## **SIEMENS**

## **Data sheet**



Key-operated switch BKS, 22 mm, round, plastic, Lock No. E9 (VW), without key, 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 type designation  design of the product product type designation product extension of the actuating element product extension optional light source No color of the actuating element silver material of the actuating element shape of the actuating element well shape of the actuating element Any inscription, text in upper case number of switching positions switch position for key distraction actuating angle olockwise olockwise olockwise olockwise olockmise onliclockwise olock make BCS key number Front ring product component front ring design of the front ring design of the front ring plastic color of the front ring degree of protection NEMA rating shock resistance olocorating to EC 60068-2-6 of railway applications according to EN 61373 Category 1, Class B Operating class (Sc 8) (S 8) (S 8) Category 1, Class B Operating frequency maximum 1 80 (100 000) Feference code according to IEC 61346-2 S	product brand name	SIRIUS ACT
product type designation product line Plastic, black, 22 mm  Actuator  principle of operation of the actuating element product extension optional light source oolor of the actuating element material of the actuating element shape of the actuating element shape of the actuating element Marking of the front ring Marking of the front ring element Marking of the actuating element Marking of the front ring element Marking of the actuating element Marking of the front ring element Marking of the actuating element Marking of the front ring element Marking of the actuating element Marking of the front ring element Ma	product designation	Key-operated switches
product line Actuator  principle of operation of the actuating element principle of operation optional light source color  of the actuating element material of the actuating element shape of the actuating element shape of the actuating element shape of the actuating element wouter diameter of the actuating element Any inscription, text in upper case number of switching positions switch position for key distraction actuating angle clockwise anticlockwise anticlockwise book make key number  Front ring product component front ring design of the front ring material 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 60068-2-27 of or railway applications according to EN 61373 classing in the form of the catuating of the formal material of the formal polarical category 1, Class B of or railway applications according to EN 61373 classing in the formal material of the formal polarical category 1, Class B of or railway applications according to EN 61373 classing in the formal material of the formal polarical of the formal polarical	design of the product	Actuating/signaling element
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 word diameter of the actuating element Marking of the actuating element Any inscription, text in upper case number of switching positions 3 switch position for key distraction CH+II actuating angle • clockwise • clockwise • 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 color of the front ring plastic color of the front ring for protection class IP • of the terminal degree of protection NEMA rating shock resistance • according to IEC 60068-2-8 • 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  1 800 1/h mechanical service life (switching cycles) typical	product type designation	3SU1
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 weetal shape of the actuating element warking of the actuating element Any inscription, text in upper case number of switching positions 3 switch position for key distraction actuating angle • clockwise • anticlockwise • anticlockwise lock make BCS key number  Front ring product component front ring design of the front ring design of the front ring color of the front ring black  Ceneral 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 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical	product line	Plastic, black, 22 mm
product extension optional light source color	Actuator	
color	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	product extension optional light source	No
material of the actuating element shape of the actuating element very outer diameter of the actuating element marking of the actuating element number of switching positions switch position for key distraction actuating angle clockwise clockwise clockwise clock make sequence element front ring material of the front ring material of the front ring color of the front ring color of the front ring degree of protection NEMA rating shock resistance electrofic according to IEC 60068-2-8 of railway applications according to EN 61373 operating frequency maximum mechanical service life (switching cycles) typical  resistance very first firs	color	
shape of the actuating element outer diameter of the actuating element marking of the actuating element number of switching positions 3 switch position for key distraction actuating angle • clockwise • anticlockwise • anticlockwise • anticlockwise • anticlockwise • anticlockwise • E9  Front ring  product component front ring design of the front ring color 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  operating frequency maximum  possible of the final case in the final case in the final case is a case in the final case in the final case is a case in the final case	<ul> <li>of the actuating element</li> </ul>	silver
outer diameter of the actuating element marking of the actuating element number of switching positions 3 switch position for key distraction actuating angle • clockwise • anticlockwise • anticlockwise lock make key number E9 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 protection class IP of the terminal liP20 degree of protection NEMA rating shock resistance • according to IEC 60068-2-6 of or railway applications according to EN 61373  operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 0.01 100 000  O+I+II Any inscription, text in upper case  B CS	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  e anticlockwise BCS key number E9  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  operating frequency maximum  Any inscription, text in upper case  Any inscription, text in upper case  Any inscription, text in upper case  3  Any inscription, text in upper case  Any inscription, text in upper case  45°  45°  45°  45°  45°  45°  45°  45	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  • 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 60068-2-27  • for railway applications according to EN 61373  operating frequency maximum  mechanical service life (switching cycles) typical  O+I+II  45°  45°  45°  45°  45°  45°  45°  4	marking of the actuating element	Any inscription, text in upper case
actuating angle	number of switching positions	3
clockwise     anticlockwise     anticlockwise     d5°     lock make     BCS     key number     E9  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     lip20  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  operating frequency maximum     mechanical service life (switching cycles) typical      d5°      lock make     BCS     Res     BCS     Res     leg	switch position for key distraction	O+I+II
e anticlockwise  lock make  BCS  key number  E9  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  e according to IEC 60068-2-27  of or railway applications according to EN 61373  vibration resistance  e according to IEC 60068-2-6  of railway applications according to EN 61373  operating frequency maximum  mechanical service life (switching cycles) typical  pege  protection VEMA  protection VEMA  protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  protection NEMA  protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  protection NEMA  protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  protection NEMA  protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  protection NEMA  protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  protection NEMA  protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  protection NEMA  protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13  protection NEMA	actuating angle	
lock make key number E9  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 of 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 mechanical service life (switching cycles) typical  operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical	<ul><li>clockwise</li></ul>	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  for railway applications according to EN 61373  operating frequency maximum  mechanical service life (switching cycles) typical  Yes  Standard  plastic  black  Plastic	<ul><li>anticlockwise</li></ul>	45°
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  equation of the terminal  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  according to IEC 60068-2-6  for railway applications according to EN 61373  category 1, Class B  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical	lock make	BCS
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 of the front ring	key number	E9
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 of the	Front ring	
material 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  of 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  of according to IEC 60068-2-6 10 500 Hz: 5g  of or 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	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 fresistance  for railway applications according to EN 61373  category 1, Class B  category 1, Class B  operating frequency maximum  1 800 1/h  mechanical service life (switching cycles) typical  1 000 000	design of the front ring	Standard
protection class IP	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 of 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 of according to IEC 60068-2-6 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 1 000 000	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  ● 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  mechanical service life (switching cycles) typical 1 000 000	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  • 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  mechanical service life (switching cycles) typical 1 000 000	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  mechanical service life (switching cycles) typical 1 000 000	<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> <li>mechanical service life (switching cycles) typical 1 000 000</li> </ul>	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
	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         operating frequency maximum       1 800 1/h         mechanical service life (switching cycles) typical       1 000 000	<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> <li>operating frequency maximum</li> <li>mechanical service life (switching cycles) typical</li> <li>1 800 1/h</li> <li>1 000 000</li> </ul>	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
<ul> <li>◆ for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>Operating frequency maximum</li> <li>1 800 1/h</li> <li>mechanical service life (switching cycles) typical</li> <li>1 000 000</li> </ul>	vibration resistance	
operating frequency maximum     1 800 1/h       mechanical service life (switching cycles) typical     1 000 000	<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
mechanical service life (switching cycles) typical 1 000 000	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
, , , , ,	operating frequency maximum	1 800 1/h
reference code according to IEC 81346-2	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
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	56.3 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)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-5TL11-0AA0-Z Y11">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-5TL11-0AA0-Z Y11</a>

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-5TL11-0AA0-Z Y11

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-5TL11-0AA0-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=3SU1000-5TL11-0AA0-Z Y11&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1000-5TL11-0AA0-Z Y11&lang=en</a>

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