## **SIEMENS**

## **Data sheet**



Key-operated switch BKS, 22 mm, round, plastic, Lock No. E2 (VW), without key, 2 switch positions O-I, latching, actuating angle 90°, 10:30h/13:30h, key removal O+I, with laser labeling, inscription or symbol Customer-specific selection with SIRIUS ACT configurator (CIN)

product designation design of the product product type designation 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 wetal shape of the actuating element shape of the actuating element warking of the actuating element Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuratori/Configuration Identification Number (CIN)  number of switching positions 2 switch position for key distraction actuating angle • clockwise lock make BCS key number E2  Front ring product component front ring design of the front ring design of the front ring material of the front ring design of the front ring color of the front ring 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 mechanical service life (switching cycles) typical reference code according to IEC 61364-2 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 color • of the actuating element material of the actuating element shape of the actuating element warking of the actuating element marking of the actuating element  OH  OH  COH  COH  COH  COH  COH  COH	product designation	Key-operated switches
product line Plastic, black, 22 mm  Actuator  principle of operation of the actuating element product extension optional light source No  of the actuating element silver material of the actuating element Marking of the actuating element Shape of the actuating element Marking of the actuating positions Shirt of switching and Shirt of Sh	design of the product	Actuating/signaling element
Actuator  principle of operation of the actuating element product extension optional light source of the actuating element material of the actuating element silver material of the actuating element shape of the actuating element wouter diameter of the actuating element marking of the actuating element marking of the actuating element arking of the actuating element marking of the actuating element arking of the actuating element  number of switching positions 2 switch position for key distraction actuating angle oclockwise 90° lock make BCS key number Front ring product component front ring design of the front ring design of the front ring material of the front ring protection class IP of the front ring element  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 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	product type designation	3SU1
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  marking of the actuating element  marking of the actuating element  number of switching positions  2  switch position for key distraction actuating angle olockwise olockwise lock make BCS key number  Front ring product component front ring design of the front ring material of the front ring material of the front ring plastic color of the front ring degree of protection NEMA rating shock resistance o according to IEC 60068-2-6 of or railway applications according to EN 61373 operating frequency maximum fine color of the front ring various plastic color fire grequency maximum fine color file for railway applications according to EN 61373 operating frequency maximum fine color file for color of the front ring for called the color of the front ring for railway applications according to EN 61373 operating frequency maximum fine color of the front resistance for railway applications according to EN 61373 operating frequency maximum fine color of the front resistance for railway applications according to EN 61373 operating frequency maximum fine color of the front resistance for railway applications according to EN 61373 operating frequency maximum fine color of the front resistance for railway applications according to EN 61373 operating frequency maximum fine color of the front resistance for railway applications according to EN 61373 for the color of the front resistance for railway applications according to EN 61373 for the color of the front resistance for railway applications according to EN 61373 for the color of the front resistance for railway applications according to EN 61373 for the front ring fine front ring fine front ring fine front ring front railway applications according to EN 61373 for railway applications accor	product line	Plastic, black, 22 mm
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  Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)  1 octuating angle olockwise  olock make BCS  key number E2  Front ring product component front ring design 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 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 1 000 000	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  Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)  number of switching positions  2 switch position for key distraction actuating angle e clockwise  90° lock make BCS key number E2  Front ring product component front ring design of the front ring material of the front ring plastic color of the front ring general technical data protection class IP of the terminal protection class IP of the terminal lP20 degree of protection NEMA rating shock resistance e according to IEC 60068-2-27 of or railway applications according to EN 61373 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	principle of operation of the actuating element	latching, 90° (10:30 h/13:30 h)
of the actuating element material of the actuating element shape of the actuating element couter diameter of the actuating element marking of the actuating element  Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)  number of switching positions  2 switch position for key distraction actuating angle oclockwise  90° lock make BCS key number E2  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 60068-2-27 of ror railway applications according to EN 61373  operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical  silver material of the actuating element Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lextification Number (CIN)  Pes design of the actuating element Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lextification Number (CIN)  Pes design of the actuating element Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)  Pes design of the text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)  Pes d	product extension optional light source	No
material of the actuating element shape of the actuating element outer diameter of the actuating element marking of the actuating element Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)  number of switching positions 2 switch position for key distraction actuating angle oclockwise 90° 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 60068-2-6 for railway applications according to EN 61373 operating frequency maximum nechanical service life (switching cycles) typical  present actuating element 29.5 mm Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol, can only be ordered via SIRIUS ACT configurator/Configuration lext or symbol dentification Number (CIN)  1	color	
shape of the actuating element outer diameter of the actuating element marking of the actuating element  marking of the actuating element  Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)  number of switching positions  2 switch position for key distraction actuating angle	of the actuating element	silver
outer diameter of the actuating element  marking of the actuating element  number of switching positions  switch position for key distraction  actuating angle  • clockwise  lock make  key number  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  nechanical service life (switching cycles) typical  Any inscription, text or symbol, can only be ordered via SIRIUS ACT  configuration, text or symbol, can only be ordered via SIRIUS ACT  configuration, text or symbol, can only be ordered via SIRIUS ACT  configuration, text or symbol, can only be ordered via SIRIUS ACT  configuration, text or symbol, can only be ordered via SIRIUS ACT  configuration, text or symbol, can only be ordered via SIRIUS ACT  configuration, text or symbol, can only be ordered via SIRIUS ACT  configuration, lext or symbol, can only be ordered via SIRIUS ACT  configuration lentification Number (CIN)  2  switch position lentification lentification lentification lentification lentification Number (CIN)  2  switch position lentification lentification lentification lentification Number (CIN)  2  switch position lentification Number (CIN)  2  switch position lentification lentification lentification lentification lentification lentification lentification Number (CIN)  2  switch position lentification Number (CIN)  2  switch position lentification Number (CIN)  2  switch position lentification Number (CIN)  90°	material of the actuating element	metal
marking of the actuating element  number of switching positions  switch position for key distraction  actuating angle  clockwise  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 60068-2-6  for railway applications according to EN 61373  operating frequency maximum  Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration, text or symbol, can only be ordered via SIRIUS ACT configuration, text or symbol, can only be ordered via SIRIUS ACT configuration, text or symbol, can only be ordered via SIRIUS ACT configuration lentification Number (CIN)  2  Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)  90°  10+  40+  40+  40+  40+  40+  40+  40+	shape of the actuating element	Key
number of switching positions 2 switch position for key distraction actuating angle • clockwise 90° lock make key number E2 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 • according to IEC 60068-2-27 • for railway applications according to EN 61373  operating frequency maximum  nechanical service life (switching cycles) typical  o held	outer diameter of the actuating element	29.5 mm
switch position for key distraction actuating angle	marking of the actuating element	
actuating angle	number of switching positions	2
oclockwise   90°	switch position for key distraction	O+I
lock make key number E2  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  operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical  1 29  Ves Standard Pros Standard Plastic	actuating angle	
key number  E2  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  operating frequency maximum  mechanical service life (switching cycles) typical  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	• clockwise	90°
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 of according to IEC 60068-2-27 of or railway applications according to EN 61373  operating frequency maximum product component front ring Standard plastic black Ple6, IP67, IP69(IP69K) IP20 IP20 IP20 IP20 IP20 IP20 IP20 IP20	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  lP20  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  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	key number	E2
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 equipment 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  vibration resistance of 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 mechanical service life (switching cycles) typical 1 000 000	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  category 1, Class B  vibration resistance  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	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 the 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 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	design of the front ring	Standard
protection class IP of the terminal lP20 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 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 1 000 000	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	of the terminal	IP20
<ul> <li>according to IEC 60068-2-27</li> <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>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>	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
for railway applications according to EN 61373      vibration resistance	shock resistance	
vibration resistance       10 500 Hz: 5g         • 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>1 000 000</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  mechanical service life (switching cycles) typical  1 000 000	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=3SU1000-5RF11-0AA0-Z Y19">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-5RF11-0AA0-Z Y19</a>

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-5RF11-0AA0-Z Y19

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-5RF11-0AA0-Z Y19

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=3SU1000-5RF11-0AA0-Z Y19&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1000-5RF11-0AA0-Z Y19&lang=en</a>

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