## SIEMENS

## Data sheet

## 3SU1001-1JB20-0AA0-Z Y10



EMERGENCY STOP mushroom pushbutton, illuminable, 22 mm, round, plastic, red, 60 mm, positive latching, acc. to EN ISO 13850, rotate-tounlatch, with laser labeling, upper case and lower case, always upper case at beginning of line

product brand name         SIRIUS ACT           product designation         EMERGENCY STOP mushroom pushbuttons           design of the product         Actuating/signaling element           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         latching           principle of operation of the actuating element         Yes           • contact module         Yes           color         oth actuating element           of the actuating element         plastic           shape of the actuating element         plastic           shape of the actuating element         for and           outer diameter of the actuating element         for and           withing of the actuating element         for and           shape of the actuating element         for and           marking of the actuating element         for and           product function         for and           marking of the actuating element         for and           shape of the actuating element         for and           product funcking divics         rotata-to-unlatch mec		
design of the product       Actuating/signaling element         product type designation       35U1         product line       Plastic, black, 22 mm         Enclosure       Immber of command points         1       Actuator         design of the actuating element       positive latching         principle of operation of the actuating element       latching         principle of operation of the actuating element       latching         e light source       Yes         contact module       Yes         color       of the actuating element         of the actuating element       plastic         shape of the actuating element       plastic         shape of the actuating element       form         material of the actuating element       form         marking of the actuating element       form         for anlower of switching positions       2         Front ring       form <th>product brand name</th> <th>SIRIUS ACT</th>	product brand name	SIRIUS ACT
product type designation         3SU1           product line         Plastic, black, 22 mm           Enclosure         Inumber of command points         1           Actuator         design of the actuating element         positive latching           principle of operation of the actuating element         latching           product extension optional         ight source         Yes           • light source         Yes         contact module           • of the actuating element         red         red           material of the actuating element         plastic         shape of the actuating element           outer diameter of the actuating element         found         outer diameter of the actuating element           material of the actuating element         found         avy inscription, text in upper/lower case, every line begins with upper case letter           type of unlocking device         rotate-to-unlatch mechanism         avy inscription, text in upper/lower case, every line begins with upper case letter           product component front ring         No         General tochnical data           product somponent front ring         Yes         Settime of switching positions           e EMERGENCY OFF function         Yes         Settime of switching of the actuating           e EMERGENCY OFF function         Yes         Settime of the actuating	product designation	EMERGENCY STOP mushroom pushbuttons
product line         Plastic, black, 22 mm           Enclosure         I           number of command points         1           Actuator         design of the actuating element         positive latching           principle of operation of the actuating element         positive latching         principle of operation of the actuating element           elight source         Yes         Yes         Yes           • contact module         Yes         Yes           off the actuating element         red         material of the actuating element           off the actuating element         found         found           outer diameter of the actuating element         found         found           outer diameter of the actuating element         found         found           marking of the actuating element         found         found           number of switching positions         2         front ing           product component front ring         No         found           opsitive opening         Yes         Yes           eEMERGENCY STOP function         Yes         for altway applications acc. to DIN EN 61373           shock resistance         sinusoidal half-wave 50g / 11 ms         for railway applications acc. to DIN EN 61373           vibration resistance         io	design of the product	Actuating/signaling element
Enclosure         I           Actuator         design of the actuating element         positive latching           principle of operation of the actuating element         latching           product extension optional         ight source         Yes           • light source         Yes         contact module           • of the actuating element         red         red           • actuating element         red         red           • of the actuating element         plastic         shape of the actuating element         for marking of the actuating element           outer diameter of the actuating element         for marking of the actuating element         for marking of the actuating element         for marking of the actuating element           type of unlocking device         rotate-to-unlatch mechanism         round           number of switching positions         2         front ring           product component front ring         No         General tochnical data           product function         Yes         setter           • EMERGENCY OFF function         Yes         setter           protection class IP         IP66, IP67, IP69(IP69K)         degree of protection NEMA rating           • acc: to IEC 60068-2-27         Sinusoidal half-wave 50g / 11 ms         category 1, Class B           vibra	product type designation	3SU1
number of command points       1         Actuator       design of the actuating element       positive latching         principle of operation of the actuating element       latching         principle of operation of the actuating element       latching         e light source       Yes         • contact module       Yes         • of the actuating element       red         material of the actuating element       plastic         shape of the actuating element       60 mm         outer diameter of the actuating element       60 mm         marking of the actuating element       60 mm         number of switching positions       2         Front fing       product component front ring         Product component front ring       No         General technical data       Yes         protection Class IP       IP66, IP67, IP69(IP69K)         e EMERGENCY STOP function       Yes         protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       act. to IEC 60068-2-27         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	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       ilight source         • light source       Yes         • contact module       Yes         • contact module       Yes         • of the actuating element       plastic         shape of the actuating element       plastic         shape of the actuating element       60 mm         marking of the actuating element       60 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         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 OFF function       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         • EMERGENCY OFF function       Yes         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category	Enclosure	
design of the actuating element       positive latching         principle of operation of the actuating element       latching         principle of operation of the actuating element       latching         i light source       Yes         color       Yes         color       red         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       60 mm         marking of the actuating element       60 mm         case letter       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         General technical data       Yes         product function       Yes         • positive opening       Yes         • EMERGENCY OFF function       Yes         • 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       Sinusoidal half	number of command points	1
principle of operation of the actuating element       latching         product extension optional       Yes         • light source       Yes         • contact module       Yes         color       red         • of the actuating element       red         shape of the actuating element       plastic         shape of the actuating element       60 mm         marking of the actuating element       60 mm         marking of the actuating element       60 mm         marking of the actuating element       7 totate-to-unlatch mechanism         number of switching positions       2         Front ring       No         General technical data       Yes         product function       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         • EMERGENCY STOP function       Yes         • positive opening       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	Actuator	
product extension optional <ul> <li>light source</li> <li>contact module</li> <li>Yes</li> <li>contact module</li> <li>Yes</li> <li>color</li> <li>of the actuating element</li> <li>red</li> <li>material of the actuating element</li> <li>plastic</li> <li>shape of the actuating element</li> <li>cound</li> <li>outer diameter of the actuating element</li> <li>60 mm</li> <li>marking of the actuating element</li> <li>case letter</li> <li>rotate-to-unlatch mechanism</li> <li>number of switching positions</li> <li>2</li> <li>Front ring</li> <li>product component front ring</li> <li>No</li> <li>General technical data</li> <li>product function             <ul> <li>eLMERGENCY OFF function</li> <li>Yes</li> <li>ELMERGENCY OFF function</li> <li>Yes</li> <li>ELMERGENCY OFF function</li> <li>Yes</li> <li>ELMERGENCY OFF function</li> <li>Yes</li> <li>ELMERGENCY STOP function</li> <li>Yes</li> <li>etter of protection NEMA rating</li> <li>1, 2, 3, 3R, 4, 4X, 12, 13</li> </ul> </li> <li>shock resistance         <ul> <li>acc. to IEC 60088-2-27</li> <li>Sinusoidal half-wave 50g / 11 ms</li> <li>category 1, Class B</li> <li>vibration resistance</li> <li>acc. to IEC 60088-2-6</li> <li>10 500 Hz: 5g</li> <li>for railway applications acc. to DIN EN 61373</li> <li>Category 1, Class B</li> </ul> </li> </ul>	design of the actuating element	positive latching
• light source       Yes         • contact module       Yes         • contact module       Yes         • of the actuating element       red         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       60 mm         marking of the actuating element       7 vate-to-unlatch mechanism         number of switching positions       2         Front ring       7         product function       7         • positive opening       Yes         • EMERGENCY OFF function       Yes         • EMERGENCY STOP function       Yes         • eacc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • acc. to IEC 60068-2-6       10 500 Hz: 5g	principle of operation of the actuating element	latching
• contact module       Yes         color       red         • of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       60 mm         marking of the actuating element       60 mm         marking of the actuating element       60 mm         marking of the actuating element       80 mm         marking of the actuating element       80 mm         marking of the actuating element       80 mm         front ring       rotate-to-unlatch mechanism         product component front ring       No         General technical data       Product function         • positive opening       Yes         • EMERGENCY OFF function       Yes         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • acc. to IEC 60068-2-6       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	product extension optional	
color       red         material of the actuating element       plastic         shape of the actuating element       round         outer diameter of the actuating element       60 mm         marking of the actuating element       70 traits in upper/lower case, every line begins with upper case letter         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       No         General technical data	<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       60 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       Ves         product component front ring       No         General technical data       Ves         e 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         e. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         e. to IEC 60068-2-6       10 500 Hz: 5g         oct. to IEC 60068-2-6       10 500 Hz: 5g         e. acc. to IEC 60068-2-6       10 500 Hz: 5g         e. 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       60 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         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       acc. to IEC 60068-2-27         • 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	color	
shape of the actuating element       round         outer diameter of the actuating element       60 mm         marking of the actuating element       Any inscription, text in upper/lower case, every line begins with upper case letter         type of unlocking device       rotate-to-unlatch mechanism         number of switching positions       2         Front ring       votate-to-unlatch mechanism         product component 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       acc. to IEC 60068-2-6       10 500 Hz: 5g         • acc. to IEC 60068-2-6       10 500 Hz: 5g       Category 1, Class B	<ul> <li>of the actuating element</li> </ul>	red
outer diameter of the actuating element60 mmmarking of the actuating elementAny inscription, text in upper/lower case, every line begins with upper case lettertype of unlocking devicerotate-to-unlatch mechanismnumber of switching positions2Front ringNoproduct component front ringNoGeneral technical dataproduct 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 resistancesinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class B	material of the actuating element	plastic
marking of the actuating elementAny inscription, text in upper/lower case, every line begins with upper case lettertype of unlocking devicerotate-to-unlatch mechanismnumber of switching positions2Front ringNoproduct component front ringNoGeneral technical dataYesproduct 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 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	shape of the actuating element	round
case lettertype of unlocking devicerotate-to-unlatch mechanismnumber of switching positions2Front ringNoproduct component front ringNoGeneral technical dataYesproduct 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 resistanceSinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceI0 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B	outer diameter of the actuating element	60 mm
number of switching positions       2         Front ring       No         groduct component front ring       No         General technical data	marking of the actuating element	
Front ring       No         General technical data       Froduct function            product function <ul> <li>positive opening</li> <li>Yes</li> <li>EMERGENCY OFF function</li> <li>Yes</li> <li>EMERGENCY STOP function</li> <li>Yes</li> </ul> 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 <ul> <li>for railway applications acc. to DIN EN 61373</li> <li>Category 1, Class B</li> </ul> vibration resistance         10 500 Hz: 5g <ul> <li>for railway applications acc. to DIN EN 61373</li> <li>Category 1, Class B</li> </ul>	type of unlocking device	rotate-to-unlatch mechanism
product component front ringNoGeneral technical dataproduct function• 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 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	number of switching positions	2
General technical data         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       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       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B	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     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     vibration resistance         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 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>EMERGENCY OFF function</li> </ul>	Yes
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         vibration resistance       -         • acc. to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B	EMERGENCY STOP function	Yes
shock resistance	protection class IP	IP66, IP67, IP69(IP69K)
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	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	45.3 mm
installation width	60 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=3SU1001-1JB20-0AA0-Z Y10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1001-1JB20-0AA0-Z Y10	
Service&Support (Manuals, Certificates, Characteristics 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=3SU1001-1JB20-0AA0-Z Y10&lang=en

last modified:

8/31/2020 🖸