## **SIEMENS**

## **Data sheet**

## 3SU1100-1HB20-1CH0





EMERGENCY STOP mushroom-type actuator, 22 mm, round, plastic, red, 40 mm, positive latching, according to EN ISO 13850, rotate-to-unlatch, with yellow backing plate, inscription: NOT-HALT, with holder, 1 NC, screw terminal



product brand name	SIRIUS ACT
product designation	EMERGENCY STOP mushroom pushbuttons
design of the product	Complete unit
product type designation	3SU1
product line	Plastic, black, 22 mm
manufacturer's article number	
<ul> <li>of supplied contact module at position 1</li> </ul>	3SU1400-1AA10-1CA0
<ul> <li>of the supplied holder</li> </ul>	3SU1550-0AA10-0AA0
<ul> <li>of the supplied actuator</li> </ul>	3SU1000-1HB20-0AA0
<ul> <li>of supplied accessory</li> </ul>	3SU1900-0BC31-0AT0
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 light source	No
color of the actuating element	red
material of the actuating element	plastic
shape of the actuating element	round
outer diameter of the actuating element	40 mm
number of contact modules	1
type of unlocking device	rotate-to-unlatch mechanism
Front ring	
product component front ring	No
Holder	
material of the holder	Plastic
Display	
number of LED modules	0
General technical data	
product function	
<ul> <li>positive opening</li> </ul>	Yes
<ul> <li>EMERGENCY OFF function</li> </ul>	Yes
EMERGENCY STOP function	Yes
product component light source	No
insulation voltage rated value	500 V
degree of pollution	3
type of voltage of the operating voltage	AC/DC

ourge veltage resistance reted velve	C IA/
surge voltage resistance rated value	6 kV
protection class IP	IP66, IP67, IP69(IP69K)
of the terminal  degree of protection NEMA reting	IP20
degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
	sinusoidal half-waya 15n / 11 ms
<ul> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> </ul>	sinusoidal half-wave 15g / 11 ms Category 1, Class B
vibration resistance	Category 1, Olass D
• according to IEC 60068-2-6	10 500 Hz: 5g
for railway applications according to EN 61373	Category 1, Class B
operating frequency maximum	600 1/h
mechanical service life (operating cycles) typical	300 000
electrical endurance (operating cycles) typical	300 000
thermal current	10 A
reference code according to IEC 81346-2	S
continuous current of the C characteristic MCB	10 A; for a short-circuit current smaller than 400 A
continuous current of the quick DIAZED fuse link	10 A
continuous current of the DIAZED fuse link gG	10 A
Substance Prohibitance (Date)	10/01/2014
operating voltage	
• at AC	
— at 50 Hz rated value	5 500 V
— at 60 Hz rated value	5 500 V
at DC rated value	5 500 V
Power Electronics	
contact reliability	One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)
Auxiliary circuit	
design of the contact of auxiliary contacts	Silver alloy
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	0
Connections/ Terminals	
type of electrical connection	
of modules and accessories	Screw-type terminal
type of connectable conductor cross-sections	
<ul> <li>solid with core end processing</li> </ul>	2x (0.5 0.75 mm²)
3	
solid without core end processing	2x (1.0 1.5 mm²)
<ul><li>solid without core end processing</li><li>finely stranded with core end processing</li></ul>	2x (0.5 1.5 mm²)
<ul> <li>solid without core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²)
<ul> <li>solid without core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables</li> </ul>	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14)
<ul> <li>solid without core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables</li> </ul> tightening torque of the screws in the bracket	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables  tightening torque of the screws in the bracket  tightening torque for auxiliary contacts with screw-type terminals	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14)
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables  tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals  Safety related data	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables  tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals  Safety related data proportion of dangerous failures	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables     tightening torque of the screws in the bracket     tightening torque for auxiliary contacts with screw-type terminals     Safety related data     proportion of dangerous failures     with low demand rate according to SN 31920	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables     tightening torque of the screws in the bracket     tightening torque for auxiliary contacts with screw-type terminals     Safety related data     proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables     tightening torque of the screws in the bracket     tightening torque for auxiliary contacts with screw-type terminals     Safety related data     proportion of dangerous failures         with low demand rate according to SN 31920         with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m 20 % 20 % 100 000
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables     tightening torque of the screws in the bracket     tightening torque for auxiliary contacts with screw-type terminals     Safety related data     proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables     tightening torque of the screws in the bracket     tightening torque for auxiliary contacts with screw-type terminals     Safety related data     proportion of dangerous failures         with low demand rate according to SN 31920         with high demand rate according to SN 31920     B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m 20 % 20 % 100 000
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables     tightening torque of the screws in the bracket     tightening torque for auxiliary contacts with screw-type terminals     Safety related data     proportion of dangerous failures         with low demand rate according to SN 31920         with high demand rate according to SN 31920     B10 value with high demand rate according to SN 31920     failure rate [FIT] with low demand rate according to SN 31920	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m 20 % 20 % 100 000
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables  tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals  Safety related data proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m 20 % 20 % 100 000
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables  tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals  Safety related data proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions ambient temperature	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m  20 % 20 % 100 000 100 FIT
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables     tightening torque of the screws in the bracket     tightening torque for auxiliary contacts with screw-type terminals     Safety related data     proportion of dangerous failures	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m 20 % 20 % 100 000 100 FIT
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables     tightening torque of the screws in the bracket     tightening torque for auxiliary contacts with screw-type terminals     Safety related data     proportion of dangerous failures          with low demand rate according to SN 31920          with high demand rate according to SN 31920          B10 value with high demand rate according to SN 31920     failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions     ambient temperature          during operation          during storage environmental category during operation according to IEC	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m  20 % 20 % 100 000 100 FIT  -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables     tightening torque of the screws in the bracket     tightening torque for auxiliary contacts with screw-type terminals     Safety related data     proportion of dangerous failures	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m  20 % 20 % 100 000 100 FIT  -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables  tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals  Safety related data  proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions  ambient temperature     during operation     during storage environmental category during operation according to IEC 60721  Environmental footprint	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m  20 % 20 % 100 000 100 FIT  -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables  tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals  Safety related data proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions ambient temperature     during operation     during storage environmental category during operation according to IEC 60721  Environmental Product Declaration(EPD)	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m  20 % 20 % 100 000 100 FIT  -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)
solid without core end processing     finely stranded with core end processing     finely stranded without core end processing     for AWG cables  tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals  Safety related data  proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions ambient temperature     during operation     during storage environmental category during operation according to IEC 60721  Environmental Froduct Declaration(EPD) Global Warming Potential [CO2 eq] total	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m  20 % 20 % 100 000 100 FIT  -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)  Yes 0.787 kg

Siemens Eco Profile (SEP)	Siemens EcoTech	
Installation/ mounting/ dimensions		
fastening method	front plate mounting	
<ul> <li>of modules and accessories</li> </ul>	Front plate mounting	
height	40 mm	
width	30 mm	
shape of the installation opening	round	
mounting diameter	22.3 mm	
positive tolerance of installation diameter	0.4 mm	
mounting height	46.4 mm	
installation width	75 mm	
installation depth	48.6 mm	
Accessories		
number of backing plates	1	
marking of backing plate	NOT-HALT	
color of backing plate	Yellow	
Approvals Certificates		

General Product Approval





Confirmation







**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









other

Environment

Confirmation



Siemens EcoTech



Environmental Confirmations

## Further information

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=3SU1100-1HB20-1CH0

Cax online generator

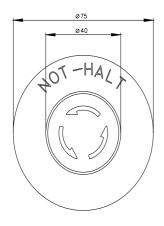
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1100-1HB20-1CH0

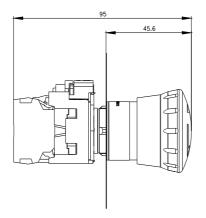
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-1HB20-1CH0

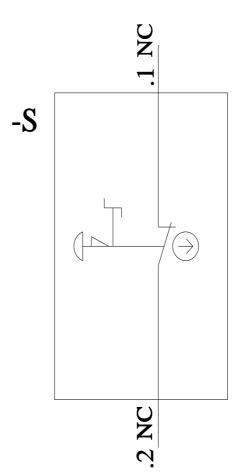
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1100-1HB20-1CH0&lang=en









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