## **SIEMENS**

## **Data sheet**



key-operated switch Siemens, 22 mm, round, metal, shiny, lock number SSG10, with 2 keys, 3 switch positions I-O-II, latching, actuating angle  $2x45^\circ,\,10:30h/12h/13:30h,$  key removal II, Z=50-unit packaging

product designation design of the product Actualing/signaling element product type designation product type designation 3SU1 product line Metal, shiny, 22 mm manufacturer's article number of included key Actuator principle of operation of the actuating element product extension optional light source color of the actuating element material of the actuating element shape of the actuating element material of the actuating element shape of the actuating element number of switching positions switch position for key distraction ultracturery actualing element switch position for key distraction ultracturery element solvent element switch position for key distraction ultracturery element solvent element switch position for key distraction ultracturery element solvent element switch position for key distraction ultracturery element switch position for key solvent element switch position for element switch position for key solvent element switch position for key solven	product brand name	SIRIUS ACT	
product type designation product line Metal, shiny, 22 mm Metal, shiny, 24 me Metal, shiny, 22 mm Metal, shiny, 24 me Metal, shiny, 24 me Metal, shiny, 22 mm Metal, shiny, 24 me Metal, shiny, 24 me Metal, shiny, 22 mm Metal, shiny, 24 me Metal, shiny, 24 me Metal, shiny, 24 me Metal, shiny, 25 me Metal, shiny, 24 me Metal, shiny, 25 me Metal, shiny, 26 me Metal, shiny, 27 mm Metal, shiny, 28 me Metal, shiny, 27 me Metal, shiny, 28 me Metal, shiny, 29 me Metal, s	product designation	Key-operated switches	
product line manufacturer's article number of included key Actuator  principle of operation of the actuating element product extension optional light source  of the actuating element issilver material of the actuating element shape of the actuating element shape of the actuating element shape of the actuating element subter subter of the actuating element number of switching positions switch position for key distraction actuating angle clockwise anticlockwise see anticlockwise lock make key number SSG10 Front ring product component front ring design of the front ring material of the front ring material of the front ring material of the front ring silver  protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-6 operating frequency maximum 1800 1/h mechanical service life (switching cycles) typical reference code according to IEC 681346-2 Substance Prohibitance (Date)  10/10/12014	design of the product	Actuating/signaling element	
manufacturer's article number of included key  Actuator  principle of operation of the actuating element product extension optional light source  color  • of the actuating element material of the actuating element metal silver  material of the actuating element Metal shape of the actuating pelement Metal Shape of the shape of the actuating pelement Metal Shape of the shape of the actuating pelement Metal Shape of the shape of the actuating Metal Shape of the front ring Metal, high gloss color of the front ring Metal, high gloss Shape of the terminal Metal Shape of the terminal Metal December of the front ring Metal, high gloss Shape of the terminal Metal December of the shape of the shape of the terminal Metal December of the shape of the terminal Metal December of the shape of the shape of the terminal Metal December of the shape of	product type designation	3SU1	
Actuator  principle of operation of the actuating element product extension optional light source of the actuating element material of the actuating element silver material of the actuating element shape of the actuating element youter diameter of the actuating element number of switching positions 3 switch position for key distraction II actuating angle eleckwise enticlockwise 45° anticlockwise 45° iok make Siemens key number SSG10  Front ring product component front ring design of the front ring slandard material of the front ring silver  General technical data protection class IP of the terminal degree of protection NEMA rating shock resistance e according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance e according to IEC 60068-2-6 operating frequency maximum mechanical service life (switching cycles) typical reference code according to IEC 61346-2 Substance Prohibitance (Date) 10/01/2014	product line	Metal, shiny, 22 mm	
principle of operation of the actuating element product extension optional light source  color  of the actuating element silver material of the actuating element shape of the actuating element number of switching positions switch position for key distraction actuating angle olockwise anticlockwise anticlockwise sensure front ring product component front ring design of the front ring material of the front ring material of the count of the front ring silver  General technical data protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-6 operating frequency maximum mechanical service life (switching scycles) typical reference code according to IEC 61346-2 Substance Prohibitance (Date)  silver (10:30 h/12 h/13:30 h/10:13:00 h/12 h/13:30 h/10 No  No No No No No No No No No No No No	manufacturer's article number of included key	3SU1950-0FP80-0AA0	
product extension optional light source color  • of the actuating element material of the actuating element shape of the act	Actuator		
color  • of the actuating element material of the actuating element shape of the actuating element  very cuter diameter of the actuating element number of switching positions switch position for key distraction actuating angle clockwise • anticlockwise • anticlockwise  lock make key number  Front ring  product component front ring design of the front ring material of the front ring color of the front ring silver  General technical data  protection class IP of the terminal degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 vibration resistance • according to IEC 60068-2-6 operating frequency maximum mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)	principle of operation of the actuating element	latching, 2x45° (10:30 h/12 h/13:30 h)	
of the actuating element     material of the actuating element     shape of the actuating element     couter diameter of the actuating element     number of switching positions     switch position for key distraction     ill     actuating angle     olockwise     onticlockwise     onticlockwise     onticlockwise     indicockwise     indicoc	product extension optional light source	No	
material of the actuating element shape of the actuating element well shape of the actuating element cut diameter of switching positions  switch position for key distraction ll actuating angle clockwise delockwise delockwise delockwise delockwise delock make siemens key number scall scal	color		
shape of the actuating element outer diameter of the actuating element number of switching positions switch position for key distraction actuating angle clockwise definition of the foot ring product component front ring product component front ring design of the front ring material of the front ring silver  General technical data protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-6 operating frequency maximum mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)	<ul> <li>of the actuating element</li> </ul>	silver	
outer diameter of the actuating element     29.5 mm       number of switching positions     3       switch position for key distraction     II       actuating angle     6 clockwise       6 anticlockwise     45°       Iock make     Siemens       key number     SSG10       Front ring       product component front ring     Yes       design of the front ring     Standard       material of the front ring     Metal, high gloss       color of the front ring     silver       General technical data     IP20       of the terminal     IP20       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       vibration resistance     according to IEC 60068-2-6     10 500 Hz: 5g       operating frequency maximum     1 800 1/h       mechanical service life (switching cycles) typical     300 000       reference code according to IEC 81346-2     S       Substance Prohibitance (Date)     10/01/2014	material of the actuating element	metal	
number of switching positions switch position for key distraction actuating angle clockwise data anticockwise anticockwise se anticockwise lock make key number SSG10  Front ring product component front ring design of the front ring material of the front ring silver  General technical data protection class IP of the terminal lP20 degree of protection NEMA rating shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-6 operating frequency maximum mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) 1/5° 45° 45° 45° 45° 45° 45° 45° 45° 45° 4	shape of the actuating element	Key	
switch position for key distraction  actuating angle  • clockwise  • anticlockwise  • anticlockwise  lock make  key number  SSG10  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  sinusoidal half-wave 15g / 11 ms  vibration resistance  • according to IEC 60068-2-6  operating frequency maximum  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)	outer diameter of the actuating element	29.5 mm	
actuating angle	number of switching positions	3	
clockwise     anticlockwise     lock make     siemens     key number     SSG10  Front ring  product component front ring     design of the front ring     material of the front ring     silver  General technical data  protection class IP     of the terminal     degree of protection NEMA rating     shock resistance     according to IEC 60068-2-27     vibration resistance     according to IEC 60068-2-6     operating frequency maximum     mechanical service life (switching cycles) typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)      10	switch position for key distraction	II	
anticlockwise     lock make         Siemens     key number         SSG10  Front ring  product component front ring         Standard         material of the front ring         Metal, high gloss         color of the front ring         silver  General technical data  protection class IP         of the terminal         lege of protection NEMA rating         shock resistance	actuating angle		
lock make key number SSG10  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 lP20 degree of protection NEMA rating shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Substance (Date) Sunday Agents Siemens	• clockwise	45°	
key number SSG10  Front ring  product component front ring Yes  design of the front ring Standard  material of the front ring Metal, high gloss  color of the front ring silver  General technical data  protection class IP IP66, IP67, IP69(IP69K)  • of the terminal IP20  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  vibration resistance  • according to IEC 60068-2-6 10 500 Hz: 5g  operating frequency maximum 1 800 1/h  mechanical service life (switching cycles) typical 300 000  reference code according to IEC 81346-2 S  Substance Prohibitance (Date) 10/01/2014	<ul><li>anticlockwise</li></ul>	45°	
product component 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  vibration resistance  according to IEC 60068-2-6  operating frequency maximum  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Yes  Metal, high gloss  Standard  Metal, high gloss  Standard  Metal, high gloss  Standard  Metal, high gloss  silver  IP20  IP66, IP67, IP69(IP69K)  IP20  I	lock make	Siemens	
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  lP20  degree of protection NEMA rating  shock resistance  • according to IEC 60068-2-27  vibration resistance  • according to IEC 60068-2-6  operating frequency maximum  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Yes  Metal, high gloss  Metal, high gloss  Standard  Metal, high gloss  silver  IP66, IP67, IP69(IP69K)  IP20	key number	SSG10	
design of the front ring material of the front ring  Color of the front ring  Standard  Metal, high gloss silver  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  o according to IEC 60068-2-27  sinusoidal half-wave 15g / 11 ms  vibration resistance  o according to IEC 60068-2-6  operating frequency maximum 1 800 1/h  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Standard  Metal, high gloss  Standard  Metal, high gloss  silver  IP66, IP67, IP69(IP69K)  IP20  I 920  I 920  I 920  I 920  I 920  I 930  I	Front ring	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  vibration resistance  according to IEC 60068-2-6  operating frequency maximum  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Metal, high gloss  silver  Metal, high gloss  silver  IP66, IP67, IP69(IP69K)  IP20  IP	product component front ring	Yes	
color of the front ring  General technical data  protection class IP  of the terminal  degree of protection NEMA rating  sinusoidal half-wave 15g / 11 ms  vibration resistance  o according to IEC 60068-2-6  operating frequency maximum  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)	design of the front ring	Standard	
protection class IP	material of the front ring	Metal, high gloss	
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  vibration resistance  of according to IEC 60068-2-6  operating frequency maximum  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)	color of the front ring	silver	
● of the terminal  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  vibration resistance  ● according to IEC 60068-2-6  10 500 Hz: 5g  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  1 0/01/2014	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  vibration resistance  • according to IEC 60068-2-6  • according to IEC 60068-2-6  10 500 Hz: 5g  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  1, 2, 3, 3R, 4, 4X, 12, 13  3	protection class IP	IP66, IP67, IP69(IP69K)	
shock resistance	of the terminal	IP20	
	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13	
vibration resistance	shock resistance		
● according to IEC 60068-2-6  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  10 500 Hz: 5g  300 00/h  300 000  reference code according to IEC 81346-2  S	according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms	
operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 300 000 reference code according to IEC 81346-2 Substance Prohibitance (Date) 10/01/2014	vibration resistance		
mechanical service life (switching cycles) typical 300 000  reference code according to IEC 81346-2 S  Substance Prohibitance (Date) 10/01/2014	according to IEC 60068-2-6	10 500 Hz: 5g	
reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014	operating frequency maximum	1 800 1/h	
Substance Prohibitance (Date) 10/01/2014	mechanical service life (switching cycles) typical	300 000	
	reference code according to IEC 81346-2	S	
Safety related data	Substance Prohibitance (Date)	10/01/2014	
Carety 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	
<ul> <li>during operation</li> </ul>	-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	

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=3SU1050-5BL31-0AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1050-5BL31-0AA0-Z X90 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1050-5BL31-0AA0-Z X90

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3SU1050-5BL31-0AA0-Z X90&lang=en

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