

Specifications

Photo is representative

Eaton 173425

Eaton Moeller® series PKE Overload relay function, 24 V DC

General specifications

PRODUCT NAME	Eaton Moeller® series PKE Overload relay module
CATALOG NUMBER	173425
EAN	4015081698288
PRODUCT LENGTH/DEPTH	105 mm
PRODUCT HEIGHT	50 mm
PRODUCT WIDTH	105 mm
PRODUCT WEIGHT	0.079 kg
COMPLIANCES	CE
MODEL CODE	PKE-XZMR(24VDC)

Features & Functions

FEATURES	Status display via LED
FUNCTIONS	Adjustable manual/auto reset Overload relay function (the motor-protective circuit-breaker will not trip in the event of an overload)

Ambient conditions, mechanical

MOUNTING POSITION	Right side (of PKE motor-protective circuit-breakers with advanced PKE-XTU...A... trip blocks)
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Terminal capacities

TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE)	0.75 - 2.5 mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14

Short-circuit rating

SHORT-CIRCUIT PROTECTION RATING	6 A gG/gL, Fuse, Contacts
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General

CLASS	Other
LIFESPAN, ELECTRICAL	200,000 Operations
LIFESPAN, MECHANICAL	5,000,000 Operations
MOUNTING METHOD	Direct attachment
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Accessories
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
VOLTAGE TYPE	DC

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	55 °C

Electrical rating

OPERATIONAL VOLTAGE	0.8 - 1.1 x Us
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	7777777 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	7777777 V
RATED OPERATIONAL VOLTAGE (UE) AT DC - MAX	250 V
SAFE ISOLATION	440 V, Between auxiliary contacts and main contacts, According to EN 61140
SAFE ISOLATION	440 V, Between auxiliary contacts and main contacts, According to EN 61140

Magnet system

OPERATIONAL VOLTAGE	0.8 - 1.1 x Us
RATED CONTROL SUPPLY	0 V

VOLTAGE (US) AT AC, 50 HZ - MIN	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	
	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	
	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	
	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	
	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	
	24 V

Contacts

**NUMBER OF AUXILIARY
CONTACTS (CHANGE-
OVER CONTACTS)** 0

**NUMBER OF AUXILIARY
CONTACTS (NORMALLY
CLOSED CONTACTS)** 1

**NUMBER OF AUXILIARY
CONTACTS (NORMALLY
OPEN CONTACTS)** 1

**NUMBER OF CONTACTS
(NORMALLY CLOSED
CONTACTS)** 1

**NUMBER OF CONTACTS
(NORMALLY OPEN
CONTACTS)** 1

Power consumption

**POWER CONSUMPTION
(PICK-UP) AT DC** 0.5 W

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.017 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1.5 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0.61 W
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
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.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.

Resources

BROCHURES

[eaton-motor-protective-circuit-breaker-pke-and-communication-modul-pke-brochure-w12107613en-en-us.pdf](#)

[eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf](#)

CATALOGUES

[Product Range Catalog Switching and protecting motors](#)

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

[DA-DC-00004992.pdf](#)

[DA-DC-00004993.pdf](#)

[DA-DC-00004997.pdf](#)

[DA-DC-00004234.pdf](#)

DECLARATIONS OF CONFORMITY

[DA-DC-00004996.pdf](#)

[DA-DC-00004944.pdf](#)

[DA-DC-00005037.pdf](#)

[DA-DC-00005031.pdf](#)

[DA-DC-00004062.pdf](#)

DRAWINGS

[eaton-manual-motor-starters-pke-accessory-dimensions.eps](#)

[eaton-manual-motor-starters-pke-accessory-3d-drawing.eps](#)

ECAD MODEL

[DA-CE-ETN.PKE-XZMR\(24VDC\)](#)

INSTALLATION INSTRUCTIONS

[IL034007ZU](#)

INSTALLATION VIDEOS

[Video Motor Protective Circuit Breaker PKE](#)

[WIN-WIN with push-in technology](#)

MCAD MODEL

[pke_xzmr.stp](#)

[pke_xzmr.dwg](#)

10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

SALES NOTES	eaton-overload-relay-module-pke-xzmr-flyer-fl034002en-en-us.pdf eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf
WIRING DIAGRAMS	eaton-manual-motor-starters-pke-accessory-wiring-diagram.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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