

Safety switch

Series Safety Hinge Switch SHS

Description SHS-A1Z-KR 1.2-180

Article number 6119261007



BERNSTEIN AG . Hans-Bernstein-Straße 1 . 32457 Porta Westfalica . www.bernstein.eu

Technical Data



Electrical Data		
Rated insulation voltage	U	250 V
Rated impulse withstand voltage	U	2,5 kV
Conv. thermal current	l _{the}	3 A
Rated operational voltage	Ue	230 V AC / 60 V DC
Utilization category		AC-15, 230 V AC / 1,5 A, DC-13, 60 V DC / 0,5 A
Direct opening action	\ominus	acc. to IEC/EN 60947-5-1, annex K
Short-circuit protective device		Fuse 4 A gG
Protection class		I

Mechanical data	
Enclosure	GD-Zn
Cover	GD-Zn
Wing	GD-Zn
Ambient air temperature	-25 °C to +70 °C (with permanently installed cable)
Contact type	1 Change-over
Mechanical life	1 x 10 ⁶ operating cycles
Switching frequency	max. 1200 switching operations / hour
Attachment	4 x M6 screws DIN 7984 or DIN 6912
Connection type	3x 0,5 mm2 (AWG 20); 1,2 m long; with conductor end sleeves minimum bending radius = 25 mm
Weight	\approx 0,4 kg +0,8 kg cable
Installation position	operator definable
Protection type	IP 67 in acc. with IEC/EN 60529
Switching angle	+/- 3 ° from fixing point (180°)
Direct opening angle	+/- 10 ° from fixing point (180°)
Direct opening torque	1,5 Nm
Mechanical load	F _{R1} = max. 1000 N
(see dimensioned drawing for the introduction direction of the forces)	F _{R2} = max. 500 N
	F _A = max. 750 N

ID for safety engineering	
B10d	2 x 10 ⁶ switching cycles

Standards	
	VDE 0660 T100, DIN EN 60947-1, IEC 60947-1
	VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1
	VDE 0113 T1, DIN EN 60204-1
	DIN EN ISO 13849-1

EU Conformity

acc. to directive 2006/42/EC

Approvals

CCC

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The technical datasheet corresponds to the technical state as of 2016-01-07 and will not be removed in case of changes.

Technical Data



Notes

At least two SHS hinge switches are required per protective installation! Confer max. load/stress.

The use and operation of SHS safety hinges at 70°C ambient temperature can accelerate supply cable aging! Protect the supply cable against mechanical influences and damage. We recommend installing cables in cable conduits or ducts.

Protect the supply cable against mechanical influences and damage. We recommend installing cables in cable conduits or ducts.

The manufacturer/supply of the machines/plants is obliged to duly observe the effective standards for determining the required safety margins between separative safety devices and points of risk or danger. These standards include, but are not limited to: EN 294, EN 349, EN 953, EN 1088.

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