## **SIEMENS**

## **Data sheet**



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

product designation design of the product product type designation product type designation product type designation product time  Actuator  Principle of operation of the actuating element product extension optional light source color • of the actuating element material of the actuating element silver material of the actuating element shape of the actuating element shape of the actuating element wetal shape of the actuating element shape of switching yelement shape of the actuating element s	product brand name	SIRIUS ACT
product type designation product line  Metal, shiny, 22 mm  Actuator  principle of operation of the actuating element product extension optional light source of the actuating element	product designation	Key-operated switches
product line Metal, shiny, 22 mm  Actuator  principle of operation of the actuating element product extension optional light source No  color  • of the actuating element metal silver material of the actuating element Metal of the actuating element Metal shape of the actuating element Metal Met	design of the product	Actuating/signaling element
Actuator  principle of operation of the actuating element product extension optional light source No  color  • of the actuating element silver material of the actuating element metal shape of the actuating element Super of switching positions Super of switching operations Super of switching operations Super of switching operations Super of switching operations Super operating forequency maximum Super operating frequency super operating frequency super operating frequency super operations operations operations operations operations operat	product type designation	3SU1
principle of operation of the actuating element product extension optional light source color  of the actuating element sliver material of the actuating element shape of the actuating element shape of the actuating operations number of switching positions switch position for key distraction actuating angle clockwise anticlockwise senticlockwise front ring product component front ring design of the front ring material of the front ring solver general technical data protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-7 substance Prohibitance (Date) Substance Prohibitance (Date) Substance Prohibitance (Date) Safety related data B10 value with high demand rate according to SN 31920  Involve Weep (10:30 h/12 h/13:30 h) No Involve (10:30 h/12 h/13:30 h) Involve (10:30 h/13:30 h/13:30 h) Involve (10:30 h/13:30 h/13:30 h/13:30 h) Involve (10:30 h/13:30 h/13:	product line	Metal, shiny, 22 mm
product extension optional light source  color  of the actuating element material of the actuating element shape of the actuating element number of switching positions switch position for key distraction actuating angle oclockwise anticlockwise anticlockwise selected 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 operating frequency maximum mechanical service life (switching cycles) typical B10 value with high demand rate according to ISC 31940  silver solvent resistance according to IEC 81346-2 Substance Ponbibitance (Date) Safety rolated data B10 value with high demand rate according to ISC 313920 Substance Ponbibitance  liver silver metal  ### Available ### Availab	Actuator	
color  • 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 29.5 mm number of switching positions 3 switch position for key distraction actuating angle • clockwise 45° • anticlockwise 45° • anticlockwise Iock make Front ring product component front ring fent 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 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 1 800 1/h mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Substance Ponbibitance (Date)  810 value with high demand rate according to SN 31920  300 000	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 outer diameter of the actuating element number of switching positions switch position for key distraction actuating angle • clockwise • anticlockwise • anticlockwise  Ick make  Front ring product component front ring design of the front ring material 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 Position Loss (SN 31920)  Safety related data  B10 value with high demand rate according to SN 31920  Safety related data  B10 value with high demand rate according to SN 31920  Safety related data  B10 value with high demand rate according to SN 31920	product extension optional light source	No
material of the actuating element shape of the actuating element number of the actuating element number of switching positions switch position for key distraction ll actuating angle e clockwise 45° e anticlockwise 45° lock make Siemens  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 1 800 1/h mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitiance (Date) Safety related data B10 value with high demand rate according to SN 31920  Safety related data B10 value with high demand rate according to SN 31920  III  29.5 mm  45° 45° 45° 45° 45° 45° 45° 45° 45° 45	color	
shape of the actuating element  outer diameter of the actuating element  number of switching positions  switch position for key distraction  actuating angle  • clockwise  • anticlockwise  • anticlockwise  Ick make  siemens  Front ring  product component front ring  design 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 60068-2-27  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 (Date)  Safety related data  B10 value with high demand rate according to SN 31920  8  Safety related data  B10 value with high demand rate according to SN 31920  8  Safety related data  B10 value with high demand rate according to SN 31920  300 000	<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     45°       • clockwise     45°       • anticlockwise     45°       lock make     Siemens       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       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     8       Substance Prohibitance (Date)     10/01/2014       Safety related data     B10 value with high demand rate according to SN 31920     300 000	material of the actuating element	metal
number of switching positions switch position for key distraction actuating angle • clockwise • anticlockwise • anticlockwise  front ring product component front ring design 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) Safety related data  B10 value with high demand rate according to SN 31920  10	shape of the actuating element	Key
switch position for key distraction actuating angle  • clockwise • anticlockwise  • anticlockwise  Ick make  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)  Safety related data  B10 value with high demand rate according to SN 31920  300 000	outer diameter of the actuating element	29.5 mm
actuating angle  • clockwise • anticlockwise 45°  lock make Siemens  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)  Safety related data  B10 value with high demand rate according to SN 31920  300 000	number of switching positions	3
oclockwise     onticlockwise     onticlockwise     ock make     Siemens  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     oaccording to IEC 60068-2-27  vibration resistance     oeracting to IEC 60068-2-6     operating frequency maximum     mechanical service life (switching cycles) typical     reference code according to IEC 81348-2     Substance Prohibitance (Date)  Safety related data  B10 value with high demand rate according to SN 31920  300 000	switch position for key distraction	II
lock make Siemens  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  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)  Safety related data  B10 value with high demand rate according to SN 31920  300 000	actuating angle	
lock make  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  1 800 1/h  mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Safety related data  B10 value with high demand rate according to SN 31920  300 000	• clockwise	45°
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 substance Prohibitance (Date) Safety related data B10 value with high demand rate according to SN 31920  Standard Metal, high gloss Standard Metal, high g	anticlockwise	45°
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 leg20 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)  B10 value with high demand rate according to SN 31920  300 000	lock make	Siemens
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 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)  Safety related data  B10 value with high demand rate according to SN 31920  Metal, high gloss Metal, high g	Front ring	
material of the front ring color 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 vibration resistance according to IEC 60068-2-6 poperating frequency maximum mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data B10 value with high demand rate according to SN 31920  Metal, high gloss silver  Metal, high gloss silver  Metal, high gloss silver  Metal, high gloss silver  IP66, IP67, IP69(IP69K)  IP20  1, 2, 3, 3R, 4, 4X, 12, 13  shock resistance  inuscidal half-wave 15g / 11 ms  vibration resistance  10 500 Hz: 5g  300 000  10 500 Hz: 5g  10 500 Hz: 5g  10 500 Hz: 5g  10 500 Hz: 5g  300 000	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  o according to IEC 60068-2-27  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)  Safety related data  B10 value with high demand rate according to SN 31920  Soft the feron, IP69(IP69K)  IP20  IP66, IP67, IP69(IP69K)  IP20  IP66, IP67, IP69(IP69K)  IP20  IP66, IP67, IP69(IP69K)  IP60, IP67, IP69(IP69K)  IP60, IP69(IP69K)  IP60, IP67, IP69(IP69K)  IP60, IP67, IP69(IP69K)  IP60, IP69(IP69K)  IP60, IP67, IP69(IP69K)  IP60, IP67, IP69(IP69K)  IP60, IP67, IP69(IP69K)  IP60, IP67, IP69(IP69K)  IP60,	design of the front ring	Standard
protection class IP  of the terminal  legree of protection NEMA rating  shock resistance  o according to IEC 60068-2-27  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)  Safety related data  B10 value with high demand rate according to SN 31920  IP20  IP66, IP67, IP69(IP69K)  IP20  IP20  In Sinusoidal half-wave 15g / 11 ms  vibration resistance  10 500 Hz: 5g  10 500 Hz: 5g  200 000  10 500 Hz: 5g  200 000  300 000  300 000  300 000	material of the front ring	Metal, high gloss
protection class IP	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)  Safety related data  B10 value with high demand rate according to SN 31920 300 000	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 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  Safety related data  B10 value with high demand rate according to SN 31920 300 000	protection class IP	IP66, IP67, IP69(IP69K)
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  Safety related data  B10 value with high demand rate according to SN 31920 300 000	of the terminal	IP20
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  Substance Prohibitance (Date)  Safety related data  B10 value with high demand rate according to SN 31920  300 000	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
vibration resistance	shock resistance	
<ul> <li>according to IEC 60068-2-6</li> <li>10 500 Hz: 5g</li> <li>operating frequency maximum</li> <li>1 800 1/h</li> <li>mechanical service life (switching cycles) typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Safety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>300 000</li> </ul>	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  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Safety related data  B10 value with high demand rate according to SN 31920  300 000	vibration resistance	
mechanical service life (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Safety related data  B10 value with high demand rate according to SN 31920  300 000	according to IEC 60068-2-6	10 500 Hz: 5g
reference code according to IEC 81346-2 Substance Prohibitance (Date) 10/01/2014 Safety related data B10 value with high demand rate according to SN 31920 300 000	operating frequency maximum	1 800 1/h
Substance Prohibitance (Date)  10/01/2014  Safety related data  B10 value with high demand rate according to SN 31920  300 000	mechanical service life (switching cycles) typical	300 000
Safety related data B10 value with high demand rate according to SN 31920 300 000	reference code according to IEC 81346-2	S
B10 value with high demand rate according to SN 31920 300 000	Substance Prohibitance (Date)	10/01/2014
	Safety related data	
proportion of dangerous failures	D10 value with high demand rate according to CN 21020	
	B to value with high demand rate according to SN 31920	300 000

<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 Y01

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1050-5BL31-0AA0-Z Y01

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1050-5BL31-0AA0-Z Y01

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=3SU1050-5BL31-0AA0-Z Y01&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1050-5BL31-0AA0-Z Y01&lang=en</a>

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