



012352
AT0-11-S-IA

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as
per IEC/EN 61439

Technical data ETIM 7.0

DELIVERY PROGRAM

Basic function
Position switches
Safety position switches

Part group reference
AT0

Product range
Rounded plunger

Degree of Protection
IP65

Features
Basic device, expandable

Ambient temperature
-25 - +70 °C

Design
EN 50047 Form B

Snap-action contact
Yes

Approval



Contacts

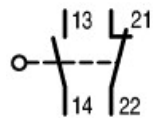
N/O = Normally open
1 NO

N/C = Normally closed
1 NC ☐

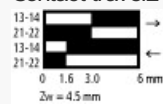
Notes

☐ = safety function, by positive opening to IEC/EN
60947-5-1

Contact sequence



Contact travel ■ = Contact closed ☐ = Contact open



Positive opening (ZW)
yes

Colour

Enclosure covers
Grey

Enclosure covers



Housing
Wide version

Connection type
Screw terminal

Notes

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
-25 - +70 °C

Mounting position
As required

Degree of Protection
IP65

Terminal capacities
Solid
1 x (0.75 - 2.5)
2 x (0.75 - 1.5) mm²

Terminal capacities
Flexible with ferrule
1 x (0.5 - 1.5)
2 x (0.5 - 1.5) mm²

Repetition accuracy
0.02 mm

Contacts/switching capacity

Rated impulse withstand voltage [U_{imp}]
6000 V AC

Rated insulation voltage [U_i]
500 V

Overvoltage category/pollution degree
III/3

Rated operational current [I_e]
AC-15
24 V [I_e]
10 A

Rated operational current [I_e]
AC-15
220 V 230 V 240 V [I_e]
6 A

Rated operational current [I_e]
AC-15
380 V 400 V 415 V [I_e]
4 A

Rated operational current [I_e]
DC-13
24 V [I_e]
10 A

Rated operational current [I_e]
DC-13
110 V [I_e]
1 A

Rated operational current [I_e]
DC-13
220 V [I_e]
0.5 A

Supply frequency
max. 400 Hz

Short-circuit rating to IEC/EN 60947-5-1
max. fuse
6 A gG/gL

Mechanical variables

Lifespan, mechanical [Operations]
20 x 10⁶

Notes

(If approached from the side: 1)

Contact temperature of roller head
☐ 100 °C

Mechanical shock resistance (half-sinusoidal
shock, 20 ms)
Standard-action contact
25 g

Mechanical shock resistance (half-sinusoidal
shock, 20 ms)
Snap-action contact
2 g

Operating frequency [Operations/h]
☐ 6000

Actuation

Mechanical
Actuating force at beginning/end of stroke
1.0/8.0 N

Mechanical
Actuating torque of rotary drives
0.2 Nm

Mechanical
Max. operating speed with DIN cam
1/0.5 m/s

Mechanical
Notes
for 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 [I_n]
6 A

Heat dissipation per pole, current-dependent [P_{vd}]
0.13 W

Equipment heat dissipation, current-dependent [P_{vd}]
0 W

Static heat dissipation, non-current-dependent [P_{vs}]
0 W

Heat dissipation capacity [P_{diss}]
0 W

Operating ambient temperature min.
-25 °C

Operating ambient temperature max.
+70 °C

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 Strength of materials and parts
10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts
10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
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 Insulation properties
10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties

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
51 mm

Diameter sensor
0 mm

Height of sensor
51 mm

Length of sensor
0 mm

Rated operation current I_e at AC-15, 24 V
10 A

Rated operation current I_e at AC-15, 125 V
0 A

Rated operation current I_e at AC-15, 230 V
6 A

Rated operation current I_e at DC-13, 24 V
10 A

Rated operation current I_e at DC-13, 125 V
1 A

Rated operation current I_e at DC-13, 230 V
0.5 A

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
1

Number of contacts as normally open contact
1

Number of contacts as change-over contact

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
Flunger

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
25 - 70 °C

Degree of protection (IP)
IP65

Degree of protection (NEVA)
Other

