## **SIEMENS**

## **Data sheet**



Key-operated switch BKS, 22 mm, round, plastic, lock number S1, with 2 keys, 3 switch positions I-O-II, latching, actuating angle 2x45°, 10:30h/12h/13:30h, key removal O, with laser labeling, upper case and lower case, always upper case at the beginning of the word

product designation design of the product product type designation product time 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 shape of the actuating element shape of the actuating element material of the actuating element shape of the actuating element Marking 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 actuating angle clockwise disclockwise disclockwise disclockwise design of the front ring product component front ring gestion of the front ring product component front ring design of the front ring color of the front ring color of the front ring design of the front ring color of the front ring design of the front ring color of the front ring color of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-0 for railway applications according to EN 61373  peperating frequency maximum  1 800 th	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 color  • of the actuating element silver material 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 actuating angle • clockwise • anticlockwise • anticlockwise lock make key number  product component front ring groduct component front ring design of the front ring material of the front ring color of the front ring design of the front ring design of the front ring product component front ring design of the front ring color of the front ring design of the front ring design of the front ring shack  General technical data protection class IP • of the terminal degree of protection NEMA rating shock resistance • a excording to IEC 60068-2-6 • for railway applications according to EN 61373  Vibration resistance • a coording to IEC 60068-2-6 • for railway applications according to EN 61373  SSULT pside, 2245° (10:30 h/12 h/13:30 h) product component front ring plastic color of the front ring liack Category 1, Class B	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 marking of the actuating element acase letters number of switching positions switch position for key distraction actuating angle elockwise anticlockwise seanticlockwise solock make key number front ring product component front ring design of the front ring color of the front ring color of the front ring design of the terminal degree of protection NEMA rating shock resistance eacording to IEC 60068-2-6 of crailway applications according to EN 61373 Latching, 2x45° (10:30 h/12 h/13:30 h) No  latching, 2x45° (1	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 material of the actuating element shape of the actuating element weep outer diameter of the actuating element marking of the actuating element marking of the actuating element marking of the actuating element actuating element  marking of the actuating element  marking of the actuating element  number of switching positions  switch position for key distraction actuating angle clockwise anticlockwise  elick make skey number  Front ring  product component front ring design of the front ring material of the front ring color of the front ring foolor of the front ring elestic color of the front ring foolor of the front ring foolor of the front ring elestic color of the front ring foolor of the front ring foolor of the front ring foolor of the front ring election leas IP of the terminal foologies for railway applications according to EN 61373  vibration resistance according to IEC 60068-2-6 of rrailway applications according to EN 61373  Category 1, Class B  latching, 2x45° (10:30 h/12 h/13:30 h) No	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/lower case, all words begin with upper case letters  number of switching positions switch position for key distraction actuating angle oclockwise anticlockwise shape of the front ring design of the front ring material of the front ring material of the front ring color of the front ring plastic color of the front ring degree of protection NEMA rating shock resistance according to IEC 60068-2-6 for railway applications according to EN 61373 Category 1, Class B  Vibration resilators  vibration resilators vibration resilators  of the actuating element silver metal spending system silver metal silver silver silver/lower case, all words begin with upper case letters silver/lower case, all vords begin with upper/lower case, all vords begin with upper case letters silver/lower case, all vords begin with upper case letters silver in upper/lower case, all vords begin with upper case letters silver in upper/lower case, all vords begin with upper case letters silver in upper/lower case, all vords begin with upper case letters silver in upper/lower case, all vords begin with upper case letters silver in upper/lower case, all vords begin with upper case letters silver in upper/lower case, all vords begin with upper case letters silver i	manufacturer's article number of included key	3SU1950-0FD80-0AA0
product extension optional light source  color  • of the actuating element  material of the actuating element  shape of the actuating element  shape 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  o actuating angle  • clockwise  • anticlockwise  • anticlockwise  • anticlockwise  bCS  key number  Front ring  product component front ring  design of the front ring  material of the front ring  plastic  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  • 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	Actuator	
color  • of the actuating element material of the actuating element shape of the actuating element weep outer diameter of the actuating element marking of the actuating element  marking of the actuating element  marking of the actuating element  number of switching positions  switch position for key distraction actuating angle • clockwise • anticlockwise  • anticlockwise  • anticlockwise    ocok make   BCS   key number   Front ring   product component front ring   design of the front ring   material of the front ring   plastic   color of the front ring   design 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   category 1, Class B   vibration resilvance   • according to IEC 60068-2-6   • for railway applications according to EN 61373   category 1, Class B	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     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     octockwise     olockwise     onticlockwise	product extension optional light source	No
material of the actuating element shape of the actuating element working of the actuating element marking of the actuating element marking of the actuating element  29.5 mm Any inscription, text in upper/lower case, all words begin with upper case letters  number of switching positions 3 switch position for key distraction octuating angle oclockwise onticlockwise onticlockwise other index standard 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 feneral technical data protection class IP of the terminal lP20 degree of protection NEMA rating shock resistance one according to IEC 60068-2-27 of or railway applications according to EN 61373 vibration resistance octor in the section in the section of the sect	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 otolockwise enticlockwise anticlockwise lock make bcs 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 60068-2-6 for railway applications according to EN 61373  Value of the service of	<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/lower case, all words begin with upper case letters       number of switching positions     3       switch position for key distraction     0       actuating angle <ul> <li>clockwise</li> <li>anticlockwise</li> <li>ds*</li> <li>lock make</li> <li>BCS</li> </ul> key number     \$1       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)               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               of or railway applications according to EN 61373             Category 1, Class B               vibration resistance             according to IEC 60068-2-6              10 500 Hz: 5g               of or railway applications according to EN 61373             Category 1, Class B	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  styrent ring product component 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 60068-2-27 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	shape of the actuating element	Key
number of switching positions switch position for key distraction o actuating angle clockwise anticlockwise substance anticlockwise substance anticlockwise substance	outer diameter of the actuating element	29.5 mm
switch position for key distraction  actuating angle  • clockwise  • anticlockwise  • anticlockwise  Iock make  BCS  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  category 1, Class B  vibration resistance  • according to IEC 60068-2-6  • for railway applications according to EN 61373  Category 1, Class B	marking of the actuating element	
actuating angle  • clockwise  • anticlockwise  • anticlockwise  Iock make  BCS  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 60068-2-6  • for railway applications according to EN 61373  class of the service of the serv	number of switching positions	3
octokwise     onticlockwise     onticlockwi	switch position for key distraction	0
o 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     plastic     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 or railway applications according to EN 61373     vibration resistance     o according to IEC 60068-2-6     o for railway applications according to EN 61373     Category 1, Class B  Value  Occupant  A 5°  Ves  Standard  Plastic  Dlack  BCS  Standard  Plastic  Dlack  Standard  Plastic  Dlack  Standard  Plastic  Standard  Plastic  Dlack  Standard  Plastic  Standard  Plastic  Dlack  Standard  Plastic  Dlack  Standard  Plastic  Standard  Plastic  Dlack  Standard  Plastic  Standard  Plastic  Dlack  Standard  Plastic  Standard  Pla	actuating angle	
lock make key number S1  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 lP20 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  vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373  Category 1, Class B	• clockwise	45°
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 60068-2-27  of or railway applications according to EN 61373  value of the ten should be seen according to EN 61373  category 1, Class B  Vibration resistance  according to IEC 60068-2-6  of or railway applications according to EN 61373  category 1, Class B  Category 1, Class B	anticlockwise	45°
Front ring  product component front ring  design of the front ring  material of the front ring  plastic  color of the front ring  plastic  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  Product of the terminal  IP20  Category 1, Class B  vibration resistance  according to IEC 60068-2-6  of or railway applications according to EN 61373  Category 1, Class B  Category 1, Class B	lock make	BCS
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  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  vibration resistance  • according to IEC 60068-2-6  of or railway applications according to EN 61373  Category 1, Class B	key number	S1
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 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  Category 1, Class B  Category 1, Class B  Category 1, Class B	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  o according to IEC 60068-2-27  of to railway applications according to EN 61373  vibration resistance  o according to IEC 60068-2-6  of railway applications according to EN 61373  Category 1, Class B  vibration resistance  o according to IEC 60068-2-6  of railway applications according to EN 61373  Category 1, Class B  Category 1, Class B	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  of according to IEC 60068-2-27  of railway applications according to EN 61373  vibration 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	design of the front ring	Standard
protection class IP of the terminal lP20 degree of protection NEMA rating shock resistance of according to IEC 60068-2-27 of or railway applications according to EN 61373 vibration 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 or railway applications according to EN 61373 Category 1, Class B  Category 1, Class B  Category 1, Class B	material of the front ring	plastic
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  for railway applications according to EN 61373  vibration resistance  o according to IEC 60068-2-6  of railway applications according to EN 61373  Category 1, Class B  vibration resistance  o according to IEC 60068-2-6  of railway applications according to EN 61373  Category 1, Class B	color of the front ring	black
<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</li> <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>10 500 Hz: 5g</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> </ul>	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	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	of the terminal	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> </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> </ul>	shock resistance	
vibration resistance         ● according to IEC 60068-2-6       10 500 Hz: 5g         ● for railway applications according to EN 61373       Category 1, Class B	<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>Category 1, Class B</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	vibration resistance	
	<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
operating frequency maximum 1 800 1/h	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
	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
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
height width	29.5 mm 29.5 mm
width	29.5 mm
width shape of the installation opening	29.5 mm round
width shape of the installation opening mounting diameter	29.5 mm round 22.3 mm
width shape of the installation opening mounting diameter positive tolerance of installation diameter	29.5 mm round 22.3 mm 0.4 mm
width shape of the installation opening mounting diameter positive tolerance of installation diameter mounting height	29.5 mm round 22.3 mm 0.4 mm 56.3 mm
width shape of the installation opening mounting diameter positive tolerance of installation diameter mounting height installation width	29.5 mm round 22.3 mm 0.4 mm 56.3 mm 29.5 mm

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=3SU1000-5PL01-0AA0-Z Y15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-5PL01-0AA0-Z Y15

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-5PL01-0AA0-Z Y15

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=3SU1000-5PL01-0AA0-Z Y15&lang=en

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