DATASHEET - U-PKZ0(24V50HZ)

Undervoltage release PKZ0(4), PKE, AC, 24 V 50 Hz, Screw terminals

Part no. U-PKZ0(24V50HZ)
073129

General specifications	
Product name	Eaton Moeller® series U-PKZ0 Accessory Undervoltage Release
Part no.	U-PKZ0(24V50HZ)
EAN	4015080731290
Product Length/Depth	68 millimetre
Product height	90 millimetre
Product width	24 millimetre
Product weight	0.129 kilogram
Certifications	CSA UL Category Control No.: NLRV CSA-C22.2 No. 14 CSA File No.: 165628 UL IEC/EN 60947-4-1 CE UL 508 UL File No.: E36332 CSA Class No.: 3211-05
Product Tradename	U-PKZ0
Product Type	Accessory
Product Sub Type	Undervoltage Release
General information	
Electric connection type	Screw connection
Mounting position	Can be fitted to left side of the motor protection switch
Product category	Accessories
Suitable as	EMERGENCY STOP or EMERGENCY switching-off device in accordance with IEC/EN 60204 when combined with circuit breaker
Suitable for	Motor safety switch
Used with	Motor protective circuit-breaker
Voltage type	AC
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °C
Terminal capacities	
Terminal capacity (solid/flexible with ferrule)	1 x (0.75 - 2.5) mm^2 2 x (0.75 - 2.5) mm^2
Terminal capacity (solid/stranded AWG)	2 x (18 - 14) 1 x (18 - 14)
Electrical rating	
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
Magnet system	
Drop-out voltage	0,7- 0,35 x Uc
Pick-up voltage	0.85 - 1.1 V x Uc
Rated control supply voltage (Us) at AC, 50 Hz - min	24 V
Rated control supply voltage (Us) at AC, 50 Hz - max	24 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
Contacts	

Number of contacts (change-over contacts)			0
Number of contacts (normally closed contacts)			0
Number of contacts (normally open contacts)			0

Power consumption

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

Design verification

Equipment heat dissipation, current-dependent Pvid			0 W
Heat dissipation capacity Pdiss			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

Low-voltage industrial components (EG000017) / Under voltage coil (EC001022)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Undervoltage trip (ecl@ss13-27-37-04-17 [AKF015018])			
Rated control supply voltage AC 50 Hz		V	24 - 24
Rated control supply voltage AC 60 Hz		V	0 - 0
Rated control supply voltage DC		V	0 - 0
Voltage type for actuating			AC
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
Delayed			No
Suitable for power circuit breaker			No
Suitable for off-load switch			No
Suitable for motor safety switch			Yes
Suitable for overload relay			No