Products Digita

BIMETAL OVERLOAD RELAYS 278456



Specifications



How

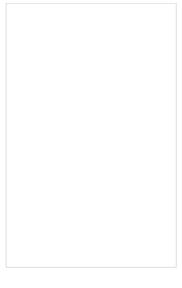


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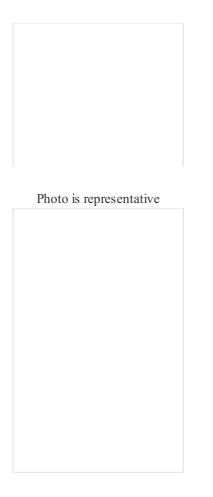


278456

Eaton Moeller® series ZB Overload relay, ZB65, Ir= Direct mounting, IP00



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Designed to work together

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

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Eaton Moeller® series M22 Release pushbutton, blue, Bezel: titanium, RESET

Eaton Moeller® series M22 Release pushbutton, blue, Bezel: titanium

278474

Eaton Moeller® series ZB Individual mounting base, for ZB65 overload relay

216423

Eaton Moeller® series M22 But flat red, blank

View more

GENERAL SPECIFICATIONS

General specifications	>	PRODUCTNAME	Eaton Moeller® series ZB Thermal overload relay
		CATALOG NUMBER	278456
Product specifications	>	MODEL CODE	ZB65-16
		EAN	4015082784560
		PRO DUCT LENGTH/DEPTH	88 mm
		PRODUCTHEIGHT	75 mm
		PRO DUCT WIDTH	60 mm
		PRODUCT WEIGHT	0.22 kg
		CERTIFICATIONS	IEC/EN 60947-4-1 CSA CSA Class No.: 3211-03 CSA-C22.2 No. 60947-4-1-14 UL CE UL 60947-4-1 VDE 0660 CSA File No.: 012528 IEC/EN 60947 UL Category Control No.: NKCR UL File No.: E29184

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	16 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (1 - 25) 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 1 × (1 - 25) mm ² , Main cables
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specification must be observed.
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	8 mm
AMBIENT O PERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
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.
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MO UNTING METHOD	Direct mounting Direct attachment
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to
STRIPPING LENGTH (MAIN CABLE)	11 mm
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	25 A, max. CB, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA) 35 A, Class J/CC, max. Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA)
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 (BASIC RATING)	60 A, max. Fuse, SCCR (UL/CSA) 60 A, max. CB, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	100 kA, Fuse, SCCR (UL/CSA) 35 A, Class J/CC, max. Fuse, SCCR (UL/CSA)
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
SCREW SIZE	M6, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
ADJUSTABLE CURRENT RANGE - MIN	10 A
PROTECTION	Finger and back-of-hand proof, Protection against di actuated from front (EN 50274)
TERMINAL CAPACITY (STRANDED)	1 x (16 - 25) mm ² , Main cables
AMBIENT OPERATING TEMPERATURE - MAX	55 ℃
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
FEATURES	Reset pushbutton manual/auto Phase-failure sensitivity (according to IEC/EN 6094 102) Test/off button 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
10.4 INCODDODATION OF SWITCHING DEVICES AND	

10.6 INCORPORATION OF SWITCHING DEVICES AND

COMPONENTS

10.5 PROTECTION AGAINST ELECTRIC SHOCK	
	Does not apply, since the entire switchgear needs
SAFEISOLATION	240 V AC, Between auxiliary contacts, According 440 V AC, Between main circuits, According to B 440 V, Between auxiliary contacts and main conta 61140
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 instruction leaflet (IL) is observed.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs
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
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	0.9 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	2.1 W
PRODUCT CATEGORY	AccessoriesOverload relay ZB up to 150 A
OVERLOAD RELEASE CURRENT SETTING - MIN	10 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	0.75 A
EQ UIPMENT HEAT DISSIPATION, CURRENT-	6.3 W
DEPENDENT PVID	
DEPENDENT PVID HEAT DISSIPATION CAPACITY PDISS	0 W
	0 W Branch circuits, (UL/CSA)
HEAT DISSIPATION CAPACITY PDISS	
HEAT DISSIPATION CAPACITY PDISS SUITABLE FOR	Branch circuits, (UL/CSA) $\leq 0.25 \ \%/K, \text{ residual error for } T > 40^{\circ}$
HEAT DISSIPATION CAPACITY PDISS SUITABLE FOR TEMPERATURE COMPENSATION	Branch circuits, (UL/CSA) ≤ 0.25 %/K, residual error for T > 40° Continuous1 x (0.75 - 4) mm², Control circuit cables 2 x (0.75 - 4) mm², Control circuit cables 1 x (1 - 16) mm², Main cables
HEAT DISSIPATION CAPACITY PDISS SUITABLE FOR TEMPERATURE COMPENSATION TERMINAL CAPACITY (SOLID) NUMBER OF AUXILIARY CONTACTS (NORMALLY	Branch circuits, (UL/CSA) $\leq 0.25 \%/K$, residual error for T > 40° Continuous 1 x (0.75 - 4) mm ² , Control circuit cables 2 x (0.75 - 4) mm ² , Control circuit cables 1 x (1 - 16) mm ² , Main cables 2 x (1 - 16) mm ² , Main cables

0.2 A
6 A
16 A
2 x (18 - 14), Control circuit cables 14 - 2, Main cables
Is the panel builder's responsibility.
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Is the panel builder's responsibility.
6000 V AC 4000 V (auxiliary and control circuits)
The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
1.2 Nm, Screw terminals, Control circuit cables3.5 Nm, Screw terminals, Main cables
16 A
ZB65
2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver
1.5 A
Meets the product standard's requirements.
Meets the product standard's requirements.
Meets the product standard's requirements.
1
Max. 6 A gG/gL, fuse, Without welding, Auxiliary 35 A gG/gL, Fuse, Type "2" coordination 63 A gG/gL, Fuse, Type "1" coordination
1
0.4 A
690 V

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) B300 at opposite polarity, AC operated (UL/CSA) R300, DC operated (UL/CSA)

Catalogs

Characteristic curve

Declarations of conformity

Drawings

eCAD model

Installation instructions

Manuals and user guides

mCAD model

Wiring diagrams

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