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277196	277370	106371	104811

Eaton Moeller® series DILM Contactor, 380 V 400 V 11 kW, 2 N/O, 1 NC, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals

Eaton Moeller® series DILM Contactor, 380 V 400 V 15 kW, 3 N/O, 2 NC, RDC 24: 24 - 27 V DC, DC operation, Screw terminals

Eaton Moeller® series DILM Contactor, 380 V 400 V 7.5 kW, 2 N/O, 2 NC, RDC 24: 24 - 27 V DC, DC operation, Screw terminals

Eaton Moeller® series DILM Copole, 380 V 400 V 11 kW, RDC DC, DC operation, Screw termin

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GENERAL SPECIFICATIONS

General specifications	>	PRODUCTNAME	Eaton Moeller® series ZB Thermal overload relay
		CATALOG NUMBER	278454
Product specifications	>	MODEL CODE	ZB32-32
		UPC	782116358816
		EAN	4015082784546
		PRODUCT LENGTH/DEPTH	96 mm
		PRODUCTHEIGHT	67 mm
		PRODUCTWIDTH	45 mm
		PRODUCTWEIGHT	0.141 kg
			CSA Class No.: 3211-03

UL IEC/EN 60947-4-1 UL 60947-4-1

UL Category Control No.: NKCR
CSA
CSA File No.: 012528

CE IEC/EN 60947 UL File No.: E29184 CSA-C22.2 No. 60947-4-1-14

VDE 0660

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (1 - 4) mm ² , Main cables 2 x (1 - 4) mm ² , Main 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 must be observed.
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	8 mm
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 ℃
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	Automatic Push-button
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	100 kA, Fuse, SCCR (UL/CSA) 60 A, Class J, max. Fuse, SCCR (UL/CSA)
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
SCREW SIZE	M3.5, Terminal screw, Control circuit cables M4, Terminal screw
ADJUSTABLE CURRENT RANGE - MIN	24 A
PROTECTION	Finger and back-of-hand proof, Protection against di actuated from front (EN 50274)
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MAX CLIMATIC PROOFING	55 °C Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
	Damp heat, cyclic, to IEC 60068-2-30
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Phase-failure sensitivity (according to IEC/EN 6094 102) Test/off button Reset pushbutton manual/auto
CLIMATIC PROOFING FEATURES STATIC HEAT DISSIPATION, NON-CURRENT-	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Phase-failure sensitivity (according to IEC/EN 6094 102) Test/off button Reset pushbutton manual/auto Trip-free release
CLIMATIC PROOFING FEATURES STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Phase-failure sensitivity (according to IEC/EN 6094 102) Test/off button Reset pushbutton manual/auto Trip-free release 0 W
CLIMATIC PROOFING FEATURES STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Phase-failure sensitivity (according to IEC/EN 6094 102) Test/off button Reset pushbutton manual/auto Trip-free release 0 W Screw connection
CLIMATIC PROOFING FEATURES STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT 10.9.3 IMPULSE WITHSTAND VOLTAGE	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Phase-failure sensitivity (according to IEC/EN 6094 102) Test/off button Reset pushbutton manual/auto Trip-free release 0 W Screw connection Is the panel builder's responsibility.
CLIMATIC PROOFING FEATURES STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT 10.9.3 IMPULSE WITHSTAND VOLTAGE VOLTAGE RATING - MAX	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Phase-failure sensitivity (according to IEC/EN 6094 102) Test/off button Reset pushbutton manual/auto Trip-free release 0 W Screw connection Is the panel builder's responsibility. 600 VAC -25 °C
CLIMATIC PROOFING FEATURES STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT 10.9.3 IMPULSE WITHSTAND VOLTAGE VOLTAGE RATING - MAX AMBIENT OPERATING TEMPERATURE - MIN 10.6 INCORPORATION OF SWITCHING DEVICES AND	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Phase-failure sensitivity (according to IEC/EN 6094 102) Test/off button Reset pushbutton manual/auto Trip-free release 0 W Screw connection Is the panel builder's responsibility.

RA IED OPERA HONAL 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	2 W
PRODUCT CATEGORY	AccessoriesOverload relay ZB up to 150 A
OVERLOAD RELEASE CURRENT SETTING - MIN	24 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	0.75 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
SUITABLE FOR	Branch circuits, (UL/CSA)
TEMPERATURE COMPENSATION	Continuous ≤ 0.25 %/K, residual error for T > 40°
TERMINAL CAPACITY (SOLID)	$2 \times (0.75 - 4) \text{ mm}^2$, Control circuit cables $1 \times (0.75 - 4) \text{ mm}^2$, Control circuit cables $1 \times (1 - 6) \text{ mm}^2$, Main cables $2 \times (1 - 6) \text{ mm}^2$, 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	32 A
TERMINAL CAPACITY (SOLID/STRANDED AWG) 5/8	2 x (18 - 14), Control circuit cables

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10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
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)	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	1.8 Nm, Screw terminals, Main cables1.2 Nm, Screw terminals, Control circuit cables
ADJUSTABLE CURRENT RANGE - MAX	32 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	125 A gG/gL, Fuse, Type "1" coordination 63 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
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	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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