## **SIEMENS**

## **Data sheet**



key-operated switch Siemens, 22 mm, round, plastic with metal front ring, lock number SSG10, with 2 keys, 3 switch positions I-O<II, left latching, momentary contact type on the right, actuating angle  $2x45^\circ$ , 10:30h/12h/13:30h, key removal O+I, with laser labeling, upper case and lower case, always upper case at the beginning of the word

product designation design of the product Actualing/signaling element product type designation product tine manufacturer's article number of included key  ### Actuator  principle of operation of the actuating element product extension optional light source of the actuating element product extension optional light source of the actuating element material of the actuating element material of the actuating element which is a ctuating element product extension optional light source  #### Actuator  ### Actuato	product brand name	SIRIUS ACT	
design of the product product type designation 3SU1 product tine Plastic with metal front ring, matt, 22 mm manufacturer's article number of included key 3SU1950-0FP80-0AA0  Actuator  Principle of operation of the actuating element latching promentary contact, 2x45* (10:30 h/12 h/13:30 h), return from right, left latching product extension optional light source color of the actuating element silver material of the actuating element Metal actuating element Metal of the actuating element Metal Metal of the actuating element Metal of the actuating element Metal Metal of the actuating element Metal	product designation	Key-operated switches	
product type designation product tine Plastic with metal front ring, matt, 22 mm manufacturer's article number of included key 3SU1950-0FP80-0AAQ  Actuator  Principle of operation of the actuating element latching momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching or of the actuating element sliver metal for the actuating element shape of the actuating element key cuter diameter of the actuating element key outer diameter of the actuating element Any inscription, text in upper/lower case, all words begin with upper case letters number of switching positions 3 switching positions 3 switch position for key distraction O+1 actuating angle clockwise 45° lock make Siemens  key number SSG10  Front ring  Product component front ring Yes design of the front ring Standard material of the front ring sand gray  Concral technical data  Protection class IP Poffic IPF6, IPF7, IPF6,	design of the product	Actuating/signaling element	
product line Plastic with metal front ring, matt, 22 mm manufacturer's article number of included key 3SU1950-0FP80-0AAO Actuator Principle of operation of the actuating element latching/momentary contact, 2x45" (10:30 h/12 h/13:30 h), return from right, left latching product extension optional light source No of the actuating element sliver material of the actuating element metal shape of the actuating element Key outer diameter of the actuating element Any inscription, text in upper/lower case, all words begin with upper case letters number of switching positions 3 switch position for key distraction O+I actuating angle clockwise 45° anticlockwise 45° oanticlockwise 4			
manufacturer's article number of included key Actuator  principle of operation of the actuating element product extension optional light source of the actuating element material of the actuating element material of the actuating element silver material of the actuating element support the actuating element Any inscription, text in upper/lower case, all words begin with upper case letters number of switching positions actuating angle clockwise clockwise clockwise support the actuating element actuating angle clockwise support to actuating element actuating angle clockwise support to actuating element actuating angle clockwise support the actuating element actuating angle clockwise support the actuating element actuating angle clockwise support the actuating element actuating angle actuating angle clockwise support the actuating all actuating all actuating angle actuating angle clockwise support the actuating all actuating all actuating angle actuating a	product line	Plastic with metal front ring, matt, 22 mm	
Actuator  principle of operation of the actuating element latching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching product extension optional light source No  of the actuating element silver material of the actuating element Metal shape of the actuating element Metal shape of the actuating element Any inscription, text in upper/lower case, all words begin with upper case letters number of switching positions 3 switch position for key distraction O+I actuating angle clockwise 45° anticlockwise 45° anticlockwise 45° anticlockwise 45° anticlockwise Siemens key number SSG10  Front ring  product component front ring Yes design of the front ring Metal, matt color of the front ring sand gray  General technical data  protection class IP of the terminal IP20 degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 Category 1, Class B  operating frequency maximum 18000 110	•		
product extension optional light source  color  of the actuating element material of the actuating element marking of the actuating element  4.09.5 mm  Any inscription, text in upper/lower case, all words begin with upper case letters number of switching positions  3.  Whe actuating angle of clockwise  4.5°  4.0°			
color	principle of operation of the actuating element		
of the actuating element metal shape of the actuating element Key outer diameter of the actuating element Any inscription, text in upper/lower case, all words begin with upper case letters number of switching positions 3 switch position for key distraction O+I actuating angle clockwise 45° anticlockwise 45° anticlockwise 45° iock make Siemens key number Sog10  Front ring Yes design of the front ring Metal, matt socior of the front ring Metal matt socior of the terminal Metal matt socior of the front ring material of the front ring ma	product extension optional light source	No	
material of the actuating element shape of the actuating element shape of the actuating element 29.5 mm marking of the actuating element Any inscription, text in upper/lower case, all words begin with upper case letters number of switching positions 3 switch position for key distraction O+I  actuating angle e clockwise A5° anticlockwise A5° lock make Siemens key number SSG10  Front ring  product component front ring Adesign of the front ring Metal, matt color of the front ring sand gray  General technical data  protection class IP of the terminal Agency for protection NEMA rating shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 Oerating frequency maximum Any inscription, text in upper/lower case, all words begin with upper case letters  Rey Any inscription, text in upper/lower case, all words begin with upper case letters  Any inscription, text in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A yi in upper/lower case, all words begin with upper case letters  A to clock wise a vision per letters  A to yie a vision per letters  A to yie a	color		
shape of the actuating element  outer diameter of the actuating element  marking of the actuating element  Any inscription, text in upper/lower case, all words begin with upper case letters number of switching positions  switch position for key distraction  outline actuating angle  clockwise  discription anticlockwise  anticlockwise  senticlockwise  senticlockwise  Siemens  key number  SSG10  Front ring  product component front ring  design of the front ring  standard  material of the front ring  color of the front ring  sand gray  Conoral technical data  protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  according to IEC 60068-2-27  sinusoidal half-wave 15g / 11 ms  category 1, Class B  vibration resistance  according to IEC 60068-2-6  for railway applications according to EN 61373  Category 1, Class B  operating frequency maximum  1 800 1/h  Any inscription, text in upper/lower case, all words begin with upper case letters  any inscription, text in upper/lower case, all words begin with upper case letters  any inscription, text in upper/lower case, all words begin with upper case letters  any inscription, text in upper/lower case, all words begin with upper case letters  any inscription, text in upper/lower case, all words begin with upper case letters  any inscription, text in upper/lower case, all words begin with upper case letters  any inscription, text in upper/lower case, all words begin with upper case letters  any inscription, text in upper/lower case, all words begin with upper case letters  any inscription, text in upper/lower case, all words begin with upper case letters  and color of the front ring  by anticlock inscription with upper case letters  and color of the front ring  clock make  45°  45°  Siemens  45°  Front ring  45°  Fro	<ul> <li>of the actuating element</li> </ul>	silver	
outer diameter of the actuating element  marking of the actuating element  number of switching positions  switch position for key distraction  elockwise	material of the actuating element	metal	
marking of the actuating element  number of switching positions  switch position for key distraction  actuating angle  • clockwise • anticlockwise • anticlockwise • anticlockwise  • anticlockwise  • anticlockwise  • anticlockwise  • anticlockwise  • anticlockwise  • anticlockwise  • anticlockwise  • anticlockwise  • articlockwise  • articlockwi	shape of the actuating element	Key	
number of switching positions  switch position for key distraction  actuating angle  • clockwise  • anticlockwise  • anticlockwise  • anticlockwise  • anticlockwise  • anticlockwise  • siemens  key number  Front ring  product component front ring  get design of the front ring  material of the front ring  material of the front ring  protection class IP  • of the terminal  degree of protection NEMA rating  shock resistance  • according to IEC 60068-2-27  • for railway applications according to EN 61373  operating frequency maximum  1 800 1/h  1 800 1/h  1 45°  45°  45°  45°  45°  45°  45°  45°	outer diameter of the actuating element	29.5 mm	
switch position for key distraction  actuating angle  • clockwise  • anticlockwise  • anticlockwise  • anticlockwise  • anticlockwise  45°  • anticlockwise  Siemens  key number  SSG10  Front ring  product component front ring  design of the front ring  Metal, matt  color of the front ring  sand gray  General technical data  protection class IP  • of the terminal  degree of protection NEMA rating  shock resistance  • according to IEC 60068-2-27  • for railway applications according to EN 61373  operating frequency maximum  0 + 15°  45°  45°  45°  45°  45°  45°  45°	marking of the actuating element	Any inscription, text in upper/lower case, all words begin with upper case letters	
actuating angle	number of switching positions	3	
e clockwise e anticlockwise 45° lock make Siemens key number SSG10  Front ring  product component front ring gestion of the front ring Metal, matt color of the front ring eneral technical data  protection class IP of the terminal degree of protection NEMA rating shock resistance e according to IEC 60068-2-27 for railway applications according to EN 61373  vibration resistance e according to IEC 60068-2-6 for railway applications according to EN 61373  category 1, Class B operating frequency maximum  1 800 1/h	switch position for key distraction	O+I	
e anticlockwise lock make Siemens key number SSG10  Front ring  product component front ring design of the front ring material of the front ring material of the front ring color of the front ring  General technical data  protection class IP of the terminal degree of protection NEMA rating shock resistance e according to IEC 60068-2-27 of or railway applications according to EN 61373 operating frequency maximum  45° Siemens Siemens Standard Metal, matt sand gray  Metal, matt sand gray  Ple6, IP67, IP69(IP69K)  IP20 IP66, IP67, IP69(IP69K) IP20 IP20 IP20 IP20 IP20 IP20 IP20 IP20	actuating angle		
lock make key number SSG10  Front ring  product component front ring yes design of the front ring Metal, matt color of the front ring sand gray  General technical data  protection class IP of the terminal lP20  degree of protection NEMA rating shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373  vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373  operating frequency maximum  Signal Yes Signal Yes Signal Yes Signal Yes Signal Yes Signal Sig	• clockwise	45°	
key number  Front ring  product component front ring  design of the front ring  material of the front ring  Color of the front ring  General technical data  protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  according to IEC 60068-2-27  for railway applications according to EN 61373  operating frequency maximum  Yes  Standard  Metal, matt  Standard  Metal, matt  Poetal, matt  Standard  Metal, matt  Poetal, matt  Standard  Metal, matt  Stan	anticlockwise	45°	
product component front ring  product component front ring  design of the front ring  Metal, matt  color of the front ring  Sand gray  General technical data  protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  according to IEC 60068-2-27  for railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-6  of railway applications according to EN 61373  category 1, Class B  operating frequency maximum	lock make	Siemens	
product component front ring  design of the front ring  material of the front ring  Metal, matt  color of the front ring  Sand gray  General technical data  protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  according to IEC 60068-2-27  of or railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-6  of railway applications according to EN 61373  category 1, Class B  operating frequency maximum  Yes  Metal, matt  Standard  IP66, IP67, IP69(IP69K)  IP20  Category 1, 2 Iss  Category 1, Class B  Operating frequency maximum  1800 1/h	key number	SSG10	
design of the front ring  material of the front ring  Metal, matt  color of the front ring  Sand gray  General technical data  protection class IP  of the terminal  lP20  degree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance  oaccording to IEC 60068-2-27  sinusoidal half-wave 15g / 11 ms  of or railway applications according to EN 61373  vibration resistance  oaccording to IEC 60068-2-6  of railway applications according to EN 61373  Category 1, Class B  operating frequency maximum  1 800 1/h	Front ring		
material of the front ring color of the front ring sand gray  General technical data  protection class IP of the terminal egree of protection NEMA rating shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 Category 1, Class B  operating frequency maximum  1 800 1/h	product component front ring	Yes	
color of the front ring  General technical data  protection class IP  of the terminal  lP20  degree of protection NEMA rating  shock resistance  according to IEC 60068-2-27  of or railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-6  of or railway applications according to EN 61373  category 1, Class B  operating frequency maximum  sand gray  IP66, IP67, IP69(IP69K)  IP20  1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance  of according to IEC 60068-2-27  of according to IEC 60068-2-27  of according to IEC 60068-2-3  of according to IEC 60068-2-6  o	design of the front ring	Standard	
protection class IP of the terminal lP20 degree of protection NEMA rating shock resistance according to IEC 60068-2-27 of or railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 category 1, Class B  operating frequency maximum  IP66, IP67, IP69(IP69K) IP20  1, 2, 3, 3R, 4, 4X, 12, 13  sinusoidal half-wave 15g / 11 ms Category 1, Class B  10 500 Hz: 5g Category 1, Class B	material of the front ring	Metal, matt	
protection class IP of the terminal lP20  degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance of according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of or railway applications according to EN 61373  vibration resistance of according to IEC 60068-2-6 of or railway applications according to EN 61373  Category 1, Class B  operating frequency maximum  1 800 1/h	color of the front ring	sand gray	
<ul> <li>of the terminal</li> <li>degree of protection NEMA rating</li> <li>1, 2, 3, 3R, 4, 4X, 12, 13</li> <li>shock resistance         <ul> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> </ul> </li> <li>Vibration resistance         <ul> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> </ul> </li> <li>Category 1, Class B</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>operating frequency maximum</li> </ul> <li>1 800 1/h</li>	General technical data		
degree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance  • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms  • for railway applications according to EN 61373 Category 1, Class B  vibration resistance  • according to IEC 60068-2-6 10 500 Hz: 5g  • for railway applications according to EN 61373 Category 1, Class B  operating frequency maximum 1 800 1/h	protection class IP	IP66, IP67, IP69(IP69K)	
shock resistance  • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms  • for railway applications according to EN 61373 Category 1, Class B  vibration resistance  • according to IEC 60068-2-6 10 500 Hz: 5g  • for railway applications according to EN 61373 Category 1, Class B  operating frequency maximum 1 800 1/h	of the terminal	IP20	
<ul> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>operating frequency maximum</li> <li>1 800 1/h</li> </ul>	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13	
for railway applications according to EN 61373  Category 1, Class B  vibration resistance     according to IEC 60068-2-6     for railway applications according to EN 61373  Category 1, Class B  Category 1, Class B  Operating frequency maximum  1 800 1/h	shock resistance		
vibration resistance  • according to IEC 60068-2-6  • for railway applications according to EN 61373  operating frequency maximum  1 800 1/h	<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms	
• according to IEC 60068-2-6  • for railway applications according to EN 61373  operating frequency maximum  1 800 1/h	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B	
• for railway applications according to EN 61373  Category 1, Class B  operating frequency maximum  1 800 1/h	vibration resistance		
operating frequency maximum 1 800 1/h	• according to IEC 60068-2-6	10 500 Hz: 5g	
	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B	
mechanical service life (operating cycles) typical 1 000 000	operating frequency maximum	1 800 1/h	
	mechanical service life (operating cycles) typical	1 000 000	

reference code according to IEC 81346-2	S	
Substance Prohibitance (Date)	10/01/2014	
Safety related data		
B10 value with high demand rate according to SN 31920	300 000	
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	20 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	20 %	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
Ambient conditions		
ambient temperature		
during operation	-25 +70 °C	
during storage	-40 +80 °C	
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%)	
Installation/ mounting/ dimensions		
height	29.5 mm	
width	29.5 mm	
shape of the installation opening	round	
mounting diameter	22.3 mm	
positive tolerance of installation diameter	0.4 mm	
mounting height	61 mm	
installation width	29.5 mm	
installation depth	25.4 mm	
Certificates/ approvals		
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=3SU1030-5BN51-0AA0-Z Y15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1030-5BN51-0AA0-Z Y15

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1030-5BN51-

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1030-5BN51-0AA0-ZY15&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1030-5BN51-0AA0-ZY15&lang=en</a>

last modified:	1/26/2022 🗗