## **SIEMENS**

## **Data sheet**



Key-operated switch IKON, 22 mm, round, plastic with metal front ring, lock number 360012K1, with 2 keys, 3 switch positions I>O<II, momentary contact type, actuating angle 2x45°, 10:30h/12h/13:30h, key removal O, with laser labeling, lower case

product type designation  design of the product product type designation product type designation 3SU1 product type designation 3SU1 product type designation 3SU1 product type designation 3SU1950-0FR80-0AAQ  Actuator  principle of operation of the actuating element product extension optional light source color  of the actuating element material of the actuating element material of the actuating element marking of the actuating element actuating angle clockwise actuating angle clockwise shape of the nort ring design of the front ring front ring product component front ring design of the front ring design of the front ring design of the front ring formaticl data  protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-27 for rallway applications according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B invalidation according to EN 61373 category 1, Class B	product brand name	SIRIUS ACT
product type designation product line Plastic with metal front ring, matt, 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 material of the actuating element material of the actuating element material of the actuating element marking of the actuating element marking of the actuating plement marking of the actuating plement marking of the actuating positions switch position for key distraction actuating angle clockwise clockwise anticlockwise anticlockwi	product designation	Key-operated switches
product line manufacturer's article number of included key 3SU1950-DFR80-DAAO Actuator  principle of operation of the actuating element product extension optional light source color	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 of the actuating element material of the actuating element shape of the actuating element shape of the actuating element shape of the actuating element Any inscription, text in lower case number of switching positions switch position for key distraction actuating angle clockwise anticlockwise anticlockwise look make key number Front ring product component front ring design of the front ring color of the front ring sand gray  General technical date protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 operating frequency maximum  momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides No momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides No momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides No momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides No momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides No momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides No momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides No momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides No verture of the actuating element sliver metal short Any inscription, text in lower case No position for key discription, text in lower case No position for key discription, text in lower case No position for key discription, text in lower case No position for key discription, text in lower case No position for key discription, text in lower case No position for key discription, text in lower case No position for actuating element Any inscription, text in lower case Neve Joseph Callerian Metal Any inscription, text in lower case Neve Joseph Callerian No position for actuating element Neve Joseph Callerian Neve Joseph Callerian No position for actuating lement No	product type designation	3SU1
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 shape of the actuating element wouter diameter 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 shape of the actuating element number of switching positions switch position for key distraction ocatuating angle clockwise shape of the constance actuating angle clockwise shape of the front ring design of the front ring material of the front ring design of the front ring shape 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  metal silver s	product line	Plastic with metal front ring, matt, 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 Any inscription, text in lower case number of switching positions switch position for key distraction actuating angle clockwise anticlockwise anticlockwise lock make key lock make design of the front ring material of the front ring sand gray  General technical data protection class IP of the terminal shock resistance according to IEC 60068-2-6 of ra railway applications according to EN 61373 operating frequency maximum silver momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides No	manufacturer's article number of included key	3SU1950-0FR80-0AA0
product extension optional light source color	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 number of switching positions 3 switch position for key distraction actuating angle • clockwise • anticlockwise • anticlockwise iock make icon 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 60068-2-27 • for railway applications according to EN 61373 operating frequency maximum  silver metal silver metal silver metal selement selem	principle of operation of the actuating element	momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides
of the actuating element     material of the actuating element     shape of the actuating element     wouter diameter of the actuating element     Any inscription, text in lower case     number of switching positions     switch position for key distraction     actuating angle     olockwise     anticlockwise     anticlockwise     iok make     iok mak	product extension optional light source	No
material of the actuating element shape of the actuating element shape of the actuating element shape of the actuating element marking of the actuating element number of switching positions switch position for key distraction octuating angle clockwise anticlockwise anticlockwise iock make lCON key number solotex front ring product component front ring groduct component front ring standard material of the front ring material of the front ring sand gray  General technical data  protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-27 of railway applications according to EN 61373 operating frequency maximum  ematerial front in service in the service	color	
shape of the actuating element outer diameter of the actuating element marking of the actuating element number of switching positions  switch position for key distraction octuating angle octockwise for anticlockwise onticlockwise other in the front ring product component front ring product component front ring design of the front ring color of the front ring sand gray  General technical data protection class IP of the terminal degree of protection NEMA rating shock resistance occording to IEC 60068-2-6 of or railway applications according to EN 61373 operating frequency maximum  1 800 1/h  Occurrent Any inscription, text in lower case 10 Any inscription, text in lower case 10 Any inscription, text in lower case 10 CON Attributer case 11 Any inscription, text in lower case 12 Any inscription, text in lower case 12 Any inscription, text in lower case 12 OC Attributer case 11 CON Attributer case 12 Any inscription, text in lower case 13 Any inscription, text in lower case 14 CON Attributer case 14 So  Octor 16 Any inscription, text in lower case 18 Any inscription, text in lower cas	<ul> <li>of the actuating element</li> </ul>	silver
outer diameter of the actuating element marking of the actuating element number of switching positions switch position for key distraction octockwise cockwise anticlockwise octockwise anticlockwise lock make lock make lock make lock mymber sedesign of the front ring material of the front ring material of the front ring sand gray  General technical data  protection class IP of the terminal degree of protection NEMA rating shock resistance according to IEC 60068-2-7 of railway applications according to EN 61373 operating frequency maximum  1 800 1/h  Any inscription, text in lower case  Any inscription, text in lower case  1 CON Any inscription, text in lower case  Any inscription, text in lower case  1 CON Any inscription, text in lower case  1 CON As in lower case  1 Con case  1 CON As in lower case  1 Con case  1 CON As in lower case  1 Con case  1 CON As in lower case  1 Con case  1 Con case  1 CON As in lower case  1 Con case  1 Con case  1 Con case 1 Con c	material of the actuating element	metal
marking of the actuating element number of switching positions switch position for key distraction of actuating angle of clockwise anticlockwise anticlockwise tock make lock make lock make sey number solote tring product component front ring group the front ring material of the front ring material of the front ring color of the front ring sand gray  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  Any inscription, text in lower case  3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	shape of the actuating element	Key
number of switching positions switch position for key distraction o actuating angle	outer diameter of the actuating element	29.5 mm
switch position for key distraction  actuating angle  clockwise anticlockwise 45° lock make ICON key number 360012K1  Front ring product component front ring design of the front ring material of the front ring color of the front ring sand gray  General technical data protection class IP of the terminal legree of protection NEMA rating shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 operating frequency maximum  olor 1800  olor 1800  deference of the front ring category 1, Class B operating frequency maximum  olor 1800  deference of the front ring clock make deference of the front ring standard Metal, matt sand gray  General technical data protection class IP of the terminal legence of protection NEMA rating shock resistance of according to IEC 60068-2-27 category 1, Class B operating frequency maximum  olor 1800  olor 1800  olor 1800  clockwise deference description deference de	marking of the actuating element	Any inscription, text in lower case
actuating angle	number of switching positions	3
e clockwise e anticlockwise 45° lock make lCON key number 360012K1  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 e according to IEC 60068-2-27 e for railway applications according to EN 61373 operating frequency maximum  1 800 1/h  lCON key number 45° 45° 45° 460° 46001  1600	switch position for key distraction	0
onticlockwise     lock make     lock make     lock make     lock make     lock make     lock make     loch     key number     360012K1  Front ring  product component front ring     Standard  material of the front ring     material of the front ring     material of the front ring     sand gray  General technical data  protection class IP     of the terminal     lecond degree of protection NEMA rating shock resistance     one according to IEC 60068-2-27     one railway applications according to EN 61373  vibration resistance     one according to IEC 60068-2-6     one railway applications according to EN 61373  operating frequency maximum  1 800 1/h   Ves  Metal, matt  Standard	actuating angle	
lock make key number 360012K1  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 lP20 degree of protection NEMA rating shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 operating frequency maximum  ICON 360012K1  Front ring Yes Wetal, matt sand gray  IP66, IP67, IP69(IP69K) IP20 IP66, IP67, IP69(IP69K) IP20 IP20 IP20 IP20 IP20 IP20 IP20 IP20	• clockwise	45°
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 60068-2-27  of or railway applications according to EN 61373  operating frequency maximum  Yes  Metal, matt  Standard  Metal, matt  sand gray  IP66, IP67, IP69(IP69K)  IP20  IP20  IP66, IP67, IP69(IP69K)  IP20  Category 1, Class B  Vibration resistance  according to IEC 60068-2-6  of or railway applications according to EN 61373  operating frequency maximum  1 800 1/h	anticlockwise	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  lP20  degree of protection NEMA rating  shock resistance  of railway applications according to EN 61373  vibration resistance  of railway applications according to EN 61373  category 1, Class B  operating frequency maximum  yes  Yes  Metal, matt  Standard  Metal, matt  PR66, IP67, IP69(IP69K)  IP20  IP20  IP20  Sinusoidal half-wave 15g / 11 ms  Category 1, Class B  operating frequency maximum  1 800 1/h	lock make	ICON
product component front ring  design of the front ring  material of the front ring  Color of the front ring  Standard  Metal, matt  sand gray  General technical data  protection class IP  of the terminal  lP20  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  operating frequency maximum  1 800 1/h	key number	360012K1
design of the front ring material of the front ring  Metal, matt color of the front ring  General technical data  protection class IP of the terminal lP20  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 or railway applications according to EN 61373  category 1, Class B  operating frequency maximum  Standard Metal, matt Standard Metal, matt Standard Stand	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  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  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	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  of tor 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  of railway applications according to EN 61373  category 1, Class B  operating frequency maximum  1 800 1/h	design of the front ring	Standard
protection class IP	material of the front ring	Metal, matt
protection class IP of the terminal lP20  degree of protection NEMA rating shock resistance of according to IEC 60068-2-27 for 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	color of the front ring	sand gray
● 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	General technical data	
degree of protection NEMA rating  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	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	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> <li>operating frequency maximum 1 800 1/h</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>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>Operating frequency maximum</li> <li>10 500 Hz: 5g</li> <li>Category 1, Class B</li> <li>Operating frequency maximum</li> <li>1 800 1/h</li> </ul>	shock resistance	
vibration resistance	<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>1 800 1/h</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> </ul>	vibration resistance	
operating frequency maximum 1 800 1/h	<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
1 0 1 7	for railway applications according to EN 61373	Category 1, Class B
mechanical service life (switching cycles) typical 1 000 000	operating frequency maximum	1 800 1/h
	mechanical service life (switching cycles) typical	1 000 000

	0
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	56.2 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=3SU1030-5XM01-0AA0-Z Y12

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1030-5XM01-0AA0-Z Y12

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1030-5XM01-0AA0-Z Y12

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=3SU1030-5XM01-0AA0-ZY12&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1030-5XM01-0AA0-ZY12&lang=en</a>

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