DATASHEET - AT4/11-S/I/R416

No.



Position switch, 1N/O+1N/C, narrow, IP65_x, roller lever

Part no. Catalog No. 038292 Alternate Catalog AT4-11-S-I-R416

AT4/11-S/I/R416

Powering Business Worldwide

Delivery program

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reduct range gene of Protection eathers Complete unit Complete u	Basic function		
legree of Protection entures entures mbient tongerature *C 25 - 70 EN SOURT FORM A repraction contact Yes Totalty insulated	Part group reference		AT4
Setures Setures Setu	Product range		Rotary lever
inhient temperature **C	Degree of Protection		IP65
EN 50041 Form A Yes Provel Totally insulated	Features		Complete unit
rap-action contact pproval contacts N/O = Normally open Notes	Ambient temperature	°C	-25 - +70
Cotally insulated Cota	Design		EN 50041 Form A
Contacts N/O = Normally open Notes Notes Notes Selection of the travel = Contact closed = Contact open outline travel = Contact closed = Contact open Solitive opening (ZW) Enclosure covers Enclosure covers Enclosure covers Insulated material Screw terminal Screw terminal	Snap-action contact		Yes
N/O = Normally open N/C = Normally closed Notes Notes Ontact sequence ontact travel = Contact closed = Contact open in the contact closed = Contact closed = Contact open in the contact closed = Contact closed = Contact open in the contact closed = Contact closed = Contact open in the contact closed = Co	Approval		totally insulated
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ontact trave = Contact closed = Contact open 13 14 22 13-14 22 13-14 21-22 13-14	Notes		e safety function, by positive opening to IEC/EN 60947-5-1
ositive opening (ZW) per Solour Enclosure covers Enclosure covers Insulated material onnection type Screw terminal 21:22	Contact sequence		<u> </u>
Enclosure covers Enclosure covers Insulated material Screw terminal Screw terminal	Contact travel = Contact closed = Contact open		13:14 21-22 0° 22° 38° 72°
Enclosure covers Enclosure covers Ousing Insulated material Screw terminal Lotes The operating head can be rotated at 90° intervals to adapt to the specified approach direction.	Positive opening (ZW)		yes
Enclosure covers Insulated material Screw terminal Lotes The operating head can be rotated at 90° intervals to adapt to the specified approach direction.	Colour		
lousing Insulated material onnection type Screw terminal lotes The operating head can be rotated at 90° intervals to adapt to the specified approach direction.	Enclosure covers		Grey
onnection type Screw terminal lotes The operating head can be rotated at 90° intervals to adapt to the specified approach direction.	Enclosure covers		
lotes The operating head can be rotated at 90° intervals to adapt to the specified approach direction.	Housing		Insulated material
lotes The operating head can be rotated at 90° intervals to adapt to the specified approach direction. or degree of protection IP65, use V-M20 (206910) cable glands with connecting thread of max. 9 mm length.	Connection type		Screw terminal
	Notes The operating head can be rotated at 90° intervals to adapt to the specified approach direction. For degree of protection IP65, use V-M20 (206910) cable glands with connecting thread of max. 9 mm length.		

Technical data

Gen	er	al		
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delicial			
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^2	
Solid		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)
Flexible with ferrule		mm ²	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_{imp}	V AC	6000
Rated insulation voltage	Ui	V	500
Overvoltage category/pollution degree			III/3
Rated operational current	I _e	Α	
AC-15			
24 V	l _e	Α	10
220 V 230 V 240 V	I _e	Α	6
380 V 400 V 415 V	I _e	Α	4
DC-13			
24 V	Ie	Α	10
110 V	I _e	Α	1
220 V	I _e	Α	0.5
Supply frequency		Hz	max. 400
Short-circuit rating to IEC/EN 60947-5-1			
max. fuse		A gG/gL	6
Mechanical variables			
Lifespan, mechanical	Operations	x 10 ⁶	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

Design verification as per IEC/EN 61439

echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.1
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
C/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

Technical data ETIM 7.0				
Sensors (EG000026) / End switch (EC000030)				
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	Α	0		
Rated operation current le at AC-15, 230 V	Α	6		
Rated operation current le at DC-13, 24 V	А	10		
Rated operation current le at DC-13, 125 V	Α	1		
Rated operation current le at DC-13, 230 V	Α	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		Rotary lever		
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

PP	
Product Standards	UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	12528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Specially designed for North America	No
Suitable for	Branch circuits
Max. Voltage Rating	600 V AC
Degree of Protection	UL: 1, 4X; CSA: 1, 3R, 4, 4X, 12, 13