# **SIEMENS**

# **Data sheet**

# 3SU1001-1HB20-0AA0



EMERGENCY STOP mushroom pushbutton, illuminable, 22 mm, round, plastic, red, 40 mm, positive latching, acc. to EN ISO 13850, rotate-to-unlatch

product brand name product designation design of the product product type designation product line SIRIUS ACT

**EMERGENCY STOP mushroom pushbuttons** 

Actuating/signaling element

3SU1

Plastic, black, 22 mm

Enclosure  number of command points  design of the actuating element 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 outer diameter of the actuating element type of unlocking device number of switching positions  2  Front ring product component front ring Ceneral technical data product function  positive opening  EMERGENCY OFF function EMERGENCY OFF function  EMERGENCY STOP funct	product inte	r ladio, 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  • 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 type of unlocking device rotate outer diameter of the actuating element type of unlocking device rotate outer diameter of the actuating element product component front ring No  General technical data  product component front ring No  General technical data  product function • positive latching positions Yes • EMERGENCY OFF function Yes protection class IP 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 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data	Enclosure	
design of the actuating element principle of operation of the actuating element product extension optional  • light source • contact module  color  • of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element type of unlocking device number of switching positions  rend type of unlocking device number of switching positions  product component front ring  product tomponent front ring  Remarks of the actuating element outer diameter of the actuating element type of unlocking device number of switching positions  rend front ring  product component front ring  Remarks of the actuating element outer diameter of the actuating element type of unlocking device number of switching positions  rend front ring  product component front ring  Remarks of the actuating of th	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 shape of the actuating element vpe of unlocking device number of switching positions  Front ring product component front ring  General technical data  product function • positive opening • EMERGENCY OFF function • EMERGENCY STOP function • Carrollova States • according to IEC 60068-2-7 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data  Ves  Yes  Ves  Ves  Yes  Yes  Yes  Yes	Actuator	
Product extension optional   Fight source   Figh sou	design of the actuating element	positive latching
• light source • contact module color • of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element type of unlocking device number of switching positions  Front ring product component front ring Ceneral technical data  product function • positive opening • EMERGENCY OFF function • EMERGENCY OFF function • EMERGENCY STOP function protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitiance (Date)  Safety related data  Yes Ves  Yes  Yes  Yes  Yes  Yes  Yes	principle of operation of the actuating element	latching
or contact module     color	product extension optional	
color  • of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element type of unlocking device number of switching positions  Front ring  product component front ring  Ceneral technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function • EMERGENCY STOP function • Meterical protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373  operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data	• light source	Yes
• of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element 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 • EMERGENCY STOP function • EMERGENCY STOP function • protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data	<ul> <li>contact module</li> </ul>	Yes
material of the actuating element shape of the actuating element outer diameter of the actuating element type of unlocking device number of switching positions  2  Front ring product component front ring  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data	color	
shape of the actuating element outer diameter of the actuating element type of unlocking device number of switching positions  Front ring product component front ring  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  • protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data	<ul> <li>of the actuating element</li> </ul>	red
outer diameter of the actuating element type of unlocking device number of switching positions  2  Front ring  product component front ring  product function	material of the actuating element	plastic
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 Yes • EMERGENCY STOP function Yes protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373  vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373  operating frequency maximum mechanism 2  rotate-to-unlatch mechanism 2  No  Safety related data		round
ront ring  product component front ring  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  • protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Pes  Yes  Yes  Yes  Yes  1P66, IP67, IP69(IP69K) 1, 2, 3, 3R, 4, 4X, 12, 13  Sinusoidal half-wave 15g / 11 ms Category 1, Class B  Category 1, Class B  Category 1, Class B  Oou 1/h 300 000  Safety related data		40 mm
product component front ring No  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 category 1, Class B  operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  No  Yes  1P66, IP67, IP69(IP69K) 1, 2, 3, 3R, 4, 4X, 12, 13  sinusoidal half-wave 15g / 11 ms Category 1, Class B  10 500 Hz: 5g Category 1, Class B  600 1/h 300 000 Safety related data	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 degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  No  Yes  Yes  Yes  Yes  IP66, IP67, IP69(IP69K)  1, 2, 3, 3R, 4, 4X, 12, 13  Sinusoidal half-wave 15g / 11 ms  Category 1, Class B  Category 1, Class B  Category 1, Class B  Oo 1/h 300 000  Safety related data	number of switching positions	2
product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  • EMERGENCY STOP function  protection class IP  degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373  vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373  operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	Front ring	
product function  • positive opening  • EMERGENCY OFF function  • EMERGENCY STOP function  • EMERGENCY STOP function  • EMERGENCY STOP function  protection class IP  degree of protection NEMA rating  shock resistance  • according to IEC 60068-2-27  • for railway applications according to EN 61373  vibration resistance  • according to IEC 60068-2-6  • for railway applications according to EN 61373  operating frequency maximum  mechanical service life (operating cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Yes  Yes  Yes  Yes  Yes  1P66, IP67, IP69(IP69K)  1, 2, 3, 3R, 4, 4X, 12, 13  sinusoidal half-wave 15g / 11 ms  Category 1, Class B  10 500 Hz: 5g  Category 1, Class B  600 1/h  300 000  Fererence code according to IEC 81346-2  Substance Prohibitance (Date)  Safety related data	product component front ring	No
<ul> <li>positive opening</li> <li>EMERGENCY OFF function</li> <li>EMERGENCY STOP function</li> <li>Yes</li> <li>Positive opening</li> <li>EMERGENCY STOP function</li> <li>Yes</li> <li>Pes</li> <li>IP66, IP67, IP69(IP69K)</li> <li></li></ul>	General technical data	
EMERGENCY OFF function EMERGENCY STOP function Frotection class IP  degree of protection NEMA rating Shock resistance  eaccording to IEC 60068-2-27  for railway applications according to EN 61373  vibration resistance  eaccording to IEC 60068-2-6  for railway applications according to EN 61373  operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2  Substance Prohibitance (Date)  Yes  Yes  Yes  Yes  1P66, IP67, IP69(IP69K)  1, 2, 3, 3R, 4, 4X, 12, 13  Sinusoidal half-wave 15g / 11 ms  Category 1, Class B  Category 1, Class B  600 1/h  300 000  Salety related data	product function	
EMERGENCY STOP function     protection class IP     degree of protection NEMA rating     shock resistance         • according to IEC 60068-2-27         • for railway applications according to EN 61373     vibration resistance         • according to IEC 60068-2-6         • for railway applications according to EN 61373     operating frequency maximum     mechanical service life (operating cycles) typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)  Yes     IP66, IP67, IP69(IP69K)  1, 2, 3, 3R, 4, 4X, 12, 13  Sinusoidal half-wave 15g / 11 ms  Category 1, Class B  Category 1, Class B  600 1/h  300 000  S S Substance Prohibitance (Date)  Safety related data	<ul> <li>positive opening</li> </ul>	Yes
protection class IP degree of protection NEMA rating shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  IP66, IP67, IP69(IP69K)  1, 2, 3, 3R, 4, 4X, 12, 13  sinusoidal half-wave 15g / 11 ms  Category 1, Class B  10 500 Hz: 5g  Category 1, Class B  600 1/h 300 000  Safety related data	<ul> <li>EMERGENCY OFF function</li> </ul>	Yes
degree of protection NEMA rating shock resistance	<ul> <li>EMERGENCY STOP function</li> </ul>	Yes
shock resistance	· ·	IP66, IP67, IP69(IP69K)
according to IEC 60068-2-27     inusoidal half-wave 15g / 11 ms     for railway applications according to EN 61373     vibration resistance     according to IEC 60068-2-6     for railway applications according to EN 61373     operating frequency maximum     mechanical service life (operating cycles) typical reference code according to IEC 81346-2     Substance Prohibitance (Date)      sinusoidal half-wave 15g / 11 ms     Category 1, Class B     Category 1, Class B     600 1/h     300 000     reference code according to IEC 81346-2     Substance Prohibitance (Date)      Safety related data	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
• for railway applications according to EN 61373     vibration resistance     • according to IEC 60068-2-6     • for railway applications according to EN 61373     operating frequency maximum     mechanical service life (operating cycles) typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)  Category 1, Class B  Category 1, Class B  600 1/h  300 000  For incomparity of the comparity of the	shock resistance	
vibration resistance  • according to IEC 60068-2-6  • for railway applications according to EN 61373  operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data	<ul><li>according to IEC 60068-2-27</li></ul>	sinusoidal half-wave 15g / 11 ms
according to IEC 60068-2-6     of for railway applications according to EN 61373     operating frequency maximum     mechanical service life (operating cycles) typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)  Safety related data  10 500 Hz: 5g  Category 1, Class B  600 1/h  300 000  Substance Prohibitance (Opate)  10/01/2014		Category 1, Class B
● for railway applications according to EN 61373  Operating frequency maximum  mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data  Category 1, Class B  600 1/h  300 000  Substance Prohibitance (Date)  10/01/2014	vibration resistance	
operating frequency maximum mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data	•	•
mechanical service life (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date)  Safety related data		~ ,
reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Safety related data		
Substance Prohibitance (Date) 10/01/2014 Safety related data		
Safety related data		
	Substance Prohibitance (Date)	10/01/2014
D. O. M. C.		
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

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT] with low demand rate according to SN 31920

20 % 100 FIT

20 %

## **Ambient conditions**

#### ambient temperature

during operation
 during storage
 -25 ... +70 °C
 -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

shape of the installation opening
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

#### **General Product Approval**

Declaration of Conformity



Confirmation









Declaration of Conformity

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other

Environment



Confirmation

Environmental Confirmations

# **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

Cax online generator

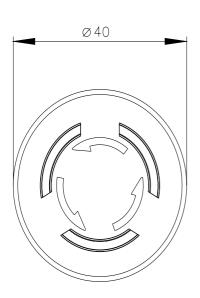
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1001-1HB20-0AA0

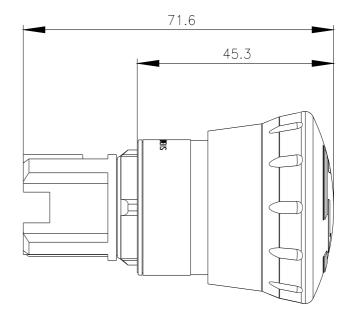
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1001-1HB20-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1001-1HB20-0AA0&lang=en





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