Products Digita

ZEB MOTOR PROTECTION RELAYS 136487











136487

Eaton Moeller® series ZEB Overload relay, Direct 1 protection: none, Ir= 1 - 5 A, 1 N/O, 1 N/C ZEB32-5

How to buy



Designed to work together

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100421

Eaton Moeller® series SDAINL Star-delta contactor combination, 380 V 400 V: 30 kW, 24 V DC, DC operation

100419

Eaton Moeller® series SDAINL Star-delta contactor combination, 380 V 400 V: 15 kW, 24 V DC, DC operation

100420

Eaton Moeller® series SDAINL Star-delta contactor combination, 380 V 400 V: 22 kW, 24 V DC, DC operation

101383

Eaton Moeller® series SDAINL contactor combination, 380 V 40 kW, 400 V 50 Hz, AC operation

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PRODUCTNAME	Eaton Moeller® series ZEB Electronic overload Rel
CATALOG NUMBER	136487
MODEL CODE	ZEB32-5
EAN	4015081332670
PRO DUCT LENGTH/DEPTH	108 mm
PRODUCTHEIGHT	110 mm
PRODUCTWIDTH	45 mm
PRODUCTWEIGHT	0.245 kg
CERTIFICATIONS	UL Category Control No.: NKCR CSA Class No.: 3211-03 IEC/EN 60947 UL File No.: E1230 UL 508 CSA-C22.2 No. 14 UL CE IEC/EN 60947-4-1 VDE 0660 CSA CSA File No.: 2290956
CATALOG NOTES	Rated operational current: Switch-on and switch-off DC-13, time constant as specified.
PRODUCT SPECIFICATIONS	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	5 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm², 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
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V

General specifications

Product specifications

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)

10.11 SHORT-CIRCUIT RATING

Is the panel builder's responsibility. The specification must be observed.

STRIPPING LENGTH (CONTROL CIRCUIT CABLE)

8 mm

OPERATING VOLTAGE AT AC, 50 HZ - MAX

690 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - 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 mounting Direct attachment

10.2.5 LIFTING

Does not apply, since the entire switchgear needs to

STRIFFENG LENGTH (MAIN CADLE)	13 111111
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	65 °C
OPERATING VOLTAGE AT DC - MAX	0 V
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
RESET FUNCTION	Automatic Push-button
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	20 A, Class J, max. Fuse, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA)
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
SCREW SIZE	M3.5, Terminal screw, Control circuit cables
ADJUSTABLE CURRENT RANGE - MIN	1 A
PROTECTION	Finger and back-of-hand proof, Protection against di actuated from front (EN 50274)
OPERATING VOLTAGE AT DC - MIN	0 V
AMBIENT OPERATING TEMPERATURE - MAX	65 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
FEATURES	Phase-failure sensitivity (according to IEC/EN 6094 102)
STATIC HEAT DISSIPATION, NON-CURRENT- DEPENDENT PVS	0 W
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
VOLTAGE RATING - MAX	600 V
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
EARTH FAULT PROTECTION	None
SAFEISOLATION	600 V AC, Between main circuits, According to EN 240 V AC, Between auxiliary contacts, According t 440 V, Between auxiliary contacts and main contact

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	61140
OPERATING VOLTAGE AT AC, 50 HZ - MIN	230 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	1.5 A
CLASS	Adjustable
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
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.17 W
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	0.9 A
VOLTAGE TYPE	Self powered
PRODUCT CATEGORY	Electronic overload relays ZEB
OVERLOAD RELEASE CURRENT SETTING - MIN	1 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V	0.75 A
SUITABLEFOR	Branch circuits, (UL/CSA)
TERMINAL CAPACITY (SOLID)	1 x (1.5 - 16) mm ² , Main cables 2 x (0.75 - 4) mm ² , Control circuit cables
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
RATED FREQUENCY - MIN	50 Hz
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 A
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V

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OVERLOAD RELEASE CURRENT SETTING - MAX	5 A
TERMINAL CAPACITY (SOLID/STRANDED AWG)	1 x (14 - 4), Main cables 2 x (18 - 12), Control circuit cables
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
DEGREE OF PROTECTION	IP20
OVERVOLTAGE CATEGORY	Ш
RATED FREQUENCY - MAX	60 Hz
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
VOLTAGE TYPE OF OPERATING VOLTAGE	AC
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
POLLUTION DEGREE	3
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC 6000 V (auxiliary circuits)
10.10 TEMPERATURE RISE	
10.10 TEMPERATURE RISE FUNCTIONS	
	Eaton will provide heat dissipation data for the devi
FUNCTIONS	Eaton will provide heat dissipation data for the devision of t
FUNCTIONS OPERATING VOLTAGE AT AC, 60 HZ - MIN	Eaton will provide heat dissipation data for the devi Filament bulb (24 V) 230 V 7 lb-in, Screw terminals
FUNCTIONS OPERATING VOLTAGE AT AC, 60 HZ - MIN TIGHTENING TORQUE	Eaton will provide heat dissipation data for the devi Filament bulb (24 V) 230 V 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cable
FUNCTIONS OPERATING VOLTAGE AT AC, 60 HZ - MIN TIGHTENING TORQUE ADJUSTABLE CURRENT RANGE - MAX	Eaton will provide heat dissipation data for the devi Filament bulb (24 V) 230 V 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cabl 5 A 2, Terminal screw, Pozidriv screwdriver
FUNCTIONS OPERATING VOLTAGE AT AC, 60 HZ - MIN TIGHTENING TORQUE ADJUSTABLE CURRENT RANGE - MAX SCREWDRIVER SIZE	Eaton will provide heat dissipation data for the devision of t
FUNCTIONS OPERATING VOLTAGE AT AC, 60 HZ - MIN TIGHTENING TORQUE ADJUSTABLE CURRENT RANGE - MAX SCREWDRIVER SIZE RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V	Eaton will provide heat dissipation data for the devision of t
FUNCTIONS OPERATING VOLTAGE AT AC, 60 HZ - MIN TIGHTENING TORQUE ADJUSTABLE CURRENT RANGE - MAX SCREWDRIVER SIZE RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V 10.2.2 CORROSION RESISTANCE 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)	Eaton will provide heat dissipation data for the devision of t
FUNCTIONS OPERATING VOLTAGE AT AC, 60 HZ - MIN TIGHTENING TORQUE ADJUSTABLE CURRENT RANGE - MAX SCREWDRIVER SIZE RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V 10.2.2 CORROSION RESISTANCE 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Eaton will provide heat dissipation data for the devision of t
FUNCTIONS OPERATING VOLTAGE AT AC, 60 HZ - MIN TIGHTENING TORQUE ADJUSTABLE CURRENT RANGE - MAX SCREWDRIVER SIZE RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V 10.2.2 CORROSION RESISTANCE 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION 10.2.7 INSCRIPTIONS RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60	Eaton will provide heat dissipation data for the devi Filament bulb (24 V) 230 V 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cabl 5 A 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.
FUNCTIONS OPERATING VOLTAGE AT AC, 60 HZ - MIN TIGHTENING TORQUE ADJUSTABLE CURRENT RANGE - MAX SCREWDRIVER SIZE RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V 10.2.2 CORROSION RESISTANCE 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION 10.2.7 INSCRIPTIONS RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX NUMBER OF CONTACTS (NORMALLY OPEN	230 V 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cabl 5 A 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.

NUMBER OF AUXILIARY CONTACTS (NORMALLY	
OPEN CONTACTS)	

NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V	0.4 A
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27 ms Mechanical, According to IEC/EN 60068-2-27
RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	0.9 A
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	R300, DC operated (UL/CSA) B600, AC operated (UL/CSA)

Brochures	
Characteristic curve	
Declarations of conformity	
Drawings	
eCAD model	
Installation instructions	
mCAD model	
Wiring diagrams	

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we're accelerating the planet's transition to renewable energy and helping to
olve the world's most urgent power management challenges.