SIEMENS

Data sheet 3SE5312-0SD12

SAFETY POSITION SWITCHES WITH SOLENOID INTERLOCKING LOCK. FORCE 2600N,5 APPR. DIR. METAL HOUSING,3X(M20X1.5) SPRING-LOCKED, AUXILIARY RELEASE ON FRONT MAGNET VOLTAGE 115V AC, MONITOR. OF ACTUATOR 2NC/1NO, MONITOR. OF MAGNET 2NC/1NO

Figure similar

Product designation	position switch with tumbler
Design of the product	with separate actuator and with tumbler
Manufacturer's article number	
• of the optional actuators	3SE5000-0AV01 standard actuator, 3SE5000-0AV02 actuator with vertical mounting, 3SE5000-0AV03 actuator with transverse mounting, 3SE5000-0AV04 radius actuator left, 3SE5000-0AV05 universal actuator, 3SE5000-0AV06 radius actuator right, 3SE5000-0AV07 heavy duty actuator

General technical data

Product function	
• positive opening	Yes
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
• acc. to IEC 60068-2-27	30 g / 11 ms

Vibration resistance	0.35 mm / 5g
• acc. to IEC 60068-2-6	0.35 mm/5g
Mechanical service life (switching cycles)	
• typical	1 000 000
Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical	1 000 000
Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026	6 000
Thermal current	6 A
Material of the enclosure of the switch head	metal
Equipment marking	
• acc. to DIN EN 61346-2	B
• acc. to DIN EN 81346-2	B
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
Locking force	2 600 N
• acc. to DIN EN ISO 14119	2 000 N
Repeat accuracy	0.05 mm
Minimum actuating force in activation direction	30 N
Operating current at AC-15	
• at 24 V rated value	6 A
• at 125 V rated value	3 A
• at 230 V rated value	1.5 A
Operating current at DC-13	
• at 24 V rated value	3 A
• at 125 V rated value	0.55 A
• at 230 V rated value	0.27 A

Enclosure

Design of the housing	special design
Material of the enclosure	metal
Coating of the enclosure	cathodic immersion coating
Design of the housing acc. to standard	No

Drive Head

Design of the operating mechanism	5 directions of approach
Design of the switching function	positive opening
Number of actuation directions	5

Connections/Terminals

Type of electrical connection	screw-type terminals
Type of connectable conductor cross-sections	

• solid	1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)
• finely stranded with core end processing	1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²)
• at AWG conductors solid	1x (20 ... 16), 2x (20 ... 18)
• at AWG conductors stranded	1x (20 ... 16), 2x (20 ... 18)

Mechanical data

Cable entry type	3 x (M20 x 1.5)
Locking mechanism design	spring-actuated lock (closed-circuit principle) with auxiliary release

Communication/ Protocol

Design of the interface	without

Ambient conditions

Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C

Supply voltage

Supply voltage of magnet coil	115 V

Installation/ mounting/ dimensions

Mounting position	any
Mounting type	screw fixing

Certificates/approvals

General Product Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
CCC	CSA	UL	EAC	Type Examination Certificate	EG-Konf.

Test Certificates	other
Special Test Certificate	Confirmation

Further information

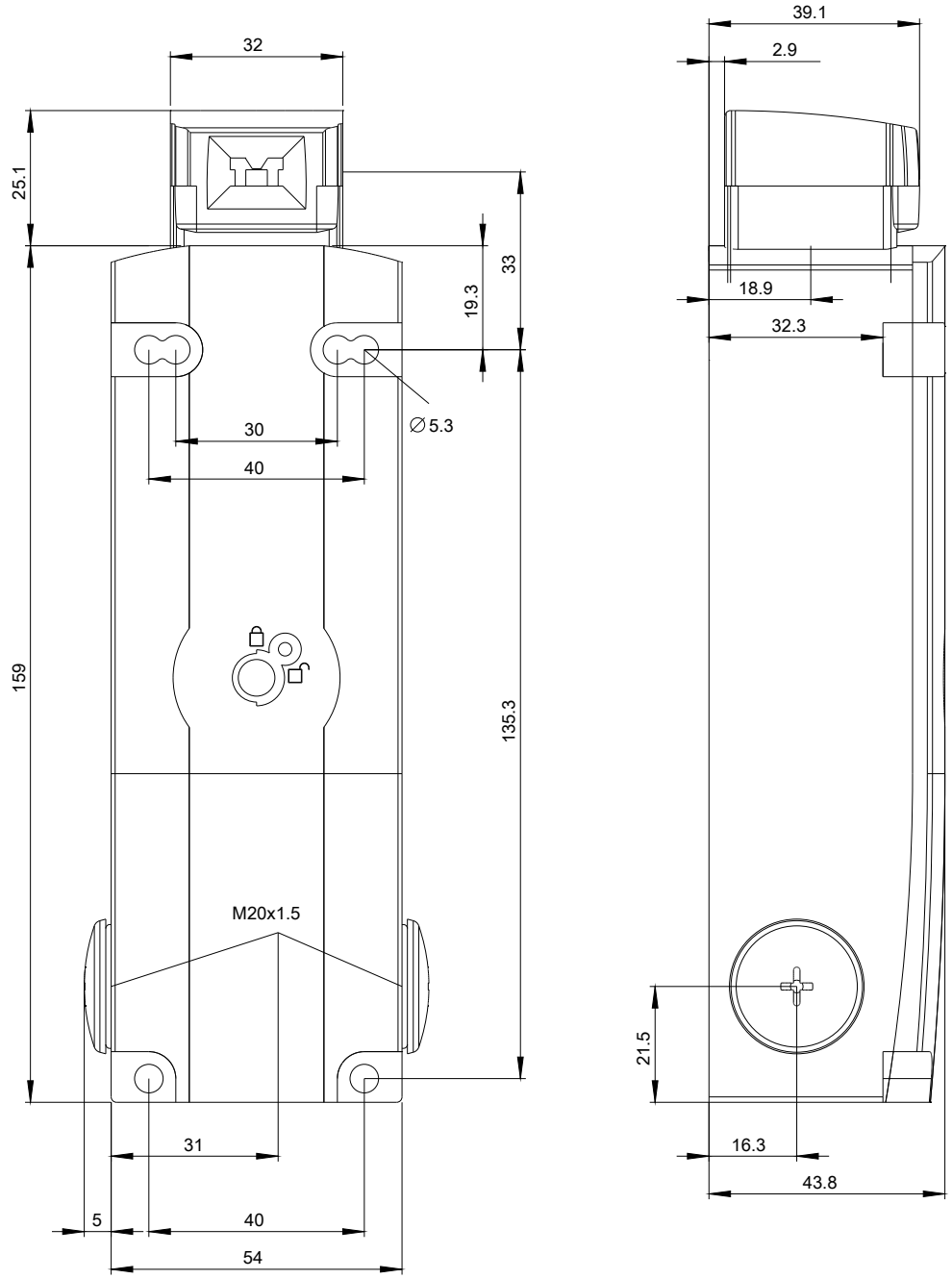
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

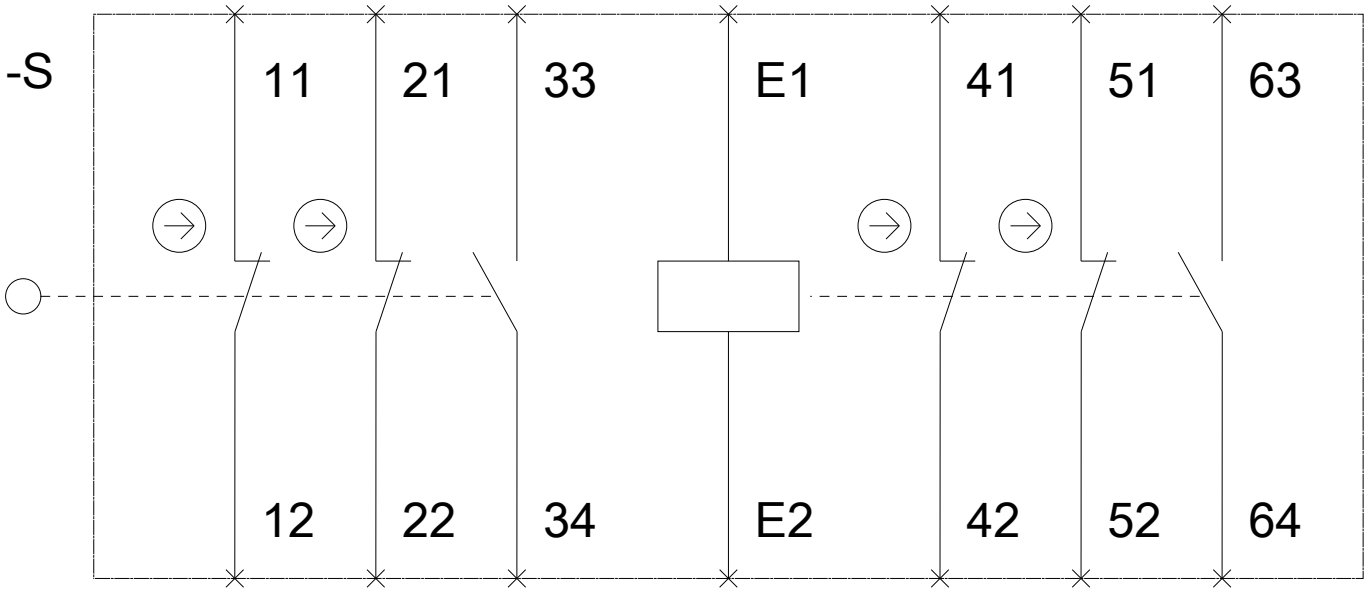
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5312-0SD12

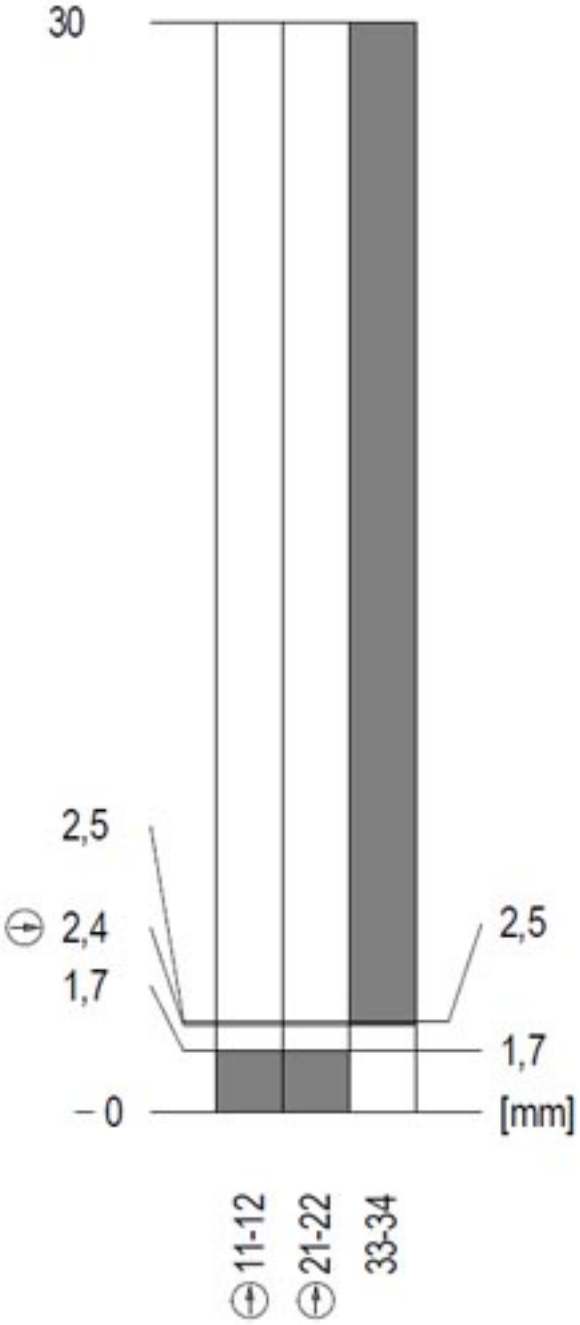
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5312-0SD12

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SE5312-0SD12

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5312-0SD12&lang=en







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