## SIEMENS

## Data sheet

## 3SU1001-1GB20-0AA0-Z Y19



EMERGENCY STOP mushroom pushbutton, illuminable, 22 mm, round, plastic, red, 30 mm, positive latching, acc. to EN ISO 13850, rotate-tounlatch, with laser labeling, inscription or symbol Customer-specific selection with SIRIUS ACT configurator (CIN)

product brand name         SIRUS ACT           product design attion         EMERGENCY STOP mushroom pushbuttons           design of the product         Actuating/signaling element           product type designation         3SU1           product line         Plastic, black, 22 mm           functions         1           Actuating         actuating signaling element           principle of operation of the actuating element         positive latching           principle of operation of the actuating element         latching           principle of operation of the actuating element         red           e light source         Yes           color         contact module         Yes           color         red         material of the actuating element         plastic           shape of the actuating element         round         any inscription, text or symbol, can only be ordered via SIRIUS ACT           congurator/Configuration Identification Number (CIN)         rotate-to-unlatch mechanism         any inscription, text or symbol, can only be ordered via SIRIUS ACT           type of unlocking device         rotate-to-unlatch mechanism         any inscription, text or symbol, can only be ordered via SIRIUS ACT           type of unlocking device         rotate-to-unlatch mechanism         any inscription identification Number (CIN)           type of			
design of the product         Actualing/signaling element           product type designation         3SU1           product line         Plastic, black, 22 mm           Enclosure         number of command points           1         Actuator           design of the actuating element         positive latching           principic of operation of the actuating element         latching           ight source         Yes           • of the actuating element         red           material of the actuating element         plastic           shape of the actuating element         plastic           shape of the actuating element         red           material of the actuating element         round           outer diameter of the actuating element         round           outer diameter of the actuating element         any inscription, text or symbol, can only be ordered via SIRIUS ACT           configurator/Configuration Identification Number (CIN)         type of unlocking device           number of switching positions         2           Front ring         No           General technical data         Yes           product function         Yes           • EMERGENCY OFF function         Yes           • EMERGENCY OFF function         Yes	product brand name	SIRIUS ACT	
product type designation         3SU1           product line         Plastic, black, 22 mm           Enclosure         number of command points         1           Actuator         design of the actuating element         positive latching           principle of operation of the actuating element         latching           product extension optional         Yes           • light source         Yes           • contact module         Yes           color         of the actuating element           material of the actuating element         plastic           shape of the actuating element         red           material of the actuating element         red           outer diameter of the actuating element         Any inscription, text or symbol, can only be ordered via SIRIUS ACT           configurator/Configuration Identification Number (CIN)         type of unlocking device           rotate-to-unlatch mechanism         number of switching positions           2         Product function         Yes           e. EMERGENCY OFF function         Yes           e. To IDE Condes-2-27         Sinusoidal half-wave 50g / 11 ms	product designation	EMERGENCY STOP mushroom pushbuttons	
product line         Plastic, black, 22 mm           Enclosure         number of command points         1           Actuator         design of the actuating element         positive latching           principle of operation of the actuating element         latching           product extension optional         eight source         Yes           • contact module         Yes         Yes           color         othe actuating element         plastic           material of the actuating element         plastic         samm           material of the actuating element         red         material of the actuating element           outer diameter of the actuating element         round         as 8 mm           mumber of switching positions         2         rotate-to-unlatch mechanism           number of switching positions         2         front ring           product function         Yes         Yes           e EMERGENCY OFF function         Yes         Yes           protect function class IP         IP66, IP67, IP69(IP69K)         degree of protection NEMA rating           e act: to IEC 60068-2-27         Sinusoidal half-wave 50g / 11 ms         category 1, Class B           vibration resistance         e. 0ct. IEC 60068-2-6         10 500 Hz: 5g         category 1, Class B  <	design of the product	Actuating/signaling element	
Enclosure           number of command points         1           Actuator         design of the actuating element         positive latching           principle of operation of the actuating element         latching           product extension optional         ves           • light source         Yes           color         • of the actuating element         red           material of the actuating element         plastic           shape of the actuating element         round           outer diameter of the actuating element         Any inscription, text or symbol, can only be ordered via SIRUS ACT           configuration/configuration identification Number (CIN)         type of unlocking device           rotate-to-unlatch mechanism         round           number of switching positions         2           Front ring         product component front ring           product component front ring         No           General technical data         product function           • positive opening         Yes           • EMERGENCY OFF function         Yes           • EMERGENCY OFF function         Yes           • EMERGENCY OFF function         Yes           • eacr. to IEC 60068-2-27         Sinusoidal half-wave 50g / 11 ms           • for railway applications acc. to DIN	product type designation	3SU1	
number of command points       1         Actuator	product line	Plastic, black, 22 mm	
Actuator       Desitive latching         design of the actuating element       positive latching         principle of operation of the actuating element       latching         product extension optional       latching         e contact module       Yes         e contact module       Yes         of the actuating element       plastic         shape of the actuating element       plastic         shape of the actuating element       red         material of the actuating element       oround         outer dlameter of the actuating element       as.8 mm         marking of the actuating element       configurator/Configuration Identification Number (CIN)         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         General tachnical data       product function         e EMERGENCY STOP function       Yes         e EMERGENCY STOP function       Yes         e acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         e for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       acc. to IEC 60068-2-6       10 500 Hz: 5g         e acc. to IEC 60068-2-6       10 500 Hz: 5g       Category 1, Clas	Enclosure		
design of the actuating element         positive latching           principle of operation of the actuating element         latching           ight source         Yes           e.contact module         Yes           color         of the actuating element           material of the actuating element         plastic           shape of the actuating element         plastic           shape of the actuating element         round           outer diameter of the actuating element         33.8 mm           marking of the actuating element         configurator/Configuration Identification Number (CIN)           type of unlocking device         rotate-to-unlatch mechanism           number of switching positions         2           Front ring         No           General technical data         Yes           product function         Yes           e.EMERGENCY OFF function         Yes           e.EMERGENCY OFF function         Yes           protection class IP         IP66, IP67, IP69(IP69K)           degree of protection NEMA rating         1, 2, 3, 3R, 4, 4X, 12, 13           shock resistance         acc. to IEC 60068-2-27           e.acc. to IEC 60068-2-26         ISINE (Category 1, Class B           vibration resistance         acc. to IEC 60068-2-6         10.	number of command points	1	
principle of operation of the actuating element       latching         product extension optional	Actuator		
product extension optional       • light source       Yes         • contact module       Yes         color       • of the actuating element       red         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       33.8 mm         marking of the actuating element       33.8 mm         marking of the actuating element       configurator/Configuration Identification Number (CIN)         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       Product function         product function       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         protection class IP       IP66, IP67, IP69(IP69K)         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       acc. to IEC 60068-2-27         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       • acc. to IEC 60068-2-6         • acc. to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B	design of the actuating element	positive latching	
• light source       Yes         • contact module       Yes         • color       • of the actuating element         • of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       33.8 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring	principle of operation of the actuating element	latching	
• contact module       Yes         color       red         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       33.8 mm         marking of the actuating element       33.8 mm         marking of the actuating element       33.8 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       voluet function         product component front ring       No         General technical data       ves         product function       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY OFF function       Yes         e EMERGENCY STOP function       Yes         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 50g / 11 ms         • acc. to IEC 60068-2-67       Sinusoidal half-wave 50g / 11 ms         • acc. to IEC 60068-2-6       10 500 Hz: 5g         • for r	product extension optional		
color       red         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       33.8 mn         marking of the actuating element       33.8 mn         mumber of switching positions       2 <b>Front ring</b> rotate-to-unlatch mechanism         product function       Yes         • positive opening       Yes         • EMERGENCY OFF function       Yes         protection class IP       IP66, IP67, IP69(IP69K)         degree of protection NEMA ra	<ul> <li>light source</li> </ul>	Yes	
• of the actuating element       red         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       33.8 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         General technical data          product function       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         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 50g / 11 ms         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B	contact module	Yes	
material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       33.8 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         General technical data       Product function         • positive opening       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         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 50g / 11 ms         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • acc. to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B	color		
shape of the actuating element       round         outer diameter of the actuating element       33.8 mm         marking of the actuating element       33.8 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configurator Identification Number (CIN)         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       product component front ring         product function       Ves         • positive opening       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         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 50g / 11 ms         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B	<ul> <li>of the actuating element</li> </ul>	red	
outer diameter of the actuating element         33.8 mm           marking of the actuating element         Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)           type of unlocking device         rotate-to-unlatch mechanism           number of switching positions         2           Front ring         No           General technical data            product function         Yes           • EMERGENCY OFF function         Yes           • EMERGENCY STOP function         Yes           protection class IP         IP66, IP67, IP69(IP69K)           degree of protection NEMA rating         1, 2, 3, 3R, 4, 4X, 12, 13           shock resistance            • acc. to IEC 60068-2-27         Sinusoidal half-wave 50g / 11 ms           • for railway applications acc. to DIN EN 61373         Category 1, Class B	material of the actuating element	plastic	
marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         General technical data       Ves         product function       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         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 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B	shape of the actuating element	round	
configurator/Configuration Identification Number (CIN)         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       2         product component front ring       No         General technical data	outer diameter of the actuating element	33.8 mm	
number of switching positions       2         Front ring       No         groduct component front ring       No         General technical data       Yes         product function       Yes         • positive opening       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         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 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B	marking of the actuating element	Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)	
Front ring       No         General technical data	type of unlocking device	rotate-to-unlatch mechanism	
product component front ring       No         General technical data	number of switching positions	2	
General technical data         product function         • positive opening       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         protection class IP       IP66, IP67, IP69(IP69K)         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       acc. to IEC 60068-2-27         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance	Front ring		
product functionYes• positive openingYes• EMERGENCY OFF functionYes• EMERGENCY STOP functionYesprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• acc. to IEC 60068-2-27• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-6• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B	product component front ring	No	
• positive openingYes• EMERGENCY OFF functionYes• EMERGENCY STOP functionYesprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance-• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance-• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B	General technical data		
EMERGENCY OFF function     Yes     EMERGENCY STOP function     Yes     protection class IP     IP66, IP67, IP69(IP69K)     degree of protection NEMA rating     1, 2, 3, 3R, 4, 4X, 12, 13     shock resistance         e acc. to IEC 60068-2-27         Sinusoidal half-wave 50g / 11 ms         for railway applications acc. to DIN EN 61373         Category 1, Class B     vibration resistance         e acc. to IEC 60068-2-6         for railway applications acc. to DIN EN 61373         Category 1, Class B	product function		
• EMERGENCY STOP functionYesprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B	<ul> <li>positive opening</li> </ul>	Yes	
protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceSinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B	<ul> <li>EMERGENCY OFF function</li> </ul>	Yes	
degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceSinusoidal half-wave 50g / 11 ms• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B	EMERGENCY STOP function	Yes	
shock resistance         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B	protection class IP	IP66, IP67, IP69(IP69K)	
	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13	
for railway applications acc. to DIN EN 61373 Category 1, Class B      ibration resistance         e acc. to IEC 60068-2-6         for railway applications acc. to DIN EN 61373 Category 1, Class B	shock resistance		
vibration resistance• acc. to IEC 60068-2-6• for railway applications acc. to DIN EN 61373Category 1, Class B	• acc. to IEC 60068-2-27	Sinusoidal half-wave 50g / 11 ms	
• acc. to IEC 60068-2-6         10 500 Hz: 5g           • for railway applications acc. to DIN EN 61373         Category 1, Class B	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B	
for railway applications acc. to DIN EN 61373     Category 1, Class B	vibration resistance		
	• acc. to IEC 60068-2-6	10 500 Hz: 5g	
operating frequency maximum 600 1/h	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B	
	operating frequency maximum	600 1/h	

mechanical service life (switching cycles) typical	300 000	
reference code acc. to IEC 81346-2	S	
Safety related data		
B10 value with high demand rate acc. to SN 31920	100 000	
proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	20 %	
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	20 %	
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT	
T1 value for proof test interval or service life acc. to IEC 61508	20 у	
Ambient conditions		
<ul> <li>ambient temperature during operation</li> </ul>	-25 +70 °C	
<ul> <li>ambient temperature during storage</li> </ul>	-40 +80 °C	
environmental category during operation acc. to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %)	
Installation/ mounting/ dimensions		
shape of the installation opening	round	
mounting diameter	22.3 mm	
positive tolerance of installation diameter	0.4 mm	
mounting height	44.2 mm	
installation width	33.8 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?mlfb=3SU1001-1GB20-0AA0-Z Y19 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1001-1GB20-0AA0-Z Y19 Service&Support (Manuals, Certificates, Characteristics, FAQs,)		
https://support.industry.siemens.com/cs/ww/en/ps/3SU1001-		

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1001-1GB20-0AA0-Z Y19&lang=en

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