

Overview



	Position switches, standard					Compact design	Open-type
Enclosure							
Plastic	✓	✓	✓	--	--	--	✓
Metal	✓	--	✓	✓	✓	✓	--
Dimensions (W x H x D) in mm	31 x 68 x 33	50 x 53 x 33	40 x 78 x 38	56 x 78 x 38	56 x 100 x 38	30 x 50 x 16 40 x 50 x 16	30 x 48.5 x 20
Degree of protection	IP65, IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67	IP66/IP67	IP10
Standards							
IEC 60947-5-1	Mounting and operating points acc. to EN 50047	Operating points acc. to EN 50047	Mounting and operating points acc. to EN 50041	Operating points acc. to EN 50041	Operating points acc. to EN 50041	--	Mounting and operating points acc. to EN 50047
Approvals	CE, TÜV, UL, CSA, CCC					CE, UL, CSA, CCC	CE, TÜV, UL, CSA, CCC
Contact blocks							
2 slow-action contacts	1 NO + 1 NC; 2 NC		1 NO + 1 NC; 2 NC		2 x (1 NO + 1 NC) --		1 NO + 1 NC
2 snap-action contacts	1 NO + 1 NC		1 NO + 1 NC		2 x (1 NO + 1 NC) 1 NO + 1 NC		1 NO + 1 NC
• Short stroke	1 NO + 1 NC		✓		--		✓
• With 2 x 2 mm contact gap	1 NO + 1 NC		✓		--		✓
3 slow-action contacts	1 NO + 2 NC; 2 NO + 1 NC		1 NO + 2 NC; 2 NO + 1 NC		--		1 NO + 2 NC; 2 NO + 1 NC
• With make-before-break	1 NO + 2 NC		1 NO + 2 NC		2 x (1 NO + 2 NC) --		1 NO + 2 NC
3 snap-action contacts	1 NO + 2 NC		1 NO + 2 NC		--		1 NO + 2 NC
Special features							
LED status display	✓		✓		--	--	--
Increased corrosion protection	✓		✓		✓	--	--
ASIsafe integrated	✓		✓		--	--	--
Electrical specifications							
Insulation voltage U_i	400 V		400 V			400 V	400 V
Conventional thermal current I_{th}	6 A/10 A (3-/2-pole)		6 A/10 A (3-/2-pole)			6 A	6 A
Connections							
Cable entry	1 x M20 x 1.5	2 x M20 x 1.5	1 x M20 x 1.5	3 x M20 x 1.5	3 x M20 x 1.5	--	--
M12 plug, 4-, 5- or 8-pole	✓	✓	✓	✓	✓	✓	--
Plug, 6-pole + PE	--	--	✓	✓	--	--	--
Molded cables	--	--	--	--	--	✓	--
Actuators							
Rounded plungers and roller plungers	✓		✓		✓	--	--
Roller levers and angular roller levers	✓		✓		✓	--	--
Spring rod	✓		✓		--	--	--
Twist levers and rod actuators	✓		✓		✓	--	--
Fork lever	--		✓		--	--	--
Hinge switches	--		--		--	--	--
Plungers, twist levers	--		--		✓	✓	✓
Page							
Complete units	13/14, 13/28	13/24	13/20, 13/32	13/36	13/40	13/43	13/45
Modular system	13/18, 13/30	13/26	13/22, 13/34	13/38	13/41	--	--
Ambient temperature -40 °C	13/71, 13/74	13/74	13/77	13/80	13/81	--	--
ASIsafe	13/87, 13/89	13/87	13/91	13/91	--	--	--

✓ Available -- Not available



**3SE5232,
3SE5212,
3SF12.4**

**3SE5132,
3SE5112,
3SF11.4**

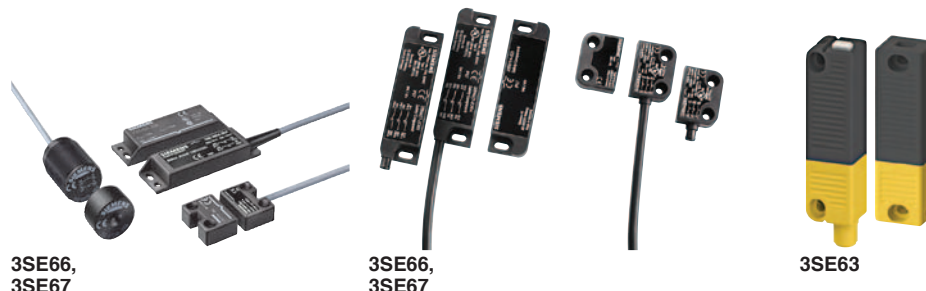
**3SE5232,
3SE5242,
3SF12.4**

**3SE5112,
3SE5122,
3SF11.4**

**3SE5322,
3SE5312,
3SF13.4**

	Safety hinge switches		Safety switches with separate actuator		Safety switches with tumbler
Enclosure					
Plastic	✓	✓	✓	✓	✓
Metal	✓	✓	✓	✓	✓
Dimensions (W x H x D) in mm	31 x 68 x 33	40 x 78 x 38	31 x 68 x 33, 50 x 53 x 33	40 x 78 x 38, 56 x 78 x 38	54 x 185 x 44
Degree of protection	IP65, IP66/IP67	IP66/IP67	IP65, IP66/IP67	IP66/IP67	IP66/IP67, IP69K
Standards					
IEC 60947-5-1	Mounting and operating points acc. to EN 50047	Mounting and operating points acc. to EN 50041	Mounting acc. to EN 50047	Mounting acc. to EN 50041	EN ISO 14119
Approvals	CE, TÜV, UL, CSA, CCC		CE, TÜV, UL, CSA, CCC		CE, TÜV, UL, CSA, CCC
Contact blocks/outputs					
2 slow-action contacts	--	--	1 NO + 1 NC; 2 NC	--	--
2 snap-action contacts	1 NO + 1 NC	--	--	--	--
• Short stroke	--	--	--	--	--
• With 2 x 2 mm contact gap	--	--	--	--	--
3 slow-action contacts	--	--	1 NO + 2 NC	--	2 x (1 NO + 2 NC)
• With make-before-break	--	--	--	--	--
3 snap-action contacts	1 NO + 2 NC	--	--	--	--
Electronic safety outputs	--	--	--	--	--
Special features					
LED status display	✓	--	✓	--	✓
Increased corrosion protection	✓	--	✓	--	✓
ASIsafe integrated	✓	--	✓	--	✓
Electrical specifications					
Insulation voltage U_i	400 V	--	400 V	--	400 V
Conventional thermal current I_{th}	6 A/10 A (3-/2-pole)	--	6 A	--	6 A
Connections					
Cable entry	1 x M20 x 1.5	1 x M20 x 1.5	1 x M20 x 1.5, 2 x M20 x 1.5	1 x M20 x 1.5, 3 x M20 x 1.5	3 x M20 x 1.5
M12 plug, 4-, 5- or 8-pole	✓	--	✓	✓	✓
Molded cables	--	--	--	--	--
AS-Interface	--	--	✓	✓	✓
Actuators					
Plungers, twist levers	--	--	--	--	--
Separate actuators	--	--	✓	✓	✓
Hinge switches	✓	--	--	--	--
Page					
Complete units	13/67	13/67	13/51, 13/54	13/52, 13/55	13/61, 13/63
Modular system	—	—	—	—	—
ASIsafe	13/73	—	13/83	—	13/84
ATEX	13/100	13/101	13/94	13/95	13/98, 13/99

✓ Available
-- Not available



**3SE66,
3SE67**

**3SE66,
3SE67**

3SE63

	Safety switches, solenoid	Safety switches, solenoid supplementary range in new design ¹⁾	RFID safety switches ¹⁾
Enclosure			
Plastic	✓	✓	✓
Metal	--	--	--
Dimensions (W x H x D) in mm	M30; 25 x 88; 25 x 33	25 x 88; 26 x 36	25 x 91 x 22
Degree of protection	IP67	IP67	IP69K
Standards	IEC 60947-5-3 Category 4 acc. to ISO 13849-1, PL e acc. to ISO 13849-1, SIL 3 acc. to IEC 61508	IEC 60947-5-3	Category 4 acc. to ISO 13849-1, PL e acc. to ISO 13849-1, SIL 3 acc. to IEC 61508
Approvals	CE, TÜV, UL, CSA, CCC	CE, TÜV, UL, CSA	CE, TÜV, UL, CSA
Contact blocks/outputs			
Reed contacts	1 NO + 1 NC 2 NC 1 NO + 1 NC (+ 1 NC signaling contact)	1 NO + 1 NC (+ 1 NC signaling contact) 2 NC 2 NC (+ 1 NC signaling contact)	--
Special features			
LED status display	--	✓	✓
Increased corrosion protection	--	--	✓
ASIsafe integrated	--	--	--
Electrical specifications			
Insulation voltage U_i	100 V AC/DC 24 V DC	75 V DC 50 V AC	--
Conventional thermal current I_{th}	250 mA 400 mA	250 mA	--
Connections			
M8 plug, 4-pole	✓	✓	--
8 mm Ø, latching connection, plug, 6-pole	--	✓	--
M12 plug, 4-pole	✓	--	✓
Molded cables	✓	✓	--
AS-Interface	--	--	--
Actuators			
RFID	--	--	✓
Switching magnet	✓	✓	--
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✓ Available

-- Not available

¹⁾ CCC not required for voltages < 36 V.

Overview

More information

Homepage, see www.usa.siemens.com/limit-switches
 Industry Mall, see www.siemens.com/product?3SE
 Configurator, see www.siemens.com/sirius/configurators
 System Manual, see <https://support.industry.siemens.com/cs/ww/en/view/43920150>
 Conversion tool, see www.siemens.com/sirius/conversion-tool

The innovative SIRIUS 3SE5 position switches are modern in design, compact, modular and simple to connect. They save time and increase flexibility during installation of a whole range of switch variants. In principle it is possible to combine any enclosure with any operating mechanism, paying due consideration to the EN 50041 and EN 50047 standards where necessary.

Complete units

Popular versions of the position switches in standard enclosures are available as complete units.



3SE5 position switches with plastic and metal enclosures

Modular system

The 3SE5 series is the modular system comprising different sizes of the basic switch and an actuator which must be ordered separately. Thanks to the modular design of the switch the user can select the right solution for his application from numerous versions and install it himself in a very short time.

Simple plug-in mounting enables fast replacement of the actuator heads.



Examples of selection options in the modular system

Design

All enclosure variants have an integrated chlorinated rubber diaphragm for high functional safety in cold and aggressive environments.

Enclosure sizes

The 3SE5 switches are available in five different enclosure sizes with 2 or 3 contacts and with the XL enclosure:

- Plastic enclosures according to EN 50047, 31 mm wide, IP65, 1 cable entry
- Metal enclosures according to EN 50047, 31 mm wide, IP66/IP67, 1 cable entry
- Plastic and metal enclosures according to EN 50041, 40 mm wide, IP66/IP67, 1 cable entry
- Plastic enclosures, 50 mm wide, IP66/IP67, 2 cable entries
- Metal enclosures, 56 mm wide, IP66/IP67, 3 cable entries
- XL metal enclosures with 4 to 6 contacts, 56 mm wide, IP66/IP67, 3 cable entries

Enclosure versions

Various basic switches can be selected for the enclosures of the 3SE5 series:

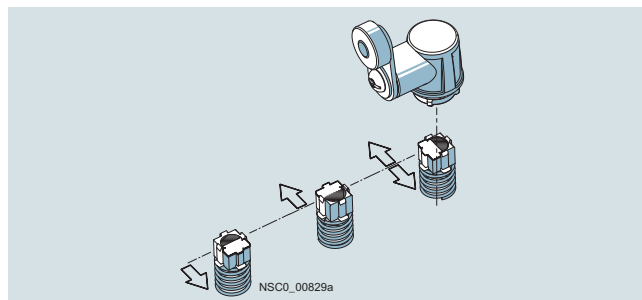
- With contact blocks with two or three contacts (screw terminals) designed as slow-action or snap-action contacts; the slow-action contacts also with make-before-break
- Optional LED status display
- With mounted 4- or 5-pole M12 device plug (available for the wide enclosures as an accessory for self-assembly)
- With 6-pole device plug + PE on the metal enclosures
- Versions with increased corrosion protection
- Versions for operating temperatures down to -40 °C
- AS-Interface version with integrated ASIsafe electronics for all enclosure designs (see page 13/85).

Actuator variants

All operating mechanisms can be rotated around the axis in increments of 22.5°. The following actuator variants are available:

- Plain, rounded and roller plungers
- Roller levers and angular roller levers
- Spring rod
- Twist levers and rod actuators with twist actuator
- Fork levers with twist actuator

The actuator rollers are available with various materials and diameters.



Twist actuator for twist levers and rod levers, with setting of switching direction to right, left or right/left (standard for all twist actuators except fork levers)

General data

Cover design

The mechanical position switches have a turquoise cover and the mechanical safety switches have a yellow cover.



On request the switches can be delivered ex works with a yellow cover. The cover has no effect on the mode of operation. Both versions can be used in safety applications, (see also page 13/16).

Diverse contact types

Exchangeable two- and three-pole contact blocks for all enclosure sizes



The three-pole contact block with snap-action or slow-action contacts is regularly available for all enclosure forms. The same installation space is required as for a two-pole block. The version with 1 NO + 2 NC offers, for example, more safety through redundant shutdowns (2 NC contacts) with simultaneous signaling (NO contact). The three-pole blocks are also available with make-before-break and with 2 NO + 1 NC.

Contact reliability

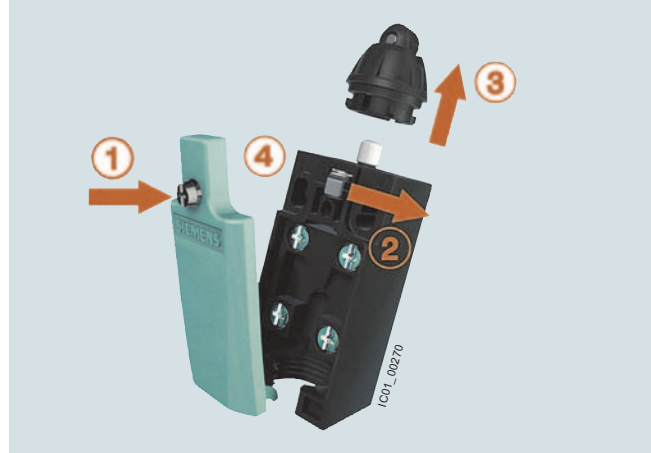
The contact blocks ensure an extremely high contact stability. This applies even when the devices are switching low voltages and currents, e.g. 1 mA at 5 V DC.

Positive opening ➔

The NC contacts of the switch are forced open mechanically, positively-driven and reliably by the plunger. This is referred to as "positive opening".

Mounting

Easy plug-in method for fast replacement of the actuator heads



Open the cover (1)
Actuate the locking lever (2)
Replace the head (turnable by 16 x 22.5°) (3)
Lock and close the cover (4)

Quick-connect technology

For plastic enclosure with a width of 31 mm



These position switches can be wired quickly and easily as an added customer benefit. The connecting cable is first connected to the terminals of the contact block and then guided through a slit into the cable gland opening. The time saved through this new connection method is approx. 20 to 25%.

A cable gland with seal must be used with the quick-connect method.

Optional LED indicators

LED indicators are available for all enclosure sizes except for XL. The enclosures are supplied with an LED signaling indicator (1 x green + 1 x yellow). This is the first time that optical signaling equipment is also available for small standard enclosures according to EN 50047. The LEDs are implemented in 24 V DC and 230 V AC.

General data

Article No. scheme

Product versions		Article number												
SIRIUS position and safety switches		3	S	E	□	□	□	□	-	□	□	□	□	□
Series		5												
Standard	EN 50041 EN 50047 with tumbler	1	2	3										
Enclosure material and width	e.g. 1 = metal, narrow				□									
Connection	Cable entry, device plug					2	4/5							
LEDs	None 24 V DC 115 V AC 230 V AC									0	1	2	3	
Version of contacts	e.g. C = snap-action 1 NO + 1 NC										□			
Version of operating mechanism	e.g. C02 = rounded plunger											□	□	□
Example		3	S	E	5	1	1	2	-	0	C	C	0	2

Note:

The Article No. scheme shows an overview of product versions for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the selection and ordering data.

Benefits

The 3SE5 position switches differ from the previous series through the following new characteristics:

- The modular design of the product range allows a number of versions with a smaller number of bearing types for enclosures and operating mechanisms.
- All actuators can be turned around the axis in increments of 22.5° (see picture, page 13/8).
- Rounded and roller plungers according to EN 50041 with 3 mm overtravel (total travel 9 mm) for greater tolerance when switching.
- All enclosure sizes – now also including the small enclosure 31 mm wide – are optionally available with an LED signaling indicator (see picture, page 13/8).
- All enclosure variants have an integrated chlorinated rubber diaphragm for high functional safety in cold and aggressive environments.
- All contact blocks are replaceable (see page 13/47).

- The three-pole contact blocks are available for all enclosure sizes (see picture, page 13/8).
- Elements with 1 NO + 2 NC slow-action contacts with make-before-break and 2 NO + 1 NC.
- The short-stroke contact block 1 NO + 1 NC improves the precision of the switching operation through a reduced actuation path.
- The contact block with 1 NO + 1 NC snap-action contacts with 2 x 2 mm contact opening is suitable for simultaneous shutdown and signaling, particularly in the elevator industry.
- XL metal enclosures for accommodating two 2- or 3-pole contact blocks.
- The plastic enclosure with a width of 31 mm has simple and fast wiring equipment which makes it possible to save approx. 20 to 25% of the time when connecting (see picture, page 13/8).

Application

With the standard position switches, mechanical positions of moving machine parts are converted into electrical signals. Through their modular and uniform design and large number of variants, the devices can comply with practically all requirements in industry.

Devices are available with enclosure versions to suit the particular ambient conditions. Different control tasks can be performed with the contact blocks best suited for the particular purpose. And many different actuator variants are available to match the mechanical configuration of the moving machine parts. Dimensions, fixing points and characteristics are largely in accordance with the EN 50041 or EN 50047 standards.

The devices are suitable for use in any climate.

Standards

IEC/EN 60947-5-1

The protective measure of "total insulation" by the molded-plastic enclosure is ensured by the use of molded-plastic screw glands.

Safety position switches

For controls according to IEC/EN 60204-1, the devices can be used as a safety position switch. They comply with the standard EN ISO 14119. A TÜV certificate is available. To secure position switches against changes in their position, keyed techniques must be employed on installation.

Safety circuits

The IEC/EN 60947-5-1 standard requires positive opening of the NC contacts. In other words, for the purposes of personal safety, the assured opening of NC contacts is expressly stipulated for the electrical equipment of machines in all safety circuits and marked in accordance with the standard IEC 60947-5-1 with the symbol ☹.

Category 2 according to EN ISO 13849-1 can be attained with 3SE5 position switches with ☹, and category 3 or 4 when using an additional position switch, if the corresponding fail-safe evaluation units are selected and correctly connected. Example: 3SK or 3TK28 safety relays or the corresponding devices from the ASIsafe, SIMATIC or SINUMERIK programs. The operating mechanisms (actuators) must also be connected to the enclosure by keyed techniques. The corresponding operating mechanisms are marked in the catalog with ☹.

General data

Contacts for every application

- Snap-action contacts: NC and NO contacts switch simultaneously – regardless of the actuating speed ($v_{min} = 0.01$ m/s) and contact erosion.
- Slow-action contacts: Difference in travel between "NC contact opens" and "NO contact closes"; the switching speed is the same as or proportional to the actuating speed ($v_{min} = 0.4$ m/s).
- Slow-action contacts with make-before-break: e.g. suitable for adding a second function to a sequence control.

Operating mechanisms for every application

Standard, rounded and roller plungers

- Operation in direction of the plunger axis or in case of roller plunger with bar at right angles to the plunger axis.
- The roller plunger is recommended for lateral actuation and relatively long overtravel.

Roller levers and angular roller levers

- For actuators made of finely ground steel in the form of cams, straight-edges (approach angle 30°) or cam disks.

Spring rod

- Can be used for undefined actuations and changing starting conditions
- Starting from any direction is possible

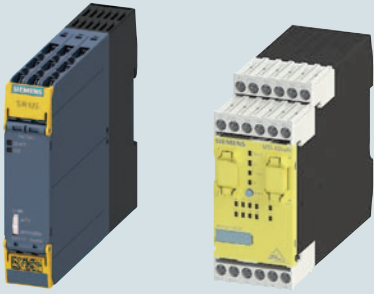





Twist levers and rod actuators

- For high starting speeds ($v = 1.5$ m/s)
- Variety of starting options
- Insensitive to oil, grinding dust and coarse-grained material
- Adjustment of the lever in increments of 10°
- Can be adjusted with left or right switching

Fork lever

- Switchable in two directions
- Latching actuator
- For reciprocating movements

Monitoring with fail-safe evaluation units from the 3SK and 3RK3 series

Safe evaluation units	Maximum achievable safety level according to type of switch				
	Compact	Standard	Hinge	Separate actuator	Tumbler
 <p>3SK 3RK3</p>	 <p>3SE54</p>	 <p>3SE51/3SE52</p>	 <p>3SE51/3SE52</p>	 <p>3SE51/3SE52</p>	 <p>3SE53</p>
Use of only one position/safety switch					
Monitoring with 1 contact: 1 x NC contact	SIL 1 / PL c				
Monitoring with 2 contacts: 2 x NC contact or 1 x NC contact + 1 x NO contact	SIL 1 / PL c	SIL 2 / PL d			
Use of a second position/safety switch					
Standard switch	3SE51/3SE52				
Safety switch/hinge switch	3SE51/3SE52				
Safety switch with separate actuator	3SE51/3SE52				
Safety switch with tumbler	3SE53				
SIL 3 / PL e					

Note:

Taking account of certain fault exclusions (e.g. actuator breakage), use of just one hinge switch or a switch with separate actuator with or without tumbler up to SIL 2 or PL d is possible as described in the table.

Since the machine manufacturer must provide proof of fault exclusion, the component manufacturer is unable to carry out a definitive assessment of the measures taken.

For more information, see <https://support.industry.siemens.com/cs/ww/en/view/35443942>.

The maximum achievable SIL or PL always depends on other assumptions as well. Factors to be taken into account include the DC (declaration), the CCF, and the number of actuations.

For information on the safe evaluation units and an introduction to safety systems, see page 13/133 onwards.

Technical specifications

Type	3SE51.. ¹⁾ , 3SE52.. ¹⁾		3SE541.	3SE542.
General data				
Standards	IEC/EN 60947-5-1, EN ISO 14119			
Rated insulation voltage U_i	V	400 ²⁾	400	
Degree of pollution according to IEC 60664-1		Class 3	Class 3	
Rated impulse withstand voltage U_{imp}	kV	6	4	
Rated operational voltage U_e	V	400 AC; over 300 V AC same potential only ³⁾	300 AC	
Conventional thermal current I_{th}	A	10	10	
Rated operational current I_e				
• For alternating current 50/60 Hz		I_e / AC-15	I_e / AC-15	
- At 24 V	A	6	6	
- At 120 V	A	6	6	
- At 240 V	A	6	3	
- At 400 V	A	4	--	
• For direct current		I_e / DC-13	I_e / DC-13	
- At 24 V	A	3	3	
- At 125 V	A	0.55	0.55	
- At 250 V	A	0.27	0.27	
- At 400 V	A	0.12	--	
Short-circuit protection⁴⁾				
• With DIAZED fuse links, utilization category gG	A	6	10	
• With miniature circuit breaker, C char. ($I_{K < 400A}$)	A	1	3	
Mechanical endurance				
• Basic switch		15 × 10 ⁶ operating cycles	10 × 10 ⁶ operating cycles	10 × 10 ⁶ operating cycles
• With spring rod, 3SE5...-..R..		10 × 10 ⁶ operating cycles	--	--
• With fork lever, 3SE51...-..T..		1 × 10 ⁶ operating cycles	--	--
Electrical endurance				
• With 3RH.1, 3RT contactors in size S00, S0		10 × 10 ⁶ operating cycles	500 000 operating cycles	500 000 operating cycles
• For utilization category AC-15 when switching off I_e / AC-15 at 240 V		100 000 operating cycles	100 000 operating cycles	100 000 operating cycles
• With utilization category DC-12/DC-13		For direct current depending on the loading of the switch		
Switching frequency				
With 3RH.1, 3RT contactors in size S00, S0		6 000 operating cycles/h	1 800 operating cycles/h	
Switching accuracy				
• For repeated switching, measured at the plunger of the contact block	mm	0.05	0.05	
• With twist actuators		1°	1°	
Rated data according to \mathcal{E}, \mathcal{Q} and \mathcal{N}				
• Rated voltage	V	300	300	
• Uninterrupted current	A	6	10	
• Switching capacity		Heavy duty, A 300/B 300/Q 300	A 300/Q 300	

1) Special versions, see data sheet.

2) For slow-action contacts 1 NO + 2 NC with make-before-break ("M") and 2 NO + 1 NC ("P") the following applies: 250 V.

3) For slow-action contacts 1 NO + 2 NC with make-before-break ("M") and 2 NO + 1 NC ("P") the following applies: Over 250 V AC same potential only.

4) Without any welds according to IEC 60947-5-1.

Type	3SE523.	3SE513.	3SE524.	3SE521.	3SE511.	3SE512., 3SE516.	3SE54..	3SE525.
Enclosure								
• Material	Plastic P66			Zinc die-casting			Zn/Al	--
• Width	mm	31	40	50	31	40	56	30
Degree of protection acc. to IEC 60529		IP65	IP66/IP67 ¹⁾				IP67	IP10
Ambient temperature								
• During operation	°C	-25 ... +85; -40...+85 for 3SE5*-1AJ0 and 3SE5*-1AY0 versions					-25 ... +85	-25 ... +85
• In operation, switch with LEDs	°C	-25 ... +60					--	--
• Storage, transport	°C	-40 ... +90					-40 ... +90	-40 ... +90
Mounting position		Any						
Connection								
Cable entry		1 x (M20 x 1.5)	2 x (M20 x 1.5)	1 x (M20 x 1.5)	3 x (M20 x 1.5)	--	--	
Conductor cross-sections								
• Solid	mm ²	1 x (0.5 ... 1.5), 2 x (0.5 ... 0.75)						
• Finely stranded with end sleeve	mm ²	1 x (0.5 ... 1.5), 2 x (0.5 ... 0.75)						
• AWG cables, solid or stranded	AWG	1 x (AWG 20 ... 16), 2 x (AWG 20 ... 18)						
Tightening torque , contact block	Nm	0.8 ... 1.0						
Protective conductor connection inside enclosure		--			M3.5		--	--

1) For actuator heads with spring rod and rod actuators: IP65/IP67.

SIRIUS 3SE5 Mechanical Position Switches

3SE5, Metal Enclosures

Enclosure width 40 mm according to EN 50041







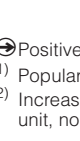
Selection and ordering data

Complete units

2 or 3 contacts · Degree of protection IP66/IP67 · Cable entry M20 × 1.5

Version	Contacts	LEDs	SD	Complete units	PU (UNIT, SET, M)	PS*
			d	Article No.	Price per PU	

Complete units¹⁾ · Enclosure width 40 mm

 3SE5112-0BB01	Plain plungers					
	With high-grade steel plunger					
	Slow-action contacts	1 NO + 1 NC --	⊕ 2	3SE5112-0BB01		1 1 unit
	Snap-action contacts	1 NO + 1 NC --	⊕ 2	3SE5112-0CB01		1 1 unit
 3SE5112-0BC02	Rounded plungers, type B, acc. to EN 50041					
	With high-grade steel plungers, with 3 mm overtravel					
	Slow-action contacts	1 NO + 1 NC --	⊕ 5	3SE5112-0BC02		1 1 unit
	Snap-action contacts	1 NO + 1 NC --	⊕ ▶	3SE5112-0CC02		1 1 unit
 3SE5112-0BD02	Roller plungers, type C, acc. to EN 50041					
	With high-grade steel roller 13 mm, with 3 mm overtravel					
	Slow-action contacts	1 NO + 1 NC --	⊕ 5	3SE5112-0BD02		1 1 unit
	Snap-action contacts	1 NO + 1 NC --	⊕ ▶	3SE5112-0CD02		1 1 unit
	Snap-action contacts ²⁾	1 NO + 1 NC --	⊕ 5	3SE5112-0CD02-1AA7		1 1 unit
	Slow-action contacts	1 NO + 2 NC --	⊕ 5	3SE5112-0KD02		1 1 unit
	Snap-action contacts	1 NO + 2 NC --	⊕ 5	3SE5112-0LD02		1 1 unit
	Snap-action contacts ²⁾	1 NO + 2 NC --	⊕ 5	3SE5112-0LD02-1AA7		1 1 unit
	Slow-action contacts ²⁾	2 NO + 1 NC --	⊕ 5	3SE5112-0PD02-1AA7		1 1 unit
	With M12 device plug, 5-pole (125 V, 4 A)					
Snap-action contacts with 2 LEDs	1 NO + 1 NC 24 V DC	⊕ 5	3SE5114-1CD02-1AF3		1 1 unit	
Snap-action contacts with 2 LEDs NEW	1 NO + 1 NC 24 V DC	⊕ 5	3SE5114-1CD02-1AF5		1 1 unit	
Snap-action contacts without LED	1 NO + 1 NC 24 V DC	⊕ 5	3SE5114-0CD02-1AC5		1 1 unit	
Snap-action contacts without LED ²⁾³⁾	1 NO + 1 NC 24 V DC	⊕ 5	3SE5114-0CD02-1AL0		1 1 unit	
With M12 device plug, 5-pole (125 V, 4 A), with pin assignment as for SIMATIC ET 200³⁾						
Snap-action contacts without LED NEW	1 NO + 2 NC 24 V DC	⊕ X	3SE5114-0LD02-1AE3		1 1 unit	
 3SE5112-0BE01	Roller levers					
	With metal lever and plastic roller 22 mm					
	Slow-action contacts	1 NO + 1 NC --	⊕ 5	3SE5112-0BE01		1 1 unit
	Snap-action contacts	1 NO + 1 NC --	⊕ ▶	3SE5112-0CE01		1 1 unit
 3SE5112-0BF01	Angular roller lever					
	With metal lever and plastic roller 22 mm					
	Slow-action contacts	1 NO + 2 NC --	⊕ 5	3SE5112-0KE01		1 1 unit
	Snap-action contacts	1 NO + 2 NC --	⊕ 5	3SE5112-0LE01		1 1 unit
 3SE5112-0CF01	Spring rod					
	Length 142.5 mm, with plastic plunger 50 mm					
	Slow-action contacts	1 NO + 1 NC --	⊕ 5	3SE5112-0BF01		1 1 unit
	Snap-action contacts	1 NO + 1 NC --	⊕ 2	3SE5112-0CF01		1 1 unit
 3SE5112-0CR01	Spring rod					
	Length 142.5 mm, with plastic plunger 50 mm					
Snap-action contacts	1 NO + 1 NC --	▶	3SE5112-0CR01		1 1 unit	

⊕ Positive opening according to IEC 60947-5-1, Appendix K.

¹⁾ Popular versions.

²⁾ Increased operation or restoring force 30 N; only available as complete unit, no modular design

³⁾ The 3SE5114-.....-1AE3 position switches, prewired with an M12 plug, 5-pole, have the same pin assignment as all compact block I/O modules with a PROFINET connection in the SIMATIC ET 200eco PN, ET 200eco PN-F and ET 200AL series with IP65/IP67 degree of protection for cabinet-free installation directly at the machine.