## **SIEMENS**

## **Data sheet**



key-operated switch Siemens, 22 mm, round, plastic, lock number SSG10, with 2 keys, 3 switch positions I-O-II, latching, actuating angle 2x45°, 10:30h/12h/13:30h, key removal I+O+II, with laser labeling, upper case

product designation design of the product 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 color  • of the actuating element silver material of the actuating element shape of the actuating element shape of the actuating element Arking of the actuating element marking of the actuating element number of switching positions switch position for key distraction actuating angle clockwise anticlockwise shapicockwise shapicockwise for in make key number SSG10  Front ring product component front ring design of the front ring plastic color of the front ring design of the front ring degree of protection NEMA rating shock resistance a caccording to IEC 60068-2-27 a for rallway applications according to EN 61373 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical  1 000 000  Actuating spalling labelement product component front conditions according to EN 61373 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical	product brand name	SIRIUS ACT
product type designation product line Plastic, black, 22 mm 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 shape of the actuating element material of the actuating element material of the actuating element marking of the actuating element mumber of switching positions switch position for key distraction actuating angle elockwise enablecokwise solicity enables front ring product component front ring design of the front ring material of the front ring design of the front ring material of the front ring design of the front ring elback  General technical data protection class IP of the terminal element eaccording to IEC 60068-2-6 e for railway applications according to EN 61373 vibration resistance eaccording to IEC 60068-2-6 e for railway applications according to EN 61373 operating frequency maximum  1 south front frond plass of the second front plass of t	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 shape of the actuating element shape of the actuating element marking of the actuating element marking of the actuating element marking of the actuating element Any inscription, text in upper case number of switching positions switch position for key distraction actuating angle olockwise anticlockwise anticlockwise seanticlockwise front ring product component front ring design of the front ring material of the front ring glastic color of the front ring glastic color of the front ring formal technical data protection class IP of the terminal degree of protection NEMA rating vibration resistance according to IEC 60068-2-6 of ratiway applications according to EN 61373 operating frequency maximum  1 800 1/h  Identity 10:30 h/12 h/13:30 h)  Identity 12:45° (10:30 h/12 h/13:30 h)  Identity 13:45° (10:30 h/12 h/13:30 h)  Identity 13:45° (10:30 h/12 h/13:30 h)  Identity 14:45° (10:30 h/12 h/13:30 h)  Identity 15:45° (10:30 h/12 h/13:30 h)  Identity 16:45° (10:30 h/13 h/13:30	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	product type designation	3SU1
Actuator principle of operation of the actuating element product extension optional light source color  of the actuating element silver material of the actuating element metal shape of the actuating element (Key) outer diameter of the actuating element Any inscription, text in upper case number of switching positions (Ary in surface) actuating angle clockwise (As') outer diameter of the actuating element Any inscription, text in upper case number of switching positions (As') switch position for key distraction (As') actuating angle (As') outer diameter of the actuating element (Any inscription, text in upper case (As') actuating angle (As') outer diameter of the actuating element (Any inscription, text in upper case (As') actuating angle (As') outer diameter of the forting (As') actuating angle (As') outer diameter of the forting (As') product component front ring (As') design of the front ring (Asi) design of the front ring (Asi) color of the front ring (Asi) design of the front ring (Asi) color of the front ring (Asi) design of the fron	product line	Plastic, black, 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 marking of the actuating element marking of the actuating element marking of the actuating element Any inscription, text in upper case number of switching positions switch position for key distraction actuating angle clockwise silver actuating angle clockwise silver  front ring product component front ring design of the front ring material of the front ring slastic color of the front ring for the front ring degree of protection nEMA rating shock resistance according to IEC 60068-2-6 for railway applications according to EN 61373  perating frequency maximum  listching, 2x45° (10:30 h/12 h/13:30 h) 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 actuating element marking of the actuating element marking of the actuating element marking of the actuating pelment Any inscription, text in upper case number of switching positions switch position for key distraction actuating angle oclockwise onticlockwise onticlockwise onticlockwise onticlockwise onticlockwise sequence ocordinate front ring front ring material of the front ring material of the front ring color of the front ring product component front ring product component front ring material of the front ring product component front ring plastic color of the front ring plastic color of the front ring product data protection class IP of the terminal egere 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  1 800 1/h  1 800 1/h  1 800 1/h	Actuator	
color  • of the actuating element metal shape of the actuating element Key outer diameter of the actuating element 29.5 mm marking of the actuating element Any inscription, text in upper case number of switching positions 3 switch position for key distraction O-H+II actuating angle • clockwise 45° • anticlockwise 45° lock make Siemens key number SSG10  Front ring product component front ring Standard material of the front ring plastic color of the front ring black  General technical data protection class IP • of the terminal degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum 1 800 1/h  selection class IB  outer 1	principle of operation of the actuating element	latching, 2x45° (10:30 h/12 h/13:30 h)
of the actuating element metal shape of the actuating element Key outer diameter of the actuating element Any inscription, text in upper case number of switching positions 3 switch position for key distraction O+HII actuating angle electockwise 45° anticlockwise 45° enticlockwise 45° lock make Siemens key number SSG10 Front ring product component front ring Yes design of the front ring plastic color of the front ring black  General technical data  protection class IP of the terminal place electron NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance eaccording to IEC 60068-2-6 of railway applications according to EN 61373 outer time front ring category 1, Class B operating frequency maximum 1 800 1/h  event and suspense of the service of the side of	product extension optional light source	No
material of the actuating element shape of the actuating element well shape of the actuating element outer diameter of the actuating element marking of the actuating element number of switching positions switch position for key distraction actuating angle elockwise 45° anticlockwise 45° lock make Siemens key number SSG10  Front ring product component front ring design of the front ring color of the front ring plastic color of the front ring protection class IP of the terminal degree of protection NEMA rating shock resistance eaccording to IEC 60068-2-6 for railway applications according to EN 61373 operating frequency maximum  metal  key pound Applications according to EN 61373 poperating frequency maximum  metal  Apy inscription, text in upper case  Apy inscription, text in upper case  above in upper case  1 consideration in upper case  29.5 mm  Apy inscription, text in upper case  45°  45°  45°  45°  45°  45°  45°  45	color	
shape of the actuating element  outer diameter of the actuating element  marking of the actuating element  number of switching positions  switch position for key distraction  actuating angle  • clockwise  • anticlockwise  • anticlockwise  • anticlockwise  front ring  product component front ring  protection class IP  • of the terminal  degree of protection NEMA rating  shock resistance  • according to IEC 60068-2-6  • for railway applications according to EN 61373  operating frequency maximum  Key  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  also, inscription, text	<ul> <li>of the actuating element</li> </ul>	silver
outer diameter of the actuating element     29.5 mm       marking of the actuating element     Any inscription, text in upper case       number of switching positions     3       switch position for key distraction     O+I+III       actuating angle     45°       e clockwise     45°       e anticlockwise     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     plastic       color of the front ring     black       General technical data       protection class IP     IP66, IP67, IP69(IP69K)       e of the terminal     IP20       degree of protection NEMA rating     1, 2, 3, 3R, 4, 4X, 12, 13       shock resistance     sinusoidal half-wave 15g / 11 ms       e according to IEC 60068-2-27     sinusoidal half-wave 15g / 11 ms       e for railway applications according to EN 61373     Category 1, Class B       vibration resistance     10 500 Hz: 5g       e for railway applications according to EN 61373     Category 1, Class B       operating frequency maximum     1 800 1/h	material of the actuating element	metal
marking of the actuating element number of switching positions switch position for key distraction actuating angle clockwise santiclockwise anticlockwise solock make key number Front ring product component front ring design of the front ring material of the front ring color of the front ring plastic color of the terminal 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  Apy inscription, text in upper case  45° 0+III 0+II 0+III 0+II 0+III 0+II 0+III 0	shape of the actuating element	Key
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  protection class IP  • of the terminal  degree of protection NEMA rating  shock resistance  • according to IEC 60068-2-7  • for railway applications according to EN 61373  operating frequency maximum  o 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  45°    ock make   Siemens   Siemens   Key number   SSG10    Front ring   Product component front ring   design of the front ring   material of the front ring   color of the front ring   plastic   color of the front ring   black   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   of or railway applications according to EN 61373   Category 1, Class B   operating frequency maximum   1 800 1/h	marking of the actuating element	Any inscription, text in upper case
actuating angle  • clockwise • anticlockwise  • anticlockwise  Iock make  key number  Front ring  product component front ring  design of the front ring  material of the front ring  color of the front ring  protection class IP • of the terminal  degree of protection NEMA rating shock resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373  operating frequency maximum  45°  45°  45°  45°  45°  45°  45°  45	number of switching positions	3
clockwise anticlockwise anticlockwise  lock make Siemens key number SSG10  Front ring  product component front ring design of the front ring material of the front ring plastic color of the front ring black  General technical data  protection class IP of the terminal legue of protection NEMA rating shock resistance according to IEC 60068-2-7 according to IEC 60068-2-6 a	switch position for key distraction	O+I+II
o anticlockwise  lock make  Siemens  SSG10  Front ring  product component front ring  design of the front ring  material of the front ring  color of the front ring  protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  o according to IEC 60068-2-27  of railway applications according to EN 61373  operating frequency maximum  45°  Siemens  Siemens  Siemens  Standard  Pyes  Standard  plastic  Plast	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 black  General technical data protection class IP of the terminal legree of protection NEMA rating shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of or railway applications according to EN 61373  vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373  operating frequency maximum  Siemens Sied 10  Front ring Yes Up66, IP67, IP69(IP69K) IP20 IP20 IP66, IP67, IP69(IP69K) IP20 IP20 IP20 IP20 IP20 IP20 IP20 IP20	• 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  black  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  for railway applications according to EN 61373  operating frequency maximum  Yes  Standard  Prose  Ple6, IP67, IP69(IP69K)  IP20  IP20  IP20  IP20  Sinusoidal half-wave 15g / 11 ms  Category 1, Class B  Ocategory 1, Class B	<ul><li>anticlockwise</li></ul>	45°
Front ring product component front ring design of the front ring material of the front ring plastic color of the front ring black  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  Yes Standard Ples Standard Plastic Standard Pla	lock make	Siemens
product component front ring  design of the front ring  material of the front ring  color of the front ring  plastic  black  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 or railway applications according to EN 61373  category 1, Class B  operating frequency maximum  yes  Standard  Standard  Standard  Plastic  Plastic  IP66, IP67, IP69(IP69K)  IP20  IP20  IP20  Sinusoidal half-wave 15g / 11 ms  Category 1, Class B  Category 1, Class B	key number	SSG10
design of the front ring material of the front ring plastic color of the front ring black  General technical data  protection class IP of the terminal lP20 degree of protection NEMA rating shock resistance of according to IEC 60068-2-27 of tor 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  Standard plastic	Front ring	
material of the front ring  color of the front ring  Black  General technical data  protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  according to IEC 60068-2-27  of the 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  vibration resistance  of 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  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  category 1, Class B  vibration resistance  for railway applications according to EN 61373  category 1, Class B  category 1, Class B  category 1, Class B  operating frequency maximum  1 800 1/h	design of the front ring	Standard
protection class IP	material of the front ring	plastic
protection class IP  of the terminal  degree of protection NEMA rating  shock resistance  of according to IEC 60068-2-27  of the railway applications according to EN 61373  resistance  of according to IEC 60068-2-6  of railway applications according to EN 61373  category 1, Class B  vibration resistance  of according to IEC 60068-2-6  of railway applications according to EN 61373  category 1, Class B  category 1, Class B  category 1, Class B  1 800 1/h	color of the front ring	black
● 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  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	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	<ul> <li>of the terminal</li> </ul>	IP20
<ul> <li>according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms</li> <li>for railway applications according to EN 61373 Category 1, Class B</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6 10 500 Hz: 5g</li> <li>for railway applications according to EN 61373 Category 1, Class B</li> <li>operating frequency maximum 1 800 1/h</li> </ul>	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
<ul> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</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>Category 1, Class B</li> <li>1 800 1/h</li> </ul>	shock resistance	
vibration resistance	<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms
<ul> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>operating frequency maximum</li> <li>10 500 Hz: 5g</li> <li>Category 1, Class B</li> <li>1 800 1/h</li> </ul>	<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	<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
mechanical service life (switching cycles) typical 1 000 000	operating frequency maximum	1 800 1/h
	mechanical service life (switching 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	
<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=3SU1000-5BL11-0AA0-Z Y11

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-5BL11-0AA0-Z Y11

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-5BL11-0AA0-Z Y11

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=3SU1000-5BL11-0AA0-Z Y11&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1000-5BL11-0AA0-Z Y11&lang=en</a>

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