## **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 EMERCENCY STOP mushroom pushbuttons  design of the product product type designation product line Enclosure  number of command points  Actuator  design of the actuating element principle of operation of the actuating element product extension optional elight source contact module  color of the actuating element shape of the actuating element part outer diameter of the actuating element product extension optional elight source of the actuating element material of the actuating element product extension element product component front ring product component front ring product function product function product function protection class IP Pe6, IP67, IP69(IP69K) Pe6, IP67, IP69(IP69K) Perotection class IP Pe6, IP67, IP69(IP69K) Perotection class IP Pe6, IP67, IP69(IP69K) Perotection element protection resistance acc. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373 vibration resistance acc. to IEC 60068-2-8 for railway applications acc. to DIN EN 61373 Category 1, Class B Vibration resistance acc. to IEC 60068-2-8 for railway applications acc. to DIN EN 61373 Category 1, Class B  10 500 Hz. 5g category 1, Class B			
design of the product product type designation product line Plastic, black, 22 mm  Enclosure  number of command points 1 Actuator  design of the actuating element principle of operation of the actuating element   principle of operation of the actuating element			
product type designation product line Plastic, black, 22 mm  Enclosure  number of command points 1  Actustor  design of the actuating element principle of operation of the actuating element latching  product extension optional  • light source Yes  • contact module Yes  • cother actuating element plastic  shape of the actuating element round  outer diameter of the actuating element 40 mm  type of unlocking device rotate-to-unlatch mechanism  number of switching positions  Pront ring  product component front ring No  General technical data  product function  • positive pening Yes  • EMERGENCY OFF function Yes  • EMERGENCY STOP function Yes  • acc. to IEC 60068-2-7  • for railway applications acc. to DIN EN 61373  Ozategory 1, Class B  operating frequency maximum  600 1/h  Positive spening requency maximum  600 1/h			
product line Plastic, black, 22 mm  Enclosure  number of command points 1  Actuator  design of the actuating element product extension optional eligits source contact module Yes  contact module Yes  contact module red actuating element plastic shape of the actuating element round outer diameter of the actuating element at the contact module round outer diameter of the actuating element round outer diameter of the actuating positions 2  Front ring product component front ring No  General technical data product function Positive opening Yes  e EMERGENCY OFF function Yes  protection class IP IP66, IP67, IP69(IP69K)  degree of protection NEMA rating 10 50 Nbz. 5g  vibration resistance acc. to DIN EN 61373 Category 1, Class B  operating frequency maximum 600 1th			
Enclosure  number of command points  Actuator  design of the actuating element principle of operation of the actuating element product extension optional  • light source • contact module  red material 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 STOP function • EMERGENCY STOP function • Care of railway applications acc. to DIN EN 61373  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373  operating frequency maximum  positive perior positive opening of the care of th			
number of command points  Actuator  design of the actuating element principle of operation of the actuating element   latching   latching   product extension optional   elight source	product line	Plastic, black, 22 mm	
Actuator  design of the actuating element principle of operation of the actuating element product extension optional	Enclosure		
design of the actuating element principle of operation of the actuating element product extension optional  ilight source color of the actuating element plastic shape of the actuating element shape of the actuating element outer diameter of the actuating element rype of unlocking device rotate-to-unlatch mechanism round router dismeter of the actuating element round outer diameter of the actuating element round rou	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 outer diameter of the actuating element type of unlocking device number of switching positions  product component front ring  Roneral technical data product function • positive opening • EMERGENCY STOP function • EMERGENCY STOP function • positive opening actual ring protection class IP degree of protection NEMA rating shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 operating frequency maximum  latching  Yes  Yes  Yes  Ves  Product component front ring No  Roneral technical data  Product function  Positive opening Yes  EMERGENCY STOP function Yes  Protection class IP  General technical data  I, 2, 3, 3R, 4, 4X, 12, 13  Sinusoidal half-wave 50g / 11 ms  Category 1, Class B  Vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B	Actuator		
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 outer diameter of the actuating element outer diameter 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 • protection class IP  degree of protection NEMA rating shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373  operating frequency maximum  yes  Category 1, Class B  operating frequency maximum  yes  Category 1, Class B  operating frequency maximum  Outer diameter  red  red  Yes  Pos  Postive  round  Outer diameter  red  Postive  round  No  Totale  Postive  Postive opening  Yes  See  See  See  See  See  See  See	design of the actuating element	positive latching	
● light source ● contact module  Color ● of the actuating element material of the actuating element outer diameter of the actuating element  type of unlocking device number of switching positions  Front ring product component front ring  EMERGENCY OFF function ● positive opening ● 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  poperating frequency maximum  Product general technical case B  vibration resistance ● acc. to IEC 60068-2-6 ● for railway applications acc. to DIN EN 61373  Category 1, Class B  volume of the actuating element red  red  red  red  red  red  red  red	principle of operation of the actuating element	latching	
• 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  2  Front ring  product component front ring  product tomponent 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  • acc. to IEC 60068-2-27  • for railway applications acc. to DIN EN 61373  operating frequency maximum  ed  red  red  red  red  red  red  red	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  2  Front ring  product component front ring  No  General technical data  product function  oemic element  yes  element  Yes  element type of unlocking positions  2  Front ring  product component front ring  No  General technical data  product function  oemic element  yes  elemeragency OFF function  yes  protection class IP  degree of protection NEMA rating  shock resistance  oemic to IEC 60068-2-27  for railway applications acc. to DIN EN 61373  operating frequency maximum  red  red  red  red  plastic  red  plastic  round  vound  vound  nond  rotate-to-unlatch mechanism  votate-to-unlatch mechanism  vetate-to-unlatch mechanism  vetate-to-unlatch mechanism  ye  vetate-to-unlatch mechanism  vetate-to-unlatch mechanism  vetate-to-unlatch mechanism  ye  vetate-to-unlatch mechanism  vetate-to-unlatc	• 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  7	contact module	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 No  General technical data product function	color		
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	of the actuating element	red	
outer diameter of the actuating element     40 mm       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     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     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       operating frequency maximum     600 1/h	material of the actuating element	plastic	
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 • Category 1, Class B • For railway applications acc. to DIN EN 61373 • Category 1, Class B • Operating frequency maximum	shape of the actuating element	round	
number of switching positions  product component front ring  product component front ring  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  operating frequency maximum  2  No  No  Remeable No  Pes  Pes  Pes  Pes  Pes  Pes  Pes  Pe	outer diameter of the actuating element	40 mm	
product component front ring    Product component front ring	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  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  operating frequency maximum  600 1/h	number of switching positions	2	
product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  protection class IP  protection NEMA rating shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373  perating frequency maximum  Yes  Yes  Yes  Yes  Yes  Yes  Yes  IP66, IP67, IP69(IP69K)  1, 2, 3, 3R, 4, 4X, 12, 13  Sinusoidal half-wave 50g / 11 ms  Category 1, Class B  Operating frequency maximum  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	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  vibration frequency maximum  ves  yes  Yes  IP66, IP67, IP69(IP69K)  1, 2, 3, 3R, 4, 4X, 12, 13  Sinusoidal half-wave 50g / 11 ms  Category 1, Class B  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  operating frequency maximum	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>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>operating frequency maximum</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Sinusoidal half-wave</li> <li>Category 1, Class B</li> <li>Category 1, Class B</li> <li>Category 1, Class B</li> <li>Operating frequency maximum</li> <li>600 1/h</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  operating frequency maximum  600 1/h	product function		
<ul> <li>EMERGENCY STOP function</li> <li>protection class IP</li> <li>degree of protection NEMA rating</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>for railway applications acc. to DIN EN 61373</li> <li>Category 1, Class B</li> <li>for railway applications acc. to DIN EN 61373</li> </ul>	<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  • acc. to IEC 60068-2-6  • for railway applications acc. to DIN EN 61373  Category 1, Class B  operating frequency maximum  600 1/h	<ul> <li>EMERGENCY OFF function</li> </ul>	Yes	
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  for railway applications acc. to DIN EN 61373  Category 1, Class B  category 1, Class B  operating frequency maximum  600 1/h	<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  operating frequency maximum  600 1/h	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>for railway applications acc. to DIN EN 61373</li> <li>category 1, Class B</li> <li>for railway applications acc. to DIN EN 61373</li> <li>category 1, Class B</li> <li>operating frequency maximum</li> <li>600 1/h</li> </ul>	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      vibration resistance	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>Category 1, Class B</li> <li>operating frequency maximum</li> <li>600 1/h</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  operating frequency maximum 600 1/h	vibration resistance		
operating frequency maximum 600 1/h	• acc. to IEC 60068-2-6	10 500 Hz: 5g	
	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B	
mechanical service life (operating cycles) typical 300 000	operating frequency maximum	600 1/h	
	mechanical service life (operating cycles) typical	300 000	

Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

reference code acc. to IEC 81346-2	S
Substance Prohibitance (Date)	01.10.2014 00:00:00
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	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +70 °C
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	
General Product Approval	Declaration of Conformity











**Test Certificates** 

Marine / Shipping







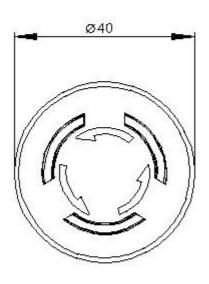


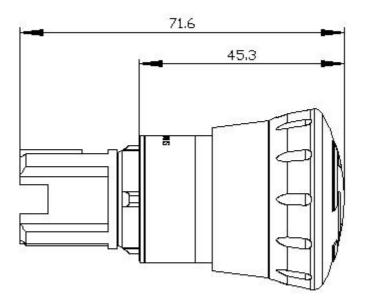
Marine / Shipping

other



Further information





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