## SIEMENS

## Data sheet

## 3SU1030-5BL31-0AA0-Z Y10



key-operated switch Siemens, 22 mm, round, plastic with metal front ring, lock number SSG10, with 2 keys, 3 switch positions I-O-II, latching, actuating angle  $2x45^{\circ}$ , 10:30h/12h/13:30h, key removal II, with laser labeling, upper case and lower case, always upper case at beginning of line

product brand name         SIRUS ACT           product designation         Key-operated switches           design of the product         Actualing/signaling element           product type designation         3SU1           product line         Plastic with metal front ring, matt, 22 mm           manufacturer's article number of included key         3SU1950-07P80-0AAQ           Actuation         principle of operation of the actuating element           principle of operation optional light source         No           color         of the actuating element           e of the actuating element         metal           shape of the actuating element         Key           outer diameter of the actuating element         Ary inscription, text in upper/lower case, every line begins with upper case letter           number of switching positions         3           switch position for key distraction         II           actuating angle         45°           e actockwise         45°           e anticlockwise         45°           foot make         Siemens           key number         Standard           material of the front ring         Yes           design of the front ring         Siandard           material of the front ring         Siandard			
design of the product       Actuating/signaling element         product type designation       3SU1         product line       Plastic with metal front ring, matt, 22 mm         manufacturer's article number of included key       2SU1950-0FP80-0AA0         Actuator       principle of operation of the actuating element         principle of operation of the actuating element       latching, 2x45° (10:30 h/12 h/13:30 h)         product extension optional light source       No         color       of the actuating element         material of the actuating element       metal         shape of the actuating element       ZS.5 mm         marking of the actuating element       29.5 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         number of switching positions       3         switch position for key distraction       II         actuating angle       45°         • clockwise       45°         • lock make       Siemens         key number       SSG10         product component front ring       Yes         general technical data       Protection class IP         protection class IP       IP68(P67, IP69(IP69K))         • of the terminal       IP62	product brand name	SIRIUS ACT	
product type designation         3SU1           product line         Plastic with metal front ring, matt, 22 mm           manufacturer's article number of included key         3SU1950-0FP80-0AAQ           Actuator         principle of operation of the actuating element           principle of operation of the actuating element         latching, 2x45° (10:30 h/12 h/13:30 h)           product extension optional light source         No           color         • of the actuating element           material of the actuating element         metal           shape of the actuating element         Key           outer diameter of the actuating element         29.5 mm           marking 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°           • anticlockwise         45°           easilise of the front ring         Yes           general technical data         Silon of the front ring           protection class IP         ipot           off the terminal         IP20           design of the front ring         sand gray           General technic	product designation	Key-operated switches	
product line         Plastic with metal front ring, matt, 22 mm           manufacturer's article number of included key         32U1950-0FP80-0AA0           Actuator         principle of operation of the actuating element         latching, 2x45° (10:30 h/12 h/13:30 h)           principle of operation of the actuating element         latching, 2x45° (10:30 h/12 h/13:30 h)           product extension optional light source         No           color         of the actuating element           material of the actuating element         silver           material of the actuating element         Key           outer diameter of the actuating element         29.5 mm           marking of the actuating element         Any inscription, text in upper/lower case, every line begins with upper case letter           number of switching positions         3           switch position for key distraction         II           actuating angle         45°           • olockwise         45°           lock make         Siemens           key number         SGG10           Front ring         Yes           design of the front ring         Standard           material of the front ring         Sand gray           Goneral technical data         IP20           protection class IP         IP66, IP67, IP69(IP69K)	design of the product	Actuating/signaling element	
manufacturer's article number of included key       3SU1950-0FP80-0AA0         Actuator       principle of operation of the actuating element         principle of operation of the actuating element       latching, 2x45° (10:30 h/12 h/13:30 h)         product extension optional light source       No         color       of the actuating element         material of the actuating element       metal         shape of the actuating element       Key         outer diameter of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         number of switching positions       3         switch position for key distraction       II         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         • actockwise       45°         iock make       Siemens         key number       SSG10         Front ring       Yes         design of the front ring       Metal, matt         color of the front ring       Sand gray         General technical data       IP20         protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       according to IEC 60068-2-67         of or railway applications according to EN 61373       Cat	product type designation	3SU1	
Actuator       principle of operation of the actuating element       latching, 2x45° (10:30 h/12 h/13:30 h)         product extension optional light source       No         color       • of the actuating element         material of the actuating element       metal         shape of the actuating element       Key         outer diameter of the actuating element       22.5 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         number of switching positions       3         switch position for key distraction       II         actuating angle       45°         • clockwise       45°         • clockwise       45°         • clockwise       45°         • lock make       Siemens         key number       SSG10         Front ring       Yes         design of the front ring       Standard         material of the front ring       Standard         product component front ring       Metal, matt         color of the front ring       IP20         degree of protection NEMA rating       IP20         idegree of protection NEMA rating       IP20         idegree of protection NEMA rating       Category 1, Class B <td< th=""><th>product line</th><th>Plastic with metal front ring, matt, 22 mm</th></td<>	product line	Plastic with metal front ring, matt, 22 mm	
principle of operation of the actuating element         latching, 2x45° (10:30 h/12 h/13:30 h)           product extension optional light source         No           color         silver           material of the actuating element         silver           material of the actuating element         Key           outer diameter of the actuating element         Avy inscription, text in upper/lower case, every line begins with upper case letter           number of switching positions         3           switch position for key distraction         II           actuating angle         45°           • clockwise         45°           • anticlockwise         Silments           product component front ring         Yes           design of the front ring         Standard           material of the front ring         Standard           material of the front ring         IP60, IP67, IP69(IP69K)           • of the terminal         IP20           deered technical data         IP20           off the terminal         IP20           • dor ding to IEC 60068-2-27         sinusoidal half-wave 15g / 11 ms           • for railway applications according to EN 61373         Category 1, Class B	manufacturer's article number of included key	<u>3SU1950-0FP80-0AA0</u>	
product extension optional light source         No           color         silver           material of the actuating element         metal           shape of the actuating element         metal           shape of the actuating element         29.5 mm           marking of the actuating element         Any inscription, text in upper/lower case, every line begins with upper case letter           number of switching positions         3           switch position for key distraction         II           actuating angle         45°           e lockwise         45°           i ockwise         45°           e anticlockwise         Siemens           key number         SSG10           Front ring         Yes           design of the front ring         Standard           material of the front ring         Standard           color of the front ring         Standard           general technical data         IP20           protection class IP         IP66, IP67, IP69(IP69K)           e of the terminal         IP20           degree of protection NEMA rating         Sinusoidal half-wave 15g / 11 ms           e coording to IEC 60068-2-27         sinusoidal half-wave 15g / 11 ms           e for railway applications according to EN 61373	Actuator		
color       • of the actuating element       silver         material of the actuating element       metal         shape of the actuating element       Key         outer diameter of the actuating element       29.5 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         number of switching positions       3         switch position for key distraction       II         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         • anticlockwise       45°         • clockwise       45°         • design of the front ring       Yes         design of the front ring       Standard         material of the front ring       Standard         material of the front ring       sand gray         General technical data       IP20         protection class IP       IP20, IP30(IP69K)         • of the terminal       IP20         • degree	principle of operation of the actuating element	latching, 2x45° (10:30 h/12 h/13:30 h)	
• of the actuating element       silver         material of the actuating element       metal         shape of the actuating element       Key         outer diameter of the actuating element       29.5 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         number of switching positions       3         switch position for key distraction       II         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         lock make       Siemens         key number       SSG10         Front ring       Yes         product component front ring       Yes         design of the front ring       Standard         material of the front ring       Sand gray         General technical data       IP20         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       Category 1, Class B         vibration resistance       • for railway applications according to EN 61373	product extension optional light source	No	
material of the actuating element       metal         shape of the actuating element       Key         outer diameter of the actuating element       29.5 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         number of switching positions       3         switch position for key distraction       II         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         Iock make       Siemens         key number       SSG10         Front ring       Yes         gesign of the front ring       Standard         material of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       IP20         gere of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         e for railway applications according to EN 61373       Category 1, Class B	color		
shape of the actuating element       Key         outer diameter of the actuating element       29.5 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         number of switching positions       3         switch position for key distraction       II         actuating angle       45°         • clockwise       45°         • acticlockwise       45°         lock make       Siemens         key number       SSG10         Front ring       Yes         general tooch ring       Yes         design of the front ring       Standard         material of the front ring       Standard         general toochnical 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       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	<ul> <li>of the actuating element</li> </ul>	silver	
outer diameter of the actuating element       29.5 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         number of switching positions       3         switch position for key distraction       II         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         lock make       Siemens         key number       SSG10         Front ring       Yes         design of the front ring       Standard         material of the front ring       Metal, matt         color of the front ring       sand gray         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       sinusoidal half-wave 15g / 11 ms         • 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       10 500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B	material of the actuating element	metal	
marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         number of switching positions       3         switch position for key distraction       II         actuating angle       •         • clockwise       45°         • anticlockwise       45°         lock make       Siemens         key number       SSG10         Front ring       Yes         product component front ring       Yes         design of the front ring       Standard         material of the front ring       Metal, matt         color of the front ring       IP66, IP67, IP69(IP69K)         • of the terminal       IP20         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         • according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms         • for railway applications according to EN 61373       Category 1, Class B	shape of the actuating element	Кеу	
number of switching positions     3       switch position for key distraction     II       actuating angle     45°       • clockwise     45°       • anticlockwise     45°       Iock make     Siemens       key number     SSG10       Front ring     Yes       product component front ring     Yes       design of the front ring     Standard       material of the front ring     Metal, matt       color of the front ring     Sand gray       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     sinusoidal half-wave 15g / 11 ms       • according to IEC 60068-2-27     sinusoidal half-wave 15g / 11 ms       • for railway applications according to EN 61373     Category 1, Class B	outer diameter of the actuating element	29.5 mm	
switch position for key distraction       II         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         lock make       Siemens         key number       SSG10         Front ring       Yes         design of the front ring       Yes         design of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       IP66, IP67, IP69(IP69K)         • of the terminal       IP20         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         • according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms         • for railway applications according to EN 61373       Category 1, Class B	marking of the actuating element		
actuating angle       45°         • clockwise       45°         • anticlockwise       45°         lock make       Siemens         key number       SSG10         Front ring       Yes         product component front ring       Yes         design of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       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         • 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	number of switching positions	3	
• clockwise       45°         • anticlockwise       45°         lock make       Siemens         key number       SSG10         Front ring       Yes         product component front ring       Yes         design of the front ring       Standard         material of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       IP66, IP67, IP69(IP69K)         of the terminal       IP20         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B	switch position for key distraction	II	
• anticlockwise       45°         lock make       Siemens         key number       SSG10         Front ring       Yes         design of the front ring       Standard         material of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       IP66, IP67, IP69(IP69K)         • of the terminal       IP20         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B	actuating angle		
lock makeSiemenskey numberSSG10Front ringYesproduct component front ringYesdesign of the front ringStandardmaterial of the front ringMetal, mattcolor of the front ringsand grayGeneral technical dataIP66, IP67, IP69(IP69K)• of the terminalIP20degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B	clockwise	45°	
key number       SSG10         Front ring       Yes         product component front ring       Yes         design of the front ring       Standard         material of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       IP66, IP67, IP69(IP69K)         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       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	anticlockwise	45°	
Front ring       Yes         design of the front ring       Standard         material of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       IP66, IP67, IP69(IP69K)         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       sinusoidal half-wave 15g / 11 ms         • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B	lock make	Siemens	
product component front ringYesdesign of the front ringStandardmaterial of the front ringMetal, mattcolor of the front ringsand grayGeneral technical dataprotection class IPIP66, IP67, IP69(IP69K)• of the terminalIP20degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B	key number	SSG10	
design of the front ring       Standard         material of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       IP66, IP67, IP69(IP69K)         of the terminal       IP20         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         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	Front ring		
material of the front ringMetal, mattcolor of the front ringsand grayGeneral technical dataprotection class IPIP66, IP67, IP69(IP69K)• of the terminalIP20degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B	product component front ring	Yes	
color of the front ringsand grayGeneral technical dataIP66, IP67, IP69(IP69K)of the terminalIP20degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceInstanceof the railway applications according to EN 61373Category 1, Class Bvibration resistanceInstanceof railway applications according to EN 61373Category 1, Class Bcondition resistanceInstanceof railway applications according to EN 61373Category 1, Class Bvibration resistanceInstanceof railway applications according to EN 61373Category 1, Class B	design of the front ring	Standard	
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         • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       • according to IEC 60068-2-6         • according to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B	material of the front ring	Metal, matt	
protection class IPIP66, IP67, IP69(IP69K)• of the terminalIP20degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance	color of the front ring	sand gray	
• of the terminal       IP20         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance <ul> <li>according to IEC 60068-2-27</li> <li>sinusoidal half-wave 15g / 11 ms</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> </ul> vibration resistance <ul> <li>according to IEC 60068-2-6</li> <li> 500 Hz: 5g</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> </ul>	General technical data		
degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B	protection class IP	IP66, IP67, IP69(IP69K)	
shock resistance       isinusoidal half-wave 15g / 11 ms         • 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       isinusoidal half-wave 15g / 11 ms         • 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	
e 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     e 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	shock resistance		
vibration resistance <ul> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> </ul>	<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms	
according to IEC 60068-2-6 10 500 Hz: 5g     for railway applications according to EN 61373 Category 1, Class B	<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	vibration resistance		
	<ul> <li>according to IEC 60068-2-6</li> </ul>	10 500 Hz: 5g	
operating frequency maximum 1 800 1/h	<ul> <li>for railway applications according to EN 61373</li> </ul>	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	
Safety related data		
B10 value with high demand rate according to SN 31920	300 000	
proportion of dangerous failures		
<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=3SU1030-5BL31-0AA0-Z Y10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1030-5BL31-0AA0-Z Y10		
http://support.automation.siemens.com/WW/CAXorder/defau Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3SU1030-	FAQs,)	

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1030-5BL31-0AA0-Z Y10&lang=en

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