DATASHEET





SSW301HV-230V

- Fail-safe standstill monitors
- This fail-safe standstill monitor has the particular advantage that no adjustment for a required-value is needed during comissioning.
- 3 safety contacts, STOP 0
- Control category 4 to ISO 13849-1

Data

Ordering data

EAN (European Article Number) 4250116202591

eCl@ss number, Version 9.0 27-37-18-19

eCl@ss number, Version 11.0 27-37-18-19

ETIM number, version 6.0 EC001449

Approval - Standards

Certificates cULus

CCC

EAC

General data

Standards IEC 61508

IEC/EN 60204-1 EN 60947-5-1 EN ISO 13849-1

Climatic stress EN 60068-2-78

Enclosure material Glass-fibre, reinforced thermoplastic

Material of the contacts, electrical AgSn0 + Au, self-cleaning, positive drive

Gross weight 500 g

General data - Features

Stop-Category 0

Wire breakage detection Yes

Short-circuit recognition Yes

Feedback circuit Yes

Automatic reset function Yes

Earth connection detection Yes

Integral System Diagnostics, status Yes

Number of auxiliary contacts 1

Number of LEDs 5

Number of safety contacts 3

Safety appraisal

Standards EN ISO 13849-1

IEC 61508

Mission Time 20 Year(s)

Common Cause Failure (CCF), minimum 65

Safety appraisal - Relay outputs

Performance level, stop 0, up to e

Category, Stop 0 4

Diagnostic Coverage (DC) Level, Stop 0 ≥ 99 %

PFH-Value Stop 0 2.00×10^{-8} /h

Safety Integrity Level (SIL), Stop 0, suitable for

applications in

Mechanical data

Mechanical life, minimum 10,000,000 Operations

Mounting Snaps onto standard DIN rail to EN 60715

Mechanical data - Connection technique

Terminal Connector Screw connection

rigid or flexible

Terminal designations IEC/EN 60947-1

Cable section, minimum 0.5 mm²

Cable section, maximum 2.5 mm²

Tightening torque of Clips 0.6 Nm

Mechanical data - Dimensions

Width 90 mm

Height 83 mm

Depth 127 mm

Ambient conditions

Degree of protection of the enclosure IP40

Degree of protection of the mounting space IP54

Degree of protection of clips or terminals IP20

Ambient temperature, minimum -25 °C

Ambient temperature, maximum +45 °C

Storage and transport temperature, minimum -40 °C

Storage and transport temperature, maximum +85 °C

Resistance to vibrations to EN 60068-2-6 10 ... 55 Hz, Amplitude 0.35 mm

Restistance to shock 30 g / 11 ms

Ambient conditions - Insulation value

Rated impulse withstand voltage U_{imp} 4 kV

Degree of pollution to IEC/EN 60664-1 2

Electrical data

Rated operating voltage 230 VAC -15% / + 10%

Rated AC voltage for controls, 50 Hz, minimum 195.5 VAC

Rated control voltage at AC 50 Hz, maximum 253 VAC

Rated AC voltage for controls, 60 Hz, minimum 195.5 VAC

Rated control voltage at AC 60 Hz, maximum 253 VAC

Electrical power consumption, maximum 4 W

Contact resistance, maximum 0.1Ω

Note (Contact resistance) in new state

Drop-out delay in case of "emergency stop",

maximum

15 ms

Pull-in delay at automatic start (after detecting

standstill), approx.

7,000 ms

Electrical data - Safe relay outputs

Voltage, Utilisation category AC15 230 VAC

Current, Utilisation category AC-15 6 A

Voltage, Utilisation category DC13 24 VDC

Current, Utilisation category DC13 6 A

Switching capacity, minimum 10 VDC

Switching capacity, minimum 10 mA

Switching capacity, maximum 250 VAC

Switching capacity, maximum 8 A

Electrical data - Digital inputs

Electrical data - Relay outputs (auxiliary contacts)

Switching capacity, maximum 24 VDC

Switching capacity, maximum 2 A

Electrical data - Electromagnetic compatibility (EMC)

EMC rating EMC-Directive

Status indication

Indicated operating states OUT, green: release

switching condition
UB: Supply voltage on
ERR: Error functional defect

Other data

Note (applications) safe standstill monitoring

Notes

Note (General) Inductive loads (e.g. contactors, relays, etc.) are to be suppressed

by means of a suitable circuit.

Circuit example

Note (Wiring diagram) OUT: Enabling safety contacts 13-14, 23-24 closed

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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