DATASHEET - AT0-02-1-IA/R



Position switch, 2 N/C, wide, IP65_x, roller lever

Part no. AT0-02-1-IA/R Catalog No. 009968 Alternate Catalog AT0-02-1-IA-R



Delivery program

Degree of Protection	IP65
Contacts	
N/C = Normally closed	2 NC →
Notes	= safety function, by positive opening to IEC/EN 60947-5-1
Contact sequence	0
Contact travel = Contact closed = Contact open	11-12 21-22 0° 27° 54° Zw = 44°
Housing	Wide version

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		
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		
Rated operational current	l _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	l _e	Α	4		
DC-13					
24 V	I _e	Α	10		
110 V	l _e	Α	1		
220 V	l _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					
Contact temperature of roller head		°C	≦ 100		
Mechanical shock resistance (half-sinusoidal shock, 20 ms)					
Standard-action contact		g	25		

Snap-action contact		g	2
Operating frequency	Operations/h		≦ 6000
Actuation			
Mechanical			
Actuating torque of rotary drives		Nm	0.2
Max. operating speed with DIN cam		m/s	1.5

Design verification as per IEC/EN 61439

Design vermoation as per 120/214 01703			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.13
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
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

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	51	
Diameter sensor		mm	0	
Height of sensor		mm	51	
Length of sensor		mm	0	
Rated operation current le at AC-15, 24 V		Α	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	Α	10
Rated operation current le at DC-13, 125 V	Α	1
Rated operation current le at DC-13, 230 V	Α	0.5
Switching function		Slow-action switch
Switching function latching		No
Output electronic		No
Forced opening		Yes
Number of safety auxiliary contacts		1
Number of contacts as normally closed contact		2
Number of contacts as normally open contact		0
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

Assets (links)

Declaration of CE Conformity

00002834

Instruction Leaflets

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