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 II, 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 type designation 3SU1 product type designation 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 Marking of the actuating element Mark	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 Ick make key number product component front ring design of the front ring material of the front ring material of the front ring design of the front ring product component front ring design of the front ring material of the front ring element Plastic Disack General technical data protection class IP • of the terminal degree of protection NEMA rating shock resistance • a cacreding to IEC 60068-2-6 • for railway applications according to EN 61373 SSUIPSO-OFD80-0AA0 Actuation Plastic, black, 22 mm latching, 2x45° (10:30 h/12 h/13:30 h) product extension place latching, 2x45° (10:30 h/12 h/13:30 h) product extension place latching, 2x45° (10:30 h/12 h/13:30 h) product component front ring design of the front ring plastic Disack General technical data protection class IP • of the terminal degree of protection NEMA rating shock resistance • a caccrifing to IEC 60068-2-6 • for railway applications according to EN 61373 Vibration resistance • a caccrifing to IEC 60068-2-6 • for railway applications according to EN 61373 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 sliver 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 actuating element marking of the actuating element actuating element actuating element marking of the actuating element actuating alement actuating alement actuating angle olockwise actuating angle alectockwise actuating angle alectockwise becomes actuating angle colockwise actuating angle actuating	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 shape of the actuating element warking 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 actuating element marking of the actuating element number of switching positions switch position for key distraction actuating angle clockwise anticlockwise bcs key number stal 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 elestic color of the front ring foreial technical data protection class IP of the terminal elege of protection NEMA rating shock resistance according to IEC 60068-2-6 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	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 3 switch position for key distraction actuating angle olockwise anticlockwise 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 of rrailway applications according to EN 61373 Latting Ava 45° (10:30 h/12 h/13:30 h) No	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 marking of the actuating element number of switching positions switch position for key distraction actuating angle oclockwise anticlockwise anticlockwise anticlockwise because actuating angle oclockwise staff front ring product component front ring design 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 60068-2-6 for railway applications according to EN 61373 Category 1, Class B vibration resilazions restal silver metal silver metal sky metal sylow sylow metal sylow s	Actuator	
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 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 lock make key number front ring product component front ring design of the front ring material of the front ring material 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 Category 1, Class B wibration resistance • 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 actuating angle	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 marking of the actuating element number of switching positions switch position for key distraction actuating angle e clockwise 45° anticlockwise 45° 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 plastic color of the front ring 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 easign of LEC 60068-2-6 for railway applications according to EN 61373 material of the Category 1, Class B category 1, Class B category 1, Class B category 1, Class B	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 actuating angle e clockwise anticlockwise anticlockwise 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 60068-2-27 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	 of the actuating element 	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 II actuating angle clockwise anticlockwise ds* lock make BCS 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	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 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 Associated 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 all words begin with upper case letters a special text in upper/lower case, all words begin with upper case letters a special text in upper/lower case, all words begin with upper case letters a special text in upper/lower case, all words begin with upper case letters a special text in upper/lower case, all words begin with upper case letters a special text in upper/lower case, all words begin with upper case letters a special text in upper/lower case, all words begin with upper case letters a special text in upper/lower case, all words begin with upper case letters a special text in upper/lower case, all words as letters a special text in upper/lower case, all words as letters a special text in upper/lower case, all words as letters a special text in upper/lower case, all words as letters a special text in upper/lower case, all words as letters a special text in upper/lower case, all words as letters a special text in upper/lower case letters a special text in upper/lower case, and case as letters a special tex	shape of the actuating element	Key
number of switching positions switch position for key distraction actuating angle	outer diameter of the actuating element	29.5 mm
switch position for key distraction actuating angle • clockwise • anticlockwise • anticlockwise Ick 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 plastic 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 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	number of switching positions	3
clockwise anticlockwise anticlockwise lock make BCS key number S1 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 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 railway applications according to EN 61373 Category 1, Class B vibration resistance acategory 1, Class B Category 1, Class B	switch position for key distraction	
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 60068-2-27 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 eaccording to IEC 60068-2-6 for railway applications according to EN 61373 category 1, Class B category 1, Class B category 1, Class B	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 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 of according to IEC 60068-2-27 of or railway applications according to EN 61373 For railway applications according to EN 61373 Salaa Salaa Yes Standard plastic standard plastic plastic plastic slava	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 Category 1, Class B 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	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 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	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 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 of according to IEC 60068-2-6 of railway applications according to EN 61373 Category 1, Class B	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 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 10 500 Hz: 5g for railway applications according to EN 61373 Category 1, Class B 	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
 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 	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 	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	according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
 according to IEC 60068-2-6 for railway applications according to EN 61373 Category 1, Class B 	 for railway applications according to EN 61373 	Category 1, Class B
• for railway applications according to EN 61373 Category 1, Class B	vibration resistance	
	according to IEC 60068-2-6	10 500 Hz: 5g
operating frequency maximum 1 800 1/h	 for railway applications according to EN 61373 	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	
 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
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=3SU1000-5PL31-0AA0-Z Y15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-5PL31-0AA0-Z Y15

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-5PL31-0AA0-Z Y15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3SU1000-5PL31-0AA0-Z Y15&lang=en

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