## DATASHEET - AT4/11-S/I/H



Position switch, 1N/0+1N/C, narrow, IP65\_x, actuating rod

Part no.AT4/11-S/I/HCatalog No.076435Alternate CatalogAT4/11-S/I/HNo.No.



# Delivery program

Delivery program	
Basic function	Position switches
Part group reference	AT4
Product range	Actuating rod
Degree of Protection	IP65
Features	Complete unit
Ambient temperature	°C -25 - +70
Design	EN 50041 Form D
Snap-action contact	Yes
Description	Not to be used as a safety position switch
Approval	totally insulated
Contacts	
N/O = Normally open	1 N/0
N/C = Normally closed	1 NC
Contact sequence	$-\frac{13}{14}$
Contact travel = Contact closed = Contact open	$\begin{array}{c} 13.14 \\ 21.22 \\ 13.14 \\ 21.22 \\ 0^{\circ}  22^{\circ}  38^{\circ}  72^{\circ} \\ Zw = 58^{\circ} \end{array}$
Colour	
Enclosure covers	Grey
Enclosure covers	
Housing	Insulated material
Connection type	Screw terminal

For degree of protection IP65, use V-M20 (206910) cable glands with connecting thread of max. 9 mm length.

Technical data General			
Standards			IEC/EN 60947
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30
Ambient temperature		°C	-25 - +70
Mounting position			As required
Degree of Protection			IP65
Terminal capacities		mm <sup>2</sup>	
Solid		mm <sup>2</sup>	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)
Flexible with ferrule		mm <sup>2</sup>	1 x (0.5 - 1.5) 2 x (0.5 - 1.5)
Repetition accuracy		mm	0.02
Contacts/switching capacity			
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Rated insulation voltage	Ui	V	500
Overvoltage category/pollution degree			111/3
Rated operational current	le	А	
AC-15			
24 V	l <sub>e</sub>	А	10
220 V 230 V 240 V	l <sub>e</sub>	А	6
380 V 400 V 415 V	le	А	4
DC-13			
24 V	l <sub>e</sub>	А	10
110 V	l <sub>e</sub>	А	1
220 V	l <sub>e</sub>	А	0.5
Supply frequency		Hz	max. 400
Short-circuit rating to IEC/EN 60947-5-1			
max. fuse		A gG/gL	6
Rated conditional short-circuit current		kA	1
Mechanical variables			
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	8
Contact temperature of roller head		°C	≦ 100
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		g	5
Snap-action contact		g	2
Operating frequency	Operations/h		≦ 6000
Actuation			
Mechanical			
Actuating force at beginning/end of stroke		N	8.0/20.0
Actuating torque of rotary drives		Nm	0.3
Max. operating speed with DIN cam		m/s	1.4
Notes			L = 130 mm

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	6
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	70
EC/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**

#### Sensors (EG000026) / End switch (EC000030)

Sensors (EGUUUU26) / End Switch (ECUUUU30)		
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss10.0.1-27-27-06-01 [AGZ382015])		
Width sensor	mm	40
Diameter sensor	mm	0
Height of sensor	mm	83
Length of sensor	mm	0
Rated operation current le at AC-15, 24 V	А	10
Rated operation current le at AC-15, 125 V	А	0
Rated operation current le at AC-15, 230 V	А	6
Rated operation current le at DC-13, 24 V	А	10
Rated operation current le at DC-13, 125 V	А	1
Rated operation current le at DC-13, 230 V	А	0.4
Switching function		Quick-break switch
Switching function latching		No
Output electronic		No
Forced opening		Yes
Number of safety auxiliary contacts		1
Number of contacts as normally closed contact		1
Number of contacts as normally open contact		1
Number of contacts as change-over contact		0
Type of interface		None
Type of interface for safety communication		None
Construction type housing		Cuboid
Material housing		Plastic
Coating housing		Other
Type of control element		Actuating rod
Alignment of the control element		Other
Type of electric connection		Other

With status indication		No
Suitable for safety functions		Yes
Explosion safety category for gas		None
Explosion safety category for dust		None
Ambient temperature during operating	°C	25 - 70
Degree of protection (IP)		IP65
Degree of protection (NEMA)		Other

### **Approvals**

ut Standards UL 5	_ 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; CE marking
No. E291	9184
egory Control No. NKC	KCR
e No. 1252	528
ass No. 3211	11-03
America Certification UL li	listed, CSA certified
lly designed for North America No	0
e for Brai	ranch circuits
oltage Rating 600	0 V AC
e of Protection UL:	.: 1, 4X; CSA: 1, 3R, 4, 4X, 12, 13

## Assets (links)

Declaration of CE Conformity 00002833 Instruction Leaflets IL05208012Z2018\_06

## Additional product information (links)

IL05208012Z (AWA1310-0544) Position switch

IL05208012Z (AWA1310-0544) Position switch ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL05208012Z2018\_06.pdf