

Position switch, 1N/O+1N/C, wide, IP65_x, rounded plunger, centre fixing

Powering Business Worldwide

Part no. AT0-11-1-IA/ZS Article no. 055053 Catalog No. AT0-11-1-IA-ZS

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 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) |
| | | 2 x (0.5 - 1.5) |

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 | l _e | Α | |
| AC-15 | | | |
| 24 V | l _e | Α | 10 |
| 220 V 230 V 240 V | l _e | Α | 6 |
| 380 V 400 V 415 V | l _e | Α | 4 |
| DC-13 | | | |
| 24 V | l _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 |
| Repetition accuracy | | mm | 0.02 |

Mechanical variables

| Lifespan, mechanical | Operations | x 10 ⁶ | 20 |
|--|--------------|-------------------|----------------------------------|
| Notes | | | (If approached from the side: 1) |
| 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

| - 1 | Mechanical | | | |
|-----|--|-----|-----|---|
| | Actuating force at beginning/end of stroke | N | 1 | .0/8.0 |
| | Actuating torque of rotary drives | Nm | n 0 | 0.2 |
| | Max. operating speed with DIN cam | m/s | s 1 | /0.5 |
| | Notes | | fe | or angle of actuation $\alpha=0^{\circ}/30^{\circ}$ |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|----|---|---|
| Rated operational current for specified heat dissipation | In | Α | 6 |

| provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear nobserved. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear nobserved. | | | | |
|--|--|-------------------|----|--|
| Static heat dissipation, non-current-dependent Pess W 0 Departing ambient temperature min. Operating ambient temperature min. Departing ambient temperature min. Operating | Heat dissipation per pole, current-dependent | P_{vid} | W | 0.13 |
| Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. **C - 25 **C - 25 **To **C - 70 **ECKPN 81439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.4 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3.0 Egree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Inscription feeds and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Power-frequency electric strength 10.9 Insulation properties 10.9 Power-frequency electric strength 10.9 Insulation properties 10.9 The panel builder's responsibility. 10.9 Insulation properties 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit reting 10.12 Electromagnetic compatibility 10.13 Mechanical function The device meets the requirements, provided the information in the instruct 10.13 Mechanical function The device meets the requirements, provided the information in the instruct 10.10 Temperature rise The panel builder's responsibility. The device meets the requirements, provided the information in the instructions. | Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
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| observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruct | 10.11 Short-circuit rating | | | Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$ |
| | 10.12 Electromagnetic compatibility | | | Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$ |
| | 10.13 Mechanical function | | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 6.0

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@ss8.1-27-27-06-01 [AGZ382012])

| 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 | А | 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 |
| 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 |
| Housing according to norm | | - |
| Construction type housing | | Cuboid |
| Material housing | | Plastic |
| Coating housing | | - |
| Type of control element | | Plunger |
| Alignment of the control element | | - |
| Type of electric connection | | - |
| 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 |