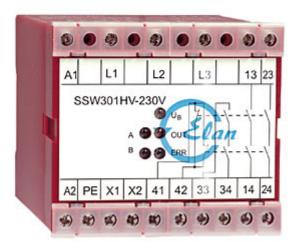
Datasheet - SSW 301HV-115V

Fail-safe standstill monitors / SSW 301HV





· 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 EN ISO 13849-1

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description

Article number

EAN Code

eCl@ss

SSW301HV-115V

101182592

4250116202607

27-37-19-01

Approval

Approval



Classification

Standards

PL

Control category

DC

CCF

PFH

- notice

SIL

Mission time

- notice

EN ISO 13849-1, IEC 61508, EN 60947-5-1

up e (STOP 0)

bis 4 (STOP 0)

99% (STOP 0)

> 65 points

≤ 2,0.0 x 10-8/h (STOP 0)

up to max. 36500 switching cycles/year and at max. 60% contact load $\,$

up 3 (STOP 0) 20 Years

The PFH value is applicable for the combinations listed in the table for contact load (K) (current through enabling paths) and switching cycle number (n-op/y).

In case of 365 operating days per year and a 24-hour operation, this results in the specified switching cycle times (t-cycle) for the relay contacts.

Diverging applications on request.

K	n-op/y	t-cycle
20 %	525.600	1,0 min
40 %	210.240	2,5 min
60 %	75.087	7,0 min
80 %	30.918	17,0 min
100 %	12.223	43,0 min

Global Properties

Permanent light SSW301HV

Standards IEC/EN 60204-1, EN 60947-5-1, EN ISO 13849-1, IEC 61508

Compliance with the Directives (Y/N) $\zeta \in$ Yes

Climatic stress FN 60068-2-78

Mounting snaps onto standard DIN rail to EN 60715

Terminal designations IEC/EN 60947-1

Materials

- Material of the housings Plastic, glass-fibre reinforced thermoplastic

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

Weight 500 Start conditions Automatic

Start input (Y/N) No Feedback circuit (Y/N) Yes Start-up test (Y/N) No Reset after disconnection of supply voltage (Y/N)

Automatic reset function (Y/N) Yes

Reset with edge detection (Y/N) No

Pull-in delay

- ON delay with automatic start typ. 7 s after detection of the standstill

Drop-out delay

- Drop-out delay in case of emergency stop < 15

Mechanical data

Connection type Screw connection

Cable section

- Min. Cable section 0,25 - Max. Cable section 2.5

Pre-wired cable rigid or flexible

Tightening torque for the terminals 0,6 Detachable terminals (Y/N) No

10.000.000 operations Mechanical life

Electrical lifetime Derating curve available on request

30 g / 11 ms restistance to shock

Resistance to vibration To EN 60068-2-6 10...55 HZ, Amplitude 0,35 mm

Ambient conditions

Ambient temperature

- Min. environmental temperature -25 - Max. environmental temperature +45

Storage and transport temperature

- Min. Storage and transport temperature -40

- Max. Storage and transport temperature +85

Protection class

- Protection class-Enclosure IP40 IP20

- Protection class-Terminals

- Protection class-Clearance IP54

Air clearances and creepage distances To IEC/EN 60664-1

- Rated impulse withstand voltage U_{imp}

Overvoltage categoryDegree of pollutionIII To VDE 01102 To VDE 0110

Electromagnetic compatibility (EMC)

EMC rating conforming to EMC Directive

4 kV

Electrical data

Rated DC voltage for controls

- Max. rated DC voltage for controls- Max. rated DC voltage for controls

Rated AC voltage for controls, 50 Hz

Min. rated AC voltage for controls, 50 Hz
 Max. rated AC voltage for controls, 50 Hz
 126.5

Rated AC voltage for controls, 60 Hz

Min. rated AC voltage for controls, 60 Hz
 Max. rated AC voltage for controls, 60 Hz
 126.5

Contact resistance \max . 100 m Ω Power consumption \max . 4 VA

Type of actuation AC

Rated operating voltage Ue 115 VAC -15% / +10%

Electronic protection (Y/N)

Fuse rating for the operating voltage Internal electronic trip 64 mA slow blow

Inputs

Monitored inputs

Outputs

Stop category 0
Number of safety contacts 3
Number of auxiliary contacts 1

Switching capacity

- Switching capacity of the safety contacts max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring)

min. 10 V / 10 mA

- Switching capacity of the auxiliary contacts 24 VDC, 2 A

Fuse rating

Protection of the safety contacts
 Fuse rating for the signaling/diagnostic outputs
 A slow blow

Fuse rating for the signaling/diagnostic outputs
 2 A slow blow
 Utilisation category
 AC-15: 230 V / 6 A;
 DC-13: 24 V / 6 A

Number of undelayed semi-conductor outputs with signaling function

Number of undelayed outputs with signaling function (with contact)	1
Number of delayed semi-conductor outputs with signaling function.	0
Number of delayed outputs with signalling function (with contact).	0
Number of secure undelayed semi-conductor outputs with signaling function	0
Number of secure, undelayed outputs with signaling function, with contact.	3
Number of secure, delayed semi-conductor outputs with signaling function	0
Number of secure, delayed outputs with signaling function (with contact).	0

LED switching conditions display

LED switching conditions display (Y/N)

Yes

Number of LED's

5

LED switching conditions display

- The integrated LEDs indicate the following operating states.
- UB: Supply voltage available
- B: Frequency at channel B
- A: Frequency at channel A
- OUT: Enabling safety contacts 13-14, 23-24 closed
- ERR: Error functional defect

Miscellaneous data

Applications



safe standstill monitoring

Dimensions

Dimensions

 - Width
 90 mm

 - Height
 83 mm

 - Depth
 127 mm

notice

Inductive loads (e.g. contactors, relays, etc.) are to be suppressed by means of a suitable circuit.

notice - Wiring example

The sensor-free standstill monitor checks the e.m.f. of the three phase motor.

To secure a guard door

The wiring diagram is shown with guard doors closed and in de-energised condition.

Ordering code

SSW 301HV-(1)

(1)

115V 115 VAC **230V** 230 VAC

Documents

Operating instructions and Declaration of conformity (it) 307 kB, 27.08.2018

Code: mrl_ssw_301hv_it

Operating instructions and Declaration of conformity (en) 306 kB, 18.07.2018

Code: mrl_ssw_301hv_en

Operating instructions and Declaration of conformity (pt) 312 kB, 27.08.2018

Code: mrl_ssw_301hv_pt

Operating instructions and Declaration of conformity (pl) 316 kB, 27.08.2018

Code: mrl_ssw_301hv_pl

Operating instructions and Declaration of conformity (es) 306 kB, 27.08.2018

Code: mrl_ssw_301hv_es

Operating instructions and Declaration of conformity (de) 275 kB, 18.07.2018

Code: mrl_ssw_301hv_de

Operating instructions and Declaration of conformity (fr) 309 kB, 27.08.2018

Code: mrl_ssw_301hv_fr

Operating instructions and Declaration of conformity (jp) 391 kB, 15.04.2014

Code: mrl_ssw_301hv_jp

Operating instructions and Declaration of conformity (nl) 305 kB, 27.08.2018

Code: mrl_ssw_301hv_nl

Wiring example (99) 18 kB, 20.08.2008

Code: kssw3l01

BG-test certificate (en) 741 kB, 19.07.2018

Code: z_sswp02

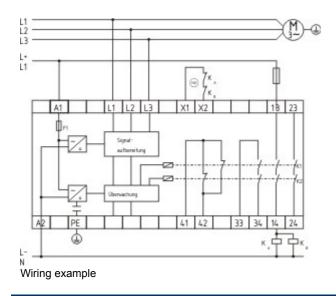
BG-test certificate (de) 744 kB, 19.07.2018

Code: z_sswp01

EAC certification (ru) 1 MB, 15.03.2018

Code: q_aesp01

Images



K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 13:01:18h Kasbase 3.3.0.F.64l