



Designed to work together

Discover other Eaton products and accessories built to enhance this product.

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

View more

View less

GENERAL SPECIFICATIONS

	GENERAL SPECIFICATIONS	
General specifications >	PRODUCTNAME	Eaton Moeller® series ZB Thermal overload relay
•	CATALOG NUMBER	278443
Product specifications >	MODEL CODE	ZB32-0,24
	FAN	4015082784430
	PRODUCT LENGTH/DEPTH	96 mm
	PRODUCTHEIGHT	67 mm
	PRODUCTWIDTH	45 mm
	PRODUCTWEIGHT	0.143 kg
	COMPLIANCES	CE Marked
	CERTIFICATIONS	IEC 60947 EN 60947 EN 60947 VDE 0660 CSA Certified UL Listed CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-4-1 VDE 0660 CSA Class No.: 3211-03 IEC/EN 60947 UL 60947-4-1 CE CSA UL Category Control No.: NKCR CSA File No.: 012528 UL UL File No.: E29184

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0.24 A
	1 x (1 - 4) mm ² , Main cables
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (1 - 4) mm ² , Main cables
	2 x (0.75 - 2.5) mm ² , Control circuit cables
	1 x (0.75 - 2.5) mm ² , Control circuit cables
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specification
10.11 SHOKI-CIKCUII KAIING	must be observed.
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	must be observed. 8 mm

MIN 25 °C

MIN	
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specification 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	Push-button Automatic
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	100 kA, Fuse, SCCR (UL/CSA) 1 A, Class J/CC, max. 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	0.16 A
PROTECTION	Finger and back-of-hand proof, Protection against d actuated from front (EN 50274)
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
FEATURES	Reset pushbutton manual/auto Trip-free release Phase-failure sensitivity (according to IEC/EN 6094 102) Test/off button
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

440 V, Between auxiliary contacts and main contact

SAFE ISOLATION	61140 240 V AC, Between auxiliary contacts, According to 440 V AC, Between main circuits, According to El
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 in instruction 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	AccessoriesOverload relay ZB up to 150 A
O VERLO AD RELEASE CURRENT SETTING - MIN	0.16 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° Continuous
TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm², Main cables 2 x (0.75 - 4) mm², Control circuit cables 1 x (0.75 - 4) mm², Control circuit cables 2 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) 5/8	6 A

OVERLOAD RELEASE CURRENT SETTING - MAX	0.24 A
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 8, Main cables 2 x (18 - 14), Control circuit cables
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
DEGREE OF PROTECTION	IP20
O VERVOLTAGE 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)	4000 V (auxiliary and control circuits) 6000 V AC
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	0.24 A
FRAME SIZE	ZB32
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard 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 1 A gG/gL, Fuse, Type "2" coordination Max. 6 A gG/gL, fuse, Without welding, Auxiliary
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
6/8	B300 at onnosite nolarity. AC onerated (UIL/CSA)

SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)

R300, DC operated (UL/CSA)
B600 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

278443

Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power—today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.