAGE RATING - MAX	600 VAC
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to
SAFEISOLATION	440 V AC, Between main circuits, According to EN 440 V, Between auxiliary contacts and main contact 61140 240 V AC, Between auxiliary contacts, According t
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	1.5 A

CLASS	CLASS 10 A
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the intinstruction leaflet (IL) is observed.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	0.9 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.8 W
PRODUCT CATEGORY	<ul><li>Accessories</li><li>Overload relay ZB up to 150 A</li></ul>
O VERLO AD RELEASE CURRENT SETTING - MIN	0.24 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	0.75 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	5.4 W
HEAT DISSIPATION CAPACITY PDISS	0 W
SUITABLE FOR	Branch circuits, (UL/CSA)
TEMPERATURE COMPENSATION	$\leq 0.25$ %/K, residual error for $T > 40^{\circ}$ Continuous
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 4) mm², Control circuit cables 2 x (1 - 6) mm², Main cables 2 x (0.75 - 4) mm², Control circuit cables 1 x (1 - 6) mm², Main cables
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
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.
RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0.2 A
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	6 A
O VERLO AD RELEASE CURRENT SETTING - MAX	0.4 A
	10.0 M. 11

18 - 8, Main cables

2 x (18 - 14), Control circuit cables

Is the panel builder's responsibility.

TERMINAL CAPACITY (SOLID/STRANDED AWG)

10.9.2 POWER-FREOUENCY ELECTRIC STRENGTH  $_{5/8}^{\rm EO}$ 

DEGREE OF PROTECTION	IP20
OVERVOLTAGE CATEGORY	Ш
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
POLLUTION DEGREE	3
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC 4000 V (auxiliary and control circuits)
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables 1.8 Nm, Screw terminals, Main cables
ADJUSTABLE CURRENT RANGE - MAX	0.4 A
FRAME SIZE	ZB32
SCREWDRIVER SIZE	1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V	1.5 A
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
SHORT-CIRCUIT PROTECTION RATING	25 A gG/gL, Fuse, Type "1" coordination Max. 6 A gG/gL, fuse, Without welding, Auxiliary 2 A gG/gL, Fuse, Type "2" coordination
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V	0.4 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
SHOCK RESISTANCE	10 g, Mechanical, Sinusoidal, Shock duration 10 m
RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	0.9 A
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	B600 at opposite polarity, AC operated (UL/CSA) R300, DC operated (UL/CSA) B300 at opposite polarity, AC operated (UL/CSA)

Catalogs
Characteristic curve
Declarations of conformity
Drawings
eCAD model
Installation instructions
Manuals and user guides
mCAD model
Wiring diagrams

278444

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