## DATASHEET - AGM2-10-PKZ0



Trip indicator switch, 2N/O, screw connection

AGM2-10-PKZ0 072898 Alternate Catalog XTPAXSATR20

FAC•N Powering Business Worldwide"

**EL-Nummer** 4355133 (Norway)

Part no. Catalog No.

No.

## **Delivery program**

Product range	Accessories
Accessories	Trip-indicating auxiliary contacts
	Differential status indication a) General trip indication (overload) b) Short-circuit release Short-circuits indicated locally by means of a red indicator that can be manually reset
Contacts	
N/O = Normally open	2 x 1 N/0
Contact diagram	On/Off
	Trip "+"
Contact sequence	
For use with	Trip indicator PKZ0(4), PKE
For use with	PKZM0 PKZM4 PKZM0-T PKM0 PKZM01 PKE
Can be combined with auxiliary contact	NHI11-PKZ0 NHI12-PKZ0 NHI21-PKZ0 NHI-E
<b>Notes C</b> an be fitted to the right of: Motor protective circuit-breaker	

#### **Technical data Auxiliary contacts**

Auxiliary contacts			
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Overvoltage category/pollution degree			111/3
Rated operational voltage	Ue	V	
	U <sub>e</sub>	V DC	250
Safe isolation to EN 61140			
Between auxiliary contacts and main contacts		V AC	690
Rated operational current	l <sub>e</sub>	А	
AC-15			

20-249VIqIqIqIqIq30-415VIqIqIqIq30-415VIqIqIqIq4V 500VIqIqIqIq10-13L/R-100msIqIqIqIq24VIqIqIqIq10VIqIqIqIq20VIqIqIqIq10VIqIqIqIq20VIqIqIqIq10VIqIqIqIq20VIqIqIqIq10VIqIqIqIq10VIqIqIqIq10VIqIqIqIq10VIqIqIqIq10VIqIqIqIq10VIqIqIqIq10VIqIqIqIq10VIqIqIqIq10VIqIqIqIq10Ind Ind Ind Ind Ind Ind Ind Ind Ind Ind				
40 V50V     I       40 V50V     I       0C-13 UR - 100 ms     I       24V     I       60 V     I       60 V     I       110 V     I       220 V     I       220 V     I       110 V     I       220 V     I       110 V     I       110 V     I       220 V     I       110 V     I       110 V     I       220 V     I       110 V     I       Itespan, mechanical     I </td <td>220 - 240 V</td> <td>l<sub>e</sub></td> <td>А</td> <td>3.5</td>	220 - 240 V	l <sub>e</sub>	А	3.5
DC-13 LR - 100 msImage: second se	380 - 415 V	l <sub>e</sub>	А	2
And QAnd QAnd QAnd QGOVInAndIn10VInAndIn20VInAndInLifespanInX ndVInLifespan, nechnicalOperatoraX ndVInControl circuit reliabilityOperatoraX ndVInShort-circuit reliabilitySinter at 00 million operations (Lifespan electricalNoVSinter at 00 million operations (Lifespan electricalShort-circuit reliabilitySinter at 00 million operations (Lifespan electricalNoVSinter at 00 million operations (Lifespan electricalShort-circuit reliabilitySinter at 00 million operations (Lifespan electricalNoVSinter at 00 million operations (Lifespan electricalShort-circuit reliabilitySinter at 00 million operations (Lifespan electricalNoVSinter at 00 million operations (Lifespan electricalShort-circuit reliabilitySinter at 00 million operations (Lifespan electricalNoVSinter at 00 million operations (Lifespan electricalShort-circuit reliabilitySinter at 00 million operations (Lifespan electricalNoVSinter at 00 million operations (Lifespan electricalShort-circuit reliabilitySinter at 00 million operations (Lifespan electricalSinter at 00 million operations (Lifespan electricalShort-circuit reliabilitySinter at 00 million operations (Lifespan electricalSinter at 00 million operations (Lifespan electricalShort-circuit reliabilitySinter at 00 million operations (Lifespan electrical <td< td=""><td>440 V 500 V</td><td>le</td><td>А</td><td>1</td></td<>	440 V 500 V	le	А	1
NoteNoteNote60VNoteNote10VNoteNote22VNoteNote22VNoteNoteIdespan, mechanicalOperationsNoteIdespan, electricalOperationsNoteIdespan, electricalOperationsNoteNote-circuit reliabilityOperationsNoteShort-circuit reliabilityNoteNotePuselessNoteNoteFuselessNoteNoteNote-circuit reliabilityNoteNoteNote-circuit reliabilityNoteNoteSubdor flexible conductor, with ferruleNoteNoteNote-circuit reliabilityNoteNoteNote-circuit reliability	DC-13 L/R - 100 ms			
InVInAA10VInAS20VInSSLifespan, mechanicalOperationN®N®Lifespan, electricalOperatorN®N®Control circuit reliabilityOperatorN®N®Short-circuit rating without weldingFSSoShort-circuit rating without weldingTypeF2ABU/LINING SANBShort-circuit rating without weldingTypeF3ABUSoShort-circuit rating welding	24 V	le	А	2
ZOV     And Base     And Secon	60 V	le	А	1
Lifespan, mechanical     Operation     A rule     Sound       Lifespan, mechanical     Operator     x rule     0.01       Lifespan, electrical     Operator     x rule     0.05       Control circuit reliability     Pailure at     Not     rule - 24 V DC, Umin = 17 V, Imin = 5.4 mA)       Short-circuit rating without welding     Image: Sound and the	110 V	le	А	0.5
Idespan, enchanicalOperationsx 10°>0.0Idespan, electricalOperationsx 10°05Control circuit reliabilityFailuereatNNNo <sup>3</sup> operafiaire at 100 million operations alse a 24 VDC, Umin = 17 V, Imin = 54 mAShort-circuit rating without weldingFailuereatNNoNoFuselessYYMNoFuselessYNoAcadeNoNoFuselessYNoNoNoNoFuselesYNoNoNoNoFuselesYNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNoFuselesNoNoNoNoNo	220 V	le	А	0.25
Lifespan, electrical     Operations     x 10 <sup>a</sup> Operations     All operations     Operations     All operations	Lifespan		S	
Control circuit reliability   Failure rat   have rate	Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 0.01
kink initial initinitial initial initial initial initial	Lifespan, electrical	Operations	x 10 <sup>6</sup>	0.05
FuselessFugeFAZ-B4/1-HIFuseA g d/g d/g d/g d/g d/g d/g d/g d/g d/g d	Control circuit reliability	Failure rate	λ	$<10^{-8}$ , < one failure at 100 million operations (at U <sub>e</sub> = 24 V DC, U <sub>min</sub> = 17 V, I <sub>min</sub> = 5.4 mA)
Fuse     A g G/L       Fuse     A g G/L       Terminal capacities     mm²       Solid or flexible conductor, with ferrule     mm²       ohr der mehrdrähtig     AWG       Bata for approved types     J       Pilot Duty     AC operated       General Use     J       AC     AC	Short-circuit rating without welding			
Terminal capacities     Solid or flexible conductor, with ferrule   mm <sup>2</sup> 0.75 - 2.5     ein- oder mehrdrähtig   AWG   18 - 14     Rating data for approved types   MWG   18 - 14     Pilot Duty   AC operated   ACO     DC operated   MMG   ACO     AC operated   MMG   ACO     AC operated   MMG   ACO     DC operated   MMG   ACO     AC   MMG   ACO     AC   MMG   ACO     AC   MMG   ACO     AC   MMG   MGG     AC   MMG   MGG     AC   MMG   MGG     AC   MMG   MGG     AC   MGG   MGG     AC <td>Fuseless</td> <td></td> <td>Туре</td> <td>FAZ-B4/1-HI</td>	Fuseless		Туре	FAZ-B4/1-HI
Solid or flexible conductor, with ferrule Imm2 0,75 - 2,5   ein- oder mehrdrähtig AWG 18 - 14   Rating data for approved types   Pilot Duty Imm2 A600   DC operated Imm2 A600   DC operated Imm2 A600   General Use Imm2 A600   AC Imm2 A600   DC Imm2 A600   DC Imm2 A600   DC Imm2 A600   Imm2 Imm2 Imm2   Imm2 Imm2 Imm2   Imm2 Imm2 Imm2   Imm2			A gG/gL	10
ein- oder mehrdrähtig AWG 18- 14   Rating data for approved types Filot Duty Filot Duty   AC operated Filot Duty A600   DC operated Filot Duty Ja00   General Use Filot Duty G00   AC Filot Duty G00   AC Filot Duty G00   AC Filot Duty G00   AC Filot Duty Filot Duty   AC Filot Duty Filot Duty	Terminal capacities			
Pilot Duty   Image: Pilot Duty     AC operated   Image: Pilot Duty     DC operated   A600     General Use   A00     AC   Image: Pilot Duty     Image: Pilot Duty   Image: Pilot Duty <t< td=""><td>Solid or flexible conductor, with ferrule</td><td></td><td>mm<sup>2</sup></td><td>0,75 - 2,5</td></t<>	Solid or flexible conductor, with ferrule		mm <sup>2</sup>	0,75 - 2,5
Pilot Duty AC operated A600   DC operated A00 300   General Use V 600   AC A 5   DC V 500			AWG	18 - 14
AC operated A600   DC operated 300   General Use V   AC V   AC A   DC V   Solution V   Solution A   DC V	Rating data for approved types			
DC operatedA000General UseACACVACACDCVDCV	Pilot Duty			
General UseImage: Comparison of the compa	AC operated			A600
AC V 600   AC A 5   DC V 250	DC operated			Ω300
AC A 5 DC V 250	General Use			
DC V 250	AC		V	600
	AC		А	5
DC A 1	DC		V	250
	DC		А	1

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	А	3.5
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.1
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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 7.0**

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

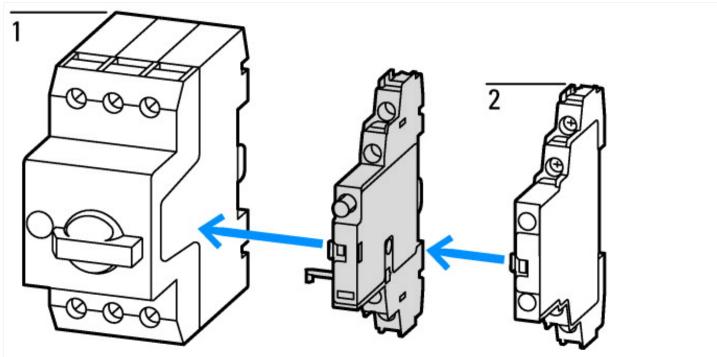
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013]) 0 Number of contacts as change-over contact 2 Number of contacts as normally open contact Number of contacts as normally closed contact 0 Number of fault-signal switches 1 Rated operation current le at AC-15, 230 V 35

hated operation current le at A0-13, 200 V	A	0.0
Type of electric connection		Screw connection
Model		Top mounting
Mounting method		Side mounting
Lamp holder		None

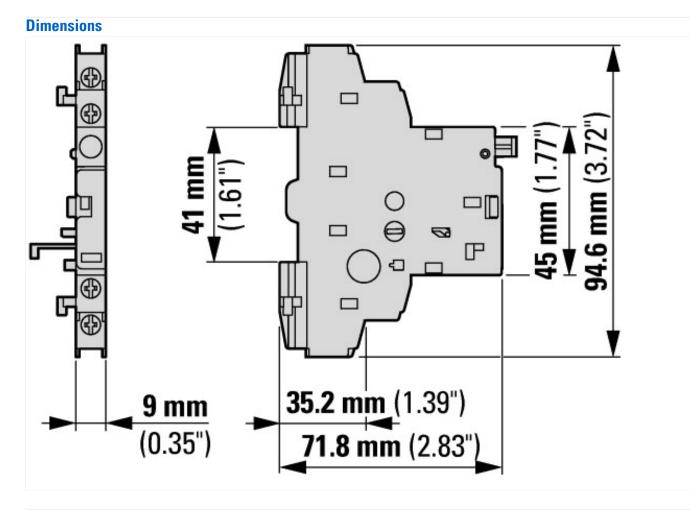
## **Approvals**

Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	165628
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Specially designed for North America	No

## **Characteristics**



1: Motor-protective circuit-breakers 2: Standard auxiliary contact



## Assets (links)

Declaration of CE Conformity 00002889 Instruction Leaflets IL03402030Z2018\_04