## SIEMENS

## Data sheet

## 3SU1000-1HB50-0AA0-Z Y13



Mushroom pushbutton, 22 mm, round, plastic, blue, 40 mm, positive latching, acc. to EN ISO 13850, rotate-to-unlatch, with laser labeling, symbol number according to ISO 7000 or IEC 60417

product brand name         SIRIUS ACT           product designation         Mushroom pushbuttons           design of the product         Actuating/signaling element           product line         Plastic, black, 22 mm           Enclosure         number of command points           number of command points         1           Actuator         design of the actuating element           product extension optional light source         No           color of the actuating element         blue           material of the actuating element         plastic           shape of the actuating element         plastic           shape of the actuating element         plastic           shape of the actuating element         plastic           outer diameter of the actuating element         round           outer diameter of the actuating element         customized labeling, graphical symbols acc. to ISO7000 and IEC60417           type of unlocking device         rotate-to-unlatch mechanism           number of switching positions         2           product function         vithout           General technical data         mode           product function         No           e EMERGENCY OFF function         No           e according to IEC 60068-2-27         sinusoidal half-wave 15g /			
design of the product       Actuating/signaling element         product type designation       3SU1         product line       Plastic, black, 22 mm         number of command points       1         Actuator       design of the actuating element         product extension optional light source       No         color of the actuating element       blue         matrial of the actuating element       plastic         shape of the actuating element       blue         matrial of the actuating element       plastic         shape of the actuating element       color of the actuating element         outer diameter of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       without         general technical data       product function         e EMERGENCY OFF function       No         e EMERGENCY STOP function       No         e EMERGENCY STOP function       No         genreal technical data       protection nERA rating         protection lisc BC 0068-2-27       sinusoidal half-wave 15g / 11 ms         e torraliway applications according to EN 61373       category 1, Class B	product brand name	SIRIUS ACT	
product type designation         3SU1           product line         Plastic, black, 22 mm           Enclosure         1           Actuator         design of the actuating element           principle of operation of the actuating element         latching           principle of operation of the actuating element         blue           material of the actuating element         plastic           shape of the actuating element         plastic           shape of the actuating element         plastic           shape of the actuating element         cound           outer diameter of the actuating element         plastic           shape of the actuating element         cound           outer diameter of the actuating element         cound           type of unlocking device         rotate-to-unlatch mechanism           number of switching positions         2           front ring         No           design of the front ring         No           design of the front ring         No           eGeneral technical data         product function           product function         No           eEMERGENCY OFF function         No           egree of protection NEMA rating         1, 2, 3, 3R, 4, 4X, 12, 13           shock resistance         sinus	product designation	Mushroom pushbuttons	
Product line       Plastic, black, 22 mm         number of command points       1         Actuator       design of the actuating element         principle of operation of the actuating element       positive latching         principle of operation of the actuating element       platic         product extension optional light source       No         color of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       40 mm         marking of the actuating element       customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       round         number of switching positions       2         Front ring       No         general technical data       without         General technical data       product function         e EMERGENCY OFF function       No         e EMERGENCY STOP function       No         protection class IP       1.2.3.3R, 4.4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         e according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms         e for railway applications according to EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g <th>design of the product</th> <th>Actuating/signaling element</th>	design of the product	Actuating/signaling element	
Enclosure       1         Actuator       positive latching         design of the actuating element       positive latching         principle of operation of the actuating element       latching         product extension optional light source       No         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       quadratic actuating element         outer diameter of the actuating element       40 mm         marking of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       without         General technical data       product function         e EMERGENCY OFF function       No         e EMERGENCY OFF function       No         e EMERGENCY OFF function       No         e for railway applications according to EN 61373       category 1, Class B         vibration resistance       according to IEC 60068-2-6         e according to IEC 60068-2-6       10 500 Hz: 5g	product type designation	3SU1	
number of command points       1         Actuator       positive latching         design of the actuating element       positive latching         principle of operation of the actuating element       latching         product extension optional light source       No         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       40 mm         marking of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         design of the front ring       without         General technical data       mode         product function       No         e EMERGENCY OFF function       No         e EMERGENCY STOP function       No         e according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms         e for railway applications according to EN 61373       Category 1, Class B         vibration resistance       e according to IEC 60068-2-6       10 500 Hz: 5g	product line	Plastic, black, 22 mm	
Actuator       design of the actuating element       positive latching         principle of operation of the actuating element       latching         product extension optional light source       No         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       40 mm         marking of the actuating element       customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         design of the front ring       without         General technical data       modulate         product function       No         • EMERGENCY OFF function       No         • EMERGENCY STOP function       No         egree 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       • according to IEC 60068-2-6       10 500 Hz; 5g </th <th colspan="3">Enclosure</th>	Enclosure		
design of the actuating element       positive latching         principle of operation of the actuating element       latching         product extension optional light source       No         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       40 mm         marking of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         design of the front ring       No         design of the front ring       No         eGeneral technical data       product function         protect function       No         e EMERGENCY OFF function       No         e EMERGENCY STOP function       No         protection class IP       IP66, IP67, IP69(IP69K)         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         e according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms         e for railway applications according to EN 61373       Category 1, Class B<	number of command points	1	
principle of operation of the actuating element       latching         product extension optional light source       No         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       40 mm         marking of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         general technical data       without         General technical data       model         product function       No         • EMERGENCY OFF function       No         • EMERGENCY STOP function       No         vibration 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       according to IEC 60068-2-6       10 500 Hz: 5g	Actuator		
product extension optional light source       No         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       40 mm         marking of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         general technical data       without         General technical data       No         product function       No         e EMERGENCY OFF function       No         e EMERGENCY STOP function       No         general technical as IP       IP66, IP67, IP69(IP69K)         degree 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         vibration resistance       according to IEC 60068-2-26       10 500 Hz: 5g	design of the actuating element	positive latching	
color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       40 mm         marking of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         design of the front ring       without         General technical data       moduct function         product function       No         • EMERGENCY OFF function       No         • EMERGENCY STOP function       No         gere of protection NEMA rating       1, 2, 3, 3R, 4, Xz, 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       • according to IEC 60068-2-6       10 500 Hz: 5g	principle of operation of the actuating element	latching	
material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       40 mm         marking of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         general technical data       without         General technical data       model (Inction)         product function       No         • EMERGENCY OFF function       No         • EMERGENCY STOP function       No         gene of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       according to IEC 60068-2-27         • according to IEC 60068-2-6       10 500 Hz: 5g	product extension optional light source	No	
shape of the actuating element       round         outer diameter of the actuating element       40 mm         marking of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         product component front ring       No         design of the front ring       without         General technical data          product function       No         • EMERGENCY OFF function       No         protection class IP       IP66, IP67, IP69(IP69K)         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	color of the actuating element	blue	
outer diameter of the actuating element40 mmmarking of the actuating elementCustomized labeling, graphical symbols acc. to ISO7000 and IEC60417type of unlocking devicerotate-to-unlatch mechanismnumber of switching positions2Front ringNoproduct component front ringNodesign of the front ringNogeneral technical dataproduct functionNo• EMERGENCY OFF functionNo• EMERGENCY STOP functionNoprotection class IPIP66, IP67, IP69(IP69K)degree 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	material of the actuating element	plastic	
marking of the actuating element       Customized labeling, graphical symbols acc. to ISO7000 and IEC60417         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         gengen of the front ring       No         design of the front ring       without         General technical data       modulate         product function       No         e EMERGENCY OFF function       No         protection class IP       IP66, IP67, IP69(IP69K)         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       according to IEC 60068-2-27         e for railway applications according to EN 61373       Category 1, Class B         vibration resistance       according to IEC 60068-2-6         e according to IEC 60068-2-6       10 500 Hz: 5g	shape of the actuating element	round	
type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         product component front ring       No         design of the front ring       without         General technical data	outer diameter of the actuating element	40 mm	
number of switching positions       2         Front ring       No         product component front ring       No         design of the front ring       without         General technical data       mumber of switching positions         product function       No         • EMERGENCY OFF function       No         • EMERGENCY STOP function       No         protection class IP       IP66, IP67, IP69(IP69K)         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       inusoidal half-wave 15g / 11 ms         • according to IEC 60068-2-6       10 500 Hz: 5g	marking of the actuating element	Customized labeling, graphical symbols acc. to ISO7000 and IEC60417	
Front ring       No         product component front ring       No         design of the front ring       without         General technical data	type of unlocking device	rotate-to-unlatch mechanism	
product component front ringNodesign of the front ringwithoutGeneral technical dataproduct function• EMERGENCY OFF function• EMERGENCY STOP functionProtection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA ratingshock resistance• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373vibration resistance• according to IEC 60068-2-610 500 Hz: 5g	number of switching positions	2	
design of the front ring       without         General technical data          product function          • EMERGENCY OFF function       No         • EMERGENCY STOP function       No         protection class IP       IP66, IP67, IP69(IP69K)         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	Front ring		
General technical data         product function       No         • EMERGENCY OFF function       No         • EMERGENCY STOP function       No         protection class IP       IP66, IP67, IP69(IP69K)         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	product component front ring	No	
product functionNo• EMERGENCY OFF functionNo• EMERGENCY STOP functionNoprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• according to IEC 60068-2-27• for railway applications according to EN 61373Category 1, Class Bvibration resistance• according to IEC 60068-2-6• according to IEC 60068-2-610 500 Hz: 5g	design of the front ring	without	
• EMERGENCY OFF functionNo• EMERGENCY STOP functionNoprotection class IPIP66, IP67, IP69(IP69K)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	General technical data		
• EMERGENCY STOP functionNoprotection class IPIP66, IP67, IP69(IP69K)degree 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	product function		
protection class IPIP66, IP67, IP69(IP69K)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	<ul> <li>EMERGENCY OFF function</li> </ul>	No	
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	EMERGENCY STOP function	No	
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>10 500 Hz: 5g</li> </ul>	protection class IP	IP66, IP67, IP69(IP69K)	
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	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     according to IEC 60068-2-6 10 500 Hz: 5g	shock resistance		
vibration resistance         • according to IEC 60068-2-6         10 500 Hz: 5g	<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	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B	
	vibration resistance		
	<ul> <li>according to IEC 60068-2-6</li> </ul>	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	
operating frequency maximum 600 1/h	operating frequency maximum	600 1/h	
mechanical service life (switching cycles) typical 300 000	mechanical service life (switching cycles) typical	300 000	
reference code according to IEC 81346-2 S	reference code according to IEC 81346-2	S	
Substance Prohibitance (Date) 10/01/2014	Substance Prohibitance (Date)	10/01/2014	
Safety related data			
B10 value with high demand rate according to SN 31920 100 000	B10 value with high demand rate according to SN 31920	100 000	

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	40 mm
width	40 mm
shape of the installation opening	round
mounting diameter	22.3 mm
positive tolerance of installation diameter	0.4 mm
mounting height	45.3 mm
installation width	40 mm
installation depth	26.3 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	
Cax online generator	

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-1HB50-0AA0-Z Y13

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-1HB50-0AA0-Z Y13

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1000-1HB50-0AA0-Z Y13&lang=en

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