

**Shunt release (for power circuit breaker), 400 V 50 Hz, Standard voltage, AC, Screw terminals, For use with: Shunt release PKZ0(4), PKE**

**Part no. A-PKZ0(400V50HZ)  
073190**

| <b>General specifications</b>                        |                                                                                                                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name                                         | Eaton Moeller® series PKZ Shunt release                                                                                                                                     |
| Part no.                                             | A-PKZ0(400V50HZ)                                                                                                                                                            |
| EAN                                                  | 4015080731900                                                                                                                                                               |
| Product Length/Depth                                 | 68 millimetre                                                                                                                                                               |
| Product height                                       | 90 millimetre                                                                                                                                                               |
| Product width                                        | 24 millimetre                                                                                                                                                               |
| Product weight                                       | 0.129 kilogram                                                                                                                                                              |
| Certifications                                       | CSA-C22.2 No. 14<br>UL File No.: E36332<br>CSA<br>UL Category Control No.: NLRV<br>UL<br>UL 508<br>CSA File No.: 165628<br>IEC/EN 60947-4-1<br>CE<br>CSA Class No.: 3211-05 |
| Product Tradename                                    | A-PKZ0                                                                                                                                                                      |
| Product Type                                         | Accessory                                                                                                                                                                   |
| Product Sub Type                                     | Shunt release                                                                                                                                                               |
| Catalog Notes                                        | Cannot be combined with U-PKZ0 undervoltage release<br>Cannot be combined with undervoltage release U-PKZ0                                                                  |
| <b>Features &amp; Functions</b>                      |                                                                                                                                                                             |
| Electric connection type                             | Screw connection                                                                                                                                                            |
| <b>General information</b>                           |                                                                                                                                                                             |
| Product category                                     | Accessories                                                                                                                                                                 |
| Suitable for                                         | Motor safety switch                                                                                                                                                         |
| Used with                                            | Motor protective circuit-breaker                                                                                                                                            |
| Voltage type                                         | AC                                                                                                                                                                          |
| <b>Ambient conditions, mechanical</b>                |                                                                                                                                                                             |
| Mounting position                                    | Can be fitted to left side of the motor protection switch                                                                                                                   |
| <b>Climatic environmental conditions</b>             |                                                                                                                                                                             |
| Ambient operating temperature - min                  | -25 °C                                                                                                                                                                      |
| Ambient operating temperature - max                  | 55 °C                                                                                                                                                                       |
| <b>Terminal capacities</b>                           |                                                                                                                                                                             |
| Terminal capacity (solid/flexible with ferrule)      | 1 x (0.75 - 2.5) mm <sup>2</sup><br>2 x (0.75 - 2.5) mm <sup>2</sup>                                                                                                        |
| Terminal capacity (solid/stranded AWG)               | 2 x (18 - 14)<br>1 x (18 - 14)                                                                                                                                              |
| <b>Electrical rating</b>                             |                                                                                                                                                                             |
| Operational voltage                                  | 0.7- 1.1 x Us (alternating voltage)<br>0.7 - 1.1 x Us (AC)<br>0.7- 1.1 x Us (DC)                                                                                            |
| Rated operational voltage (Ue) at AC - min           | 42 V                                                                                                                                                                        |
| Rated operational voltage (Ue) at AC - max           | 480 V                                                                                                                                                                       |
| Rated operational voltage (Ue) at DC - min           | 24 V                                                                                                                                                                        |
| Rated operational voltage (Ue) at DC - max           | 250 V                                                                                                                                                                       |
| <b>Magnet system</b>                                 |                                                                                                                                                                             |
| Rated control supply voltage (Us) at AC, 50 Hz - min | 400 V                                                                                                                                                                       |
| Rated control supply voltage (Us) at AC, 50 Hz - max | 400 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                                    |  | 0 V                                                                                                                              |
| Rated control supply voltage (Us) at DC - max                                    |  | 0 V                                                                                                                              |
| <b>Contacts</b>                                                                  |  |                                                                                                                                  |
| Number of contacts (change-over contacts)                                        |  | 0                                                                                                                                |
| Number of contacts (normally closed contacts)                                    |  | 0                                                                                                                                |
| Number of contacts (normally open contacts)                                      |  | 0                                                                                                                                |
| <b>Power consumption</b>                                                         |  |                                                                                                                                  |
| Power consumption, pick-up, 50 Hz                                                |  | 5 VA, Pull-in power, Coil in a cold state and 1.0 x Us                                                                           |
| Power consumption, pick-up, 60 Hz                                                |  | 5 VA, Pull-in power, Coil in a cold state and 1.0 x Us                                                                           |
| Power consumption, sealing, 50 Hz                                                |  | 3 VA, Coil in a cold state and 1.0 x Us                                                                                          |
| Power consumption, sealing, 60 Hz                                                |  | 3 VA, Coil in a cold state and 1.0 x Us                                                                                          |
| <b>Design verification</b>                                                       |  |                                                                                                                                  |
| Equipment heat dissipation, current-dependent Pvid                               |  | 0 W                                                                                                                              |
| Heat dissipation capacity Pdis                                                   |  | 0 W                                                                                                                              |
| Heat dissipation per pole, current-dependent Pvid                                |  | 0 W                                                                                                                              |
| Rated operational current for specified heat dissipation (In)                    |  | 0 A                                                                                                                              |
| Static heat dissipation, non-current-dependent Pvs                               |  | 0.5 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

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| Low-voltage industrial components (EG000017) / Shunt release (for power circuit breaker) (EC001023)                                                                                     |   |                  |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss13-27-37-04-18 [AKF016018]) |   |                  |
| Rated control supply voltage AC 50 Hz                                                                                                                                                   | V | 400 - 400        |
| Rated control supply voltage AC 60 Hz                                                                                                                                                   | V | 0 - 0            |
| Rated control supply voltage DC                                                                                                                                                         | V | 0 - 0            |
| Voltage type for actuating                                                                                                                                                              |   | AC               |
| Initial value of the undelayed short-circuit release - setting range                                                                                                                    | A | 0                |
| End value adjustment range undelayed short-circuit release                                                                                                                              | A | 0                |
| Power consumption                                                                                                                                                                       | W | 0.5              |
| Type of electric connection                                                                                                                                                             |   | Screw connection |
| Number of contacts as normally open contact                                                                                                                                             |   | 0                |

|                                               |  |  |     |
|-----------------------------------------------|--|--|-----|
| Number of contacts as normally closed contact |  |  | 0   |
| Number of contacts as change-over contact     |  |  | 0   |
| Suitable for power circuit breaker            |  |  | No  |
| Suitable for off-load switch                  |  |  | No  |
| Suitable for motor safety switch              |  |  | Yes |
| Suitable for overload relay                   |  |  | No  |