SIEMENS

Data sheet 3SE5312-2SB12



Safety position switch with tumbler Locking force 2600 N 5 directions of approaches Solenoid-locked Magnet voltage 115 V AC Monitoring actuator 2 NC/1 NO Monitoring magnet 2 NC/1 NO LED display yellow/green Supplied without actuator. Actuator 3SE5000-0AV0. please order separately

product brand name	SIRIUS			
product designation	Mechanical safety switches			
design of the product	with separate actuator and with tumbler			
product type designation	3SE5			
manufacturer's article number of the optional actuators	3SE5000-0AV01 standard actuator, 3SE5000-0AV02 actuator with vertical fixing, 3SE5000-0AV03 actuator with transverse fixing, 3SE5000-0AV04 radius actuator, approach from left, 3SE5000-0AV05 universal actuator, 3SE5000-0AV06 radius actuator, approach from right, 3SE5000-0AV07 Heavy Duty actuator, 3SE5000-0AW42 actuator with vertical fixing, stainless steel socket, 3SE5000-0AW43 actuator with transverse fixing, stainless steel socket, 3SE5000-0AW51 stainless steel actuator, 3SE5000-0AW52 stainless steel actuator with vertical fixing, 3SE5000-0AW53 stainless steel actuator with transverse fixing			
suitability for use safety switch	Yes			
General technical data				
product function positive opening	Yes			
locking force	2 600 N			
according to EN ISO 14119	2 000 N			
insulation voltage rated value	250 V			
degree of pollution	class 3			
surge voltage resistance rated value	4 kV			
protection class IP	IP66/IP67			
shock resistance	30g / 11 ms			
according to IEC 60068-2-27	30g / 11 ms			
vibration resistance	0.35 mm / 5g			
according to IEC 60068-2-6	0.35 mm/5g			
mechanical service life (operating cycles) typical	1 000 000			
thermal current	10 A			
material of the enclosure of the switch head	metal			
reference code according to IEC 81346-2	В			
continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A			
continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A			
continuous current of the DIAZED fuse link gG	6 A; for a short-circuit current smaller than 400 A			
repeat accuracy	0.05 mm			
Substance Prohibitance (Date)	10/01/2011			
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8			
minimum actuating force in directions of actuation	30 N			
length of the sensor	185 mm			
width of the sensor	54 mm			
Ambient conditions				
ambient temperature				
during operation	-25 +60 °C			

during storage	-40 +80 °C			
explosion protection category for dust	none			
consumed active power of magnet coil	4.5 W			
operational current at AC-15				
at 24 V rated value	6 A			
at 120 V rated value	6 A			
at 240 V rated value	3 A			
operational current at DC-13				
at 24 V rated value	3 A			
at 125 V rated value	0.55 A			
at 250 V rated value	0.27 A			
Enclosure	0.2.7.			
design of the housing	special design			
material of the enclosure	metal			
coating of the enclosure	cathodic dip coating			
design of the housing according to standard	No			
Drive Head	110			
design of the actuating element	5 directions of approach			
design of the actualing element	positive opening			
number of directions of actuation	5			
circuit principle	slow-action contacts			
number of switching contacts safety-related	4			
cable entry type	3x (M20 x 1.5)			
locking mechanism design	magnetic field lock (open-circuit principle)			
Installation/ mounting/ dimensions	magnetic field lock (open-circuit principle)			
mounting position	any			
fastening method	any screw fixing			
Connections/ Terminals	Solew lixing			
type of electrical connection	screw-type terminals			
type of connectable conductor cross-sections	coron type terminale			
• solid	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)			
finely stranded with core end processing	1x (0.5 1.5 min-), 2x (0.5 0.75 min-) 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)			
• for AWG cables solid	1x (0.5 1.5 miir), 2x (0.5 0.75 miir) 1x (20 16), 2x (20 18)			
for AWG cables stranded	1x (20 16), 2x (20 16) 1x (20 16), 2x (20 18)			
Supply voltage	1X (20 10), 2X (20 10)			
type of voltage of the supply voltage of the optional LED display	AC			
supply voltage	7.0			
• of LED	115 V			
supply voltage of magnet coil	115 V			
design of the interface for safety-related communication	without			
Communication/ Protocol	minost			
design of the interface	without			
Safety related data	without			
B10 value with high demand rate according to SN 31920	1 000 000			
proportion of dangerous failures with high demand rate according to SN 31920	50 %			
Certificates/ approvals				
General Product Approval		Functional Safety/Safety of Ma-		
		chinery		



Confirmation







Type Examination Certificate

Declaration	of	Confor	mity
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other





Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5312-2SB12

Cax online generator

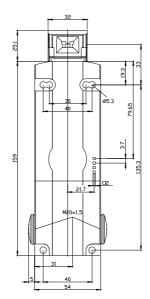
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5312-2SB12

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

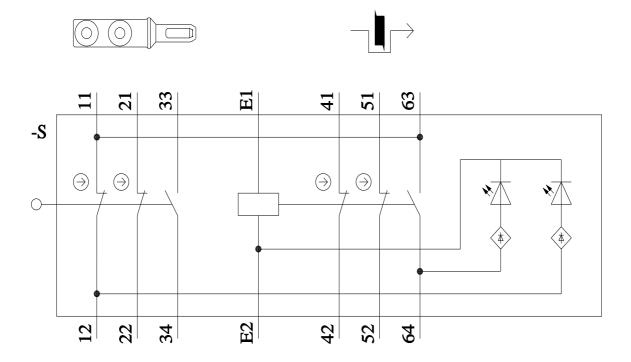
https://support.industry.siemens.com/cs/ww/en/ps/3SE5312-2SB12

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5312-2SB12&lang=en







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