## 3SU1001-1HB20-0AA0-Z Y10

## **Data sheet**



Illum. emergency stop mushroom pushbutton, 22 mm, round, plastic, red, 40mm, positive latching, rotate-to-unlatch, with laser labeling, upper case and lower case, always upper case at beginning of line

product designation design of the product product type designation product line Plastic, black, 22 mm  Enclosure  Inumber of command points Actuator  design of the actuating element product extension optional elight source contact module color of the actuating element shape of the actuating element product extension optional elight source for the actuating element product extension optional elight source for the actuating element product extension optional elight source for the actuating element product extension optional elight source for the actuating element element for the actuating element for the actuating element shape of the actuating element found outer diameter of the actuating element arking of the actuating element arking 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 rumber of switching positions  Front ring product component front ring Rogeneral technical data product function epositive opening eMERGENCY OFF function yes protection class IP degree of protection NEMA rating shock resistance e.ac. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373 operating frequency maximum eMERGENCY according to the color of the color o	product brand name	SIRIUS ACT	
product type designation product line Plastic, black, 22 mm  Encolosure number of command points Actuator  design of the actuating element principle of operation of the actuating element elight source contact module of the actuating element product extension optional elight source of the actuating element product actuating element elight source of the actuating element elight source of the actuating element elight source of the actuating element product durating element product actuating element product actuating element shape of the actuating element pround product of the actuating element pround product durating element product durating element product omponent front ring product component front ring enumber of switching positions product component front ring enumber of switching device product function epositive opening eMERGENCY STOP function eMERGENCY STOP function yes protection class IP degree of protection NEMA rating shock resistance eac. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373 vibration resistance eac. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 vibration resistance eac. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 Category 1, Class B	product designation	EMERGENCY STOP mushroom pushbuttons	
product line Plastic, black, 22 mm  Enclosure  number of command points 1  Actuator  design of the actuating element product extension optional elight source contact module Yes  color of the actuating element plastic round outer diameter of the actuating element arking of the actuating element pound outer diameter of the actuating element arking arki	design of the product	Actuating/signaling element	
Enclosure  number of command points  Actuator  design of the actuating element principle of operation of the actuating element   light source	product type designation	3SU1	
Actuator  design of the actuating element principle of operation of the actuating element product extension optional  e light source	product line	Plastic, black, 22 mm	
Actuator  design of the actuating element principle of operation of the actuating element principle of operation of the actuating element product extension optional elight source yes contact module Yes Yes  color of the actuating element plastic round actuating element plastic round outer diameter of the actuating element arking arki	Enclosure		
design of the actuating element principle of operation of the actuating element product extension optional	number of command points	1	
principle of operation of the actuating element product extension optional  • light source • contact module  color • of the actuating element material of the actuating element outer diameter of the actuating element marking of the actuating element marking of the actuating element Any inscription, text in upper/lower case, every line begins with upper case letter rotate-to-unlatch mechanism  2  Front ring product component front ring No  General technical data  product function • positive opening • EMERGENCY OFF function • positive opening • EMERGENCY STOP function • protection class IP degree of protection NEMA rating shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373  Latching  res  Yes  Yes  Yes  Yes  Yes  Yes  1P66, IP67, IP69(IP69K)  Category 1, Class B  10 500 Hz: 5g  Category 1, Class B	Actuator		
product extension optional    light source	design of the actuating element	positive latching	
● light source ● contact module  color ● of the actuating element material of the actuating element marking of the actuating element  type of unlocking device number of switching positions  Front ring product component front ring product component front ring  Find trunction ● positive opening ● EMERGENCY OFF function ● EMERGENCY STOP function Protection class IP degree of protection NEMA rating shock resistance ● acc. to IEC 60068-2-6 ● for railway applications acc. to DIN EN 61373  Yes Pother ind  Ye	principle of operation of the actuating element	latching	
ocolor of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element marking of the actuating element  type of unlocking device number of switching positions  product component front ring  product component front ring  product function opisitive opening EMERGENCY OFF function EMERGENCY STOP function  protection class IP degree of protection NEMA rating shock resistance oe. acc. to IEC 60068-2-27 of or railway applications acc. to DIN EN 61373  vibration resistance of the actuating element round round round Any inscription, text in upper/lower case, every line begins with upper case letter round Nom No  Positive opening Yes  Prose PROGRICY OFF function Yes PROGRICY STOP function Yes Protection class IP PROGRICY STOP function In 2, 3, 3R, 4, 4X, 12, 13  Shock resistance Oe. acc. to IEC 60068-2-27 Of or railway applications acc. to DIN EN 61373  Category 1, Class B  Category 1, Class B  Category 1, Class B  Category 1, Class B	product extension optional		
color	<ul> <li>light source</li> </ul>	Yes	
of the actuating element     material of the actuating element     shape of the actuating element     outer diameter of the actuating element     anxing of the actuating element     anxing 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  product component front ring     No  General technical data  product function     • positive opening     • EMERGENCY OFF function     • EMERGENCY STOP function     • EMERGENCY STOP function     yes     • EMERGENCY STOP function     yes     protection class IP     degree of protection NEMA rating     shock resistance     • acc. to IEC 60068-2-27     • for railway applications acc. to DIN EN 61373  vibration resistance     • acc. to IEC 60068-2-6     • for railway applications acc. to DIN EN 61373  Category 1, Class B	contact module	Yes	
material of the actuating element shape of the actuating element outer diameter of the actuating element  marking of the actuating element  marking of the actuating element  Any inscription, text in upper/lower case, every line begins with upper case letter  type of unlocking device number of switching positions  2  Front ring  product component front ring  No  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function • Pees EMERGENCY STOP function  protection class IP  degree of protection NEMA rating  shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373  Category 1, Class B	color		
shape of the actuating element outer diameter of the actuating element  marking of the actuating element  type of unlocking device number of switching positions  product component front ring  product function  positive opening EMERGENCY OFF function EMERGENCY STOP function  protection class IP degree of protection NEMA rating shock resistance acc. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373  vibration resistance acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373  Category 1, Class B	of the actuating element	red	
outer diameter of the actuating element  marking of the actuating element  Any inscription, text in upper/lower case, every line begins with upper case letter  rotate-to-unlatch mechanism  2  Front ring  product component front ring  No  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function • EMERGENCY STOP function  protection class IP  degree of protection NEMA rating  shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373  Category 1, Class B  Viantion Hamiltonian Any inspection in the protection of t	material of the actuating element	plastic	
marking of the actuating element  Any inscription, text in upper/lower case, every line begins with upper case letter  rotate-to-unlatch mechanism  2  Front ring  product component front ring  Product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function • EMERGENCY STOP function • EMERGENCY STOP function • EMERGENCY STOP function • Test of protection NEMA rating  shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373  Category 1, Class B	shape of the actuating element	round	
type of unlocking device number of switching positions  Product component front ring  product function  positive opening EMERGENCY OFF function EMERGENCY STOP function  protection class IP degree of protection NEMA rating  shock resistance  acc. to IEC 60068-2-27  for railway applications acc. to DIN EN 61373  case letter  rotate-to-unlatch mechanism  7  7  7  8  8  8  8  8  8  8  8  8  8	outer diameter of the actuating element	40 mm	
number of switching positions  2  Front ring product component front ring  No  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  • EMERGENCY STOP f	marking of the actuating element		
product component front ring  No  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  protection class IP  protection class IP  degree of protection NEMA rating  shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373  Category 1, Class B	type of unlocking device	rotate-to-unlatch mechanism	
product component front ring  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  protection class IP  protection class IP  protection NEMA rating  shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373  No  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	number of switching positions	2	
product function	Front ring		
product function	product component front ring	No	
<ul> <li>positive opening</li> <li>EMERGENCY OFF function</li> <li>EMERGENCY STOP function</li> <li>Yes</li> <li>protection class IP</li> <li>IP66, IP67, IP69(IP69K)</li> <li>degree of protection NEMA rating</li> <li>1, 2, 3, 3R, 4, 4X, 12, 13</li> <li>shock resistance</li> <li>acc. to IEC 60068-2-27</li> <li>for railway applications acc. to DIN EN 61373</li> <li>Vibration resistance</li> <li>acc. to IEC 60068-2-6</li> <li>for railway applications acc. to DIN EN 61373</li> <li>Category 1, Class B</li> <li>Category 1, Class B</li> </ul>	General technical data		
EMERGENCY OFF function     EMERGENCY STOP function     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  vibration resistance     acc. to IEC 60068-2-6     acc. to IEC 60068-2-6     for railway applications acc. to DIN EN 61373  Category 1, Class B  Category 1, Class B	product function		
● EMERGENCY STOP function  Protection class IP  degree of protection NEMA rating  shock resistance  ● acc. to IEC 60068-2-27  ● for railway applications acc. to DIN EN 61373  vibration resistance  ● acc. to IEC 60068-2-6  ● 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	<ul> <li>positive opening</li> </ul>	Yes	
protection class IP  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  vibration resistance  • acc. to IEC 60068-2-6  • for railway applications acc. to DIN EN 61373  Category 1, Class B  vibration resistance  • for railway applications acc. to DIN EN 61373  Category 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  • for railway applications acc. to DIN EN 61373  vibration resistance  • acc. to IEC 60068-2-6  • for railway applications acc. to DIN EN 61373  Category 1, Class B  10 500 Hz: 5g  • for railway applications acc. to DIN EN 61373  Category 1, Class B	<ul> <li>EMERGENCY STOP function</li> </ul>	Yes	
shock resistance  • acc. to IEC 60068-2-27  • for railway applications acc. to DIN EN 61373  vibration resistance  • acc. to IEC 60068-2-6  • for railway applications acc. to DIN EN 61373  Category 1, Class B  10 500 Hz: 5g  • for railway applications acc. to DIN EN 61373  Category 1, Class B	protection class IP	IP66, IP67, IP69(IP69K)	
<ul> <li>acc. to IEC 60068-2-27</li> <li>for railway applications acc. to DIN EN 61373</li> <li>vibration resistance</li> <li>acc. to IEC 60068-2-6</li> <li>for railway applications acc. to DIN EN 61373</li> <li>Category 1, Class B</li> <li>10 500 Hz: 5g</li> <li>for railway applications acc. to DIN EN 61373</li> <li>Category 1, Class B</li> </ul>	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13	
for railway applications acc. to DIN EN 61373      vibration resistance     acc. to IEC 60068-2-6     for railway applications acc. to DIN EN 61373      Category 1, Class B  10 500 Hz: 5g     Category 1, Class B	shock resistance		
vibration resistance	• acc. to IEC 60068-2-27	Sinusoidal half-wave 50g / 11 ms	
<ul> <li>acc. to IEC 60068-2-6</li> <li>for railway applications acc. to DIN EN 61373</li> <li>10 500 Hz: 5g</li> <li>Category 1, Class B</li> </ul>	<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	• for railway applications acc. to DIN EN 61373	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 y
Ambient conditions	
<ul> <li>ambient temperature during operation</li> </ul>	-25 +70 °C
ambient temperature during storage	-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	40 mm
installation depth	26.3 mm
Certificates/ approvals	

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=3SU1001-1HB20-0AA0-Z Y10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1001-1HB20-0AA0-Z Y10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SU1001-1HB20-0AA0-Z Y10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1001-1HB20-0AA0-Z Y10&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1001-1HB20-0AA0-Z Y10&lang=en</a>