# DATASHEET - PKE-XZMR(24VDC)

**Overload relay function, 24 V DC**

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| **Part no.** | **PKE-XZMR(24VDC)** |
| | **173425** |
| **EL Number (Norway)** | **4315148** |

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| **General specifications** | |
| Product name | Eaton Moeller® series PKE Overload relay module |
| Part no. | PKE-XZMR(24VDC) |
| EAN | 4015081698288 |
| Product Length/Depth | 105 millimetre |
| Product height | 50 millimetre |
| Product width | 105 millimetre |
| Product weight | 0.079 kilogram |
| Compliances | CE |
| Product Tradename | PKE |
| Product Type | Accessory |
| Product Sub Type | Overload relay module |
| Catalog Notes | External control voltage supply required.<br>1 N/O: for trip indication<br>1 N/C: for switching off the contactor |
| **Features & Functions** | |
| Features | Status display via LED |
| Functions | Overload relay function (the motor-protective circuit-breaker will not trip in the event of an overload)<br>Adjustable manual/auto reset |
| **General information** | |
| Class | Other |
| Lifespan, electrical | 200,000 Operations |
| Lifespan, mechanical | 5,000,000 Operations |
| Mounting method | Direct attachment |
| Overvoltage category | III |
| Pollution degree | 3 |
| Rated impulse withstand voltage (Uimp) | 6000 V AC |
| Voltage type | DC |
| **Ambient conditions, mechanical** | |
| Mounting position | Right side (of PKE motor-protective circuit-breakers with advanced PKE-XTU…A… trip blocks) |
| **Climatic environmental conditions** | |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 55 °C |
| **Terminal capacities** | |
| Terminal capacity (solid/flexible with ferrule) | 0.75 - 2.5 $mm^2$ |
| Terminal capacity (solid/stranded AWG) | 18 - 14 |
| **Electrical rating** | |
| Operational voltage | 0.8 - 1.1 x Us |
| Rated operational current (Ie) at DC-13, 24 V | 1.5 A |
| Rated operational voltage (Ue) at DC - max | 250 V |
| Safe isolation | 440 V, Between auxiliary contacts and main contacts, According to EN 61140 |
| **Short-circuit rating** | |
| Short-circuit protection rating | 6 A gG/gL, Fuse, Contacts |
| **Magnet system** | |
| Rated control supply voltage (Us) at AC, 50 Hz - min | 0 V |
| Rated control supply voltage (Us) at AC, 50 Hz - max | 0 V |
| Rated control supply voltage (Us) at AC, 60 Hz - min | 0 V |

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|---|---|---|
| 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. |
| 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. |

## Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Electronic overload relay (EC001080)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Electronic overload relay (ecl@ss13-27-37-15-02 [AKF076019])

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|---|---|---|
| Mounting method | | Direct attachment |
| Type of electrical connection of main circuit | | Other |
| Adjustable current range | A | 0 - 0 |
| External power supply required | | |
| Rated control supply voltage AC 50 Hz | V | 0 - 0 |
| Rated control supply voltage AC 60 Hz | V | 0 - 0 |
| Rated control supply voltage DC | V | 24 - 24 |
| Voltage type for actuating | | DC |
| Number of auxiliary contacts as normally closed contact | | 1 |
| Number of auxiliary contacts as normally open contact | | 1 |

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|---|---|---|---|
| Number of auxiliary contacts as change-over contact | | | 0 |
| Voltage type (operating voltage) | | | DC |
| Operating voltage AC 50 Hz | | V | |
| Operating voltage AC 60 Hz | | V | |
| Operating voltage DC | | V | 24 - 24 |
| Rated switch current | | A | 1.5 |
| Release class | | | Other |
| Reset function automatic | | | Yes |
| Reset function input | | | |
| Reset function push-button | | | Yes |
| Width | | mm | 105 |
| Height | | mm | 50 |
| Depth | | mm | 105 |


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