## SIEMENS

## Data sheet

## 3SU1100-1HB20-1CG0



EMERGENCY STOP mushroom pushbutton, 22 mm, round, plastic, red, 40 mm, positive latching, acc. to EN ISO 13850, rotate-to-unlatch, with yellow backing plate, inscription: EMERGENCY STOP, 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>	<u>3SU1400-1AA10-1CA0</u>		
<ul> <li>of the supplied holder</li> </ul>	<u>3SU1550-0AA10-0AA0</u>		
<ul> <li>of the supplied actuator</li> </ul>	<u>3SU1000-1HB20-0AA0</u>		
<ul> <li>of supplied accessory</li> </ul>	<u>3SU1900-0BC31-0DA0</u>		
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		
EMERGENCY OFF function	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		

surge voltage resistance rated value	6 kV
protection class IP	IP66, IP67, IP69(IP69K)
protection class IP of the terminal	IP20
degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
shock resistance	
<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms
<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
vibration resistance	
according to IEC 60068-2-6	10 500 Hz: 5g
-	Category 1, Class B
for railway applications according to EN 61373	
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
Weight	81 g
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
where a fNO as where the few second sector at a	0
number of NO contacts for auxiliary contacts	
Connections/ Terminals	
Connections/ Terminals	Screw-type terminal
Connections/ Terminals type of electrical connection	
Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections	Screw-type terminal
Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections of with core end processing	Screw-type terminal 2x (0.5 0.75 mm²)
Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections of with core end processing of without core end processing	Screw-type terminal 2x (0.5 0.75 mm <sup>2</sup> ) 2x (1.0 1.5 mm <sup>2</sup> )
Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections solid with core end processing solid without core end processing of finely stranded with core end processing	Screw-type terminal 2x (0.5 0.75 mm <sup>2</sup> ) 2x (1.0 1.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> )
Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing	Screw-type terminal 2x (0.5 0.75 mm <sup>2</sup> ) 2x (1.0 1.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ) 2x (1,0 1,5 mm <sup>2</sup> )
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • solid without core end processing         • finely stranded with core end processing         • finely stranded without core end processing         • finely stranded without core end processing         • for AWG cables	Screw-type terminal 2x (0.5 0.75 mm <sup>2</sup> ) 2x (1.0 1.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ) 2x (1,0 1,5 mm <sup>2</sup> ) 2x (18 14)
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • 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	Screw-type terminal 2x (0.5 0.75 mm <sup>2</sup> ) 2x (1.0 1.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ) 2x (1,0 1,5 mm <sup>2</sup> ) 2x (18 14) 1 1.2 N·m
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • 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	Screw-type terminal 2x (0.5 0.75 mm <sup>2</sup> ) 2x (1.0 1.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ) 2x (1,0 1,5 mm <sup>2</sup> ) 2x (18 14)
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Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • solid without core end processing         • finely stranded with core end processing         • finely stranded with 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	Screw-type terminal 2x (0.5 0.75 mm <sup>2</sup> ) 2x (1.0 1.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ) 2x (1,0 1,5 mm <sup>2</sup> ) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m
Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections solid with core end processing solid without core end processing finely stranded with core end processing finely stranded without 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	Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         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
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • 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	Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         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
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • 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         B10 value with high demand rate according to SN 31920	Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         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
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • 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         B10 value with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN	Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         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
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Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • 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         IEC 61508         T1 value for proof test interval or service life according to IEC 61508         Ambient conditions         ambient temperature         • during operation         • during storage	Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         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
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • 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         B10 value with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         IEC 61508         T1 value for proof test interval or service life according to IEC 61508         Ambient conditions         ambient temperature         • during operation	Screw-type terminal 2x (0.5 0.75 mm <sup>2</sup> ) 2x (1.0 1.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ) 2x (1,0 1,5 mm <sup>2</sup> ) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m 20 % 20 % 20 % 100 000 100 FIT 20 a -25 +70 °C
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • 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         B10 value with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         IEC 61508         T1 value for proof test interval or service life according to IEC 61508         Ambient conditions         ambient temperature         • during operation         • during storage         environmental category during operation according to IEC	Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         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 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 a         -25 +70 °C         -40 +80 °C         3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • solid without core end processing         • finely stranded with core end processing         • finely stranded without core end processing         • finely stranded without core end processing         • for AWG cables         tightening torque of the screws in the bracket         tightening torque of auxiliary contacts with screw-type terminals         Safety related data         proportion of dangerous failures         • with low 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         failure rate [FIT] with low demand rate according to SN 31920         IEC 61508         T1 value for proof test interval or service life according to IEC 61508         Ambient conditions         ambient temperature         • during operation         • during storage         environmental category during operation according to IEC 60721         Environmental footprint	Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         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
Connections/ Terminals         type of electrical connection         • of modules and accessories         type of connectable conductor cross-sections         • solid with core end processing         • solid without core end processing         • finely stranded with core end processing         • for AWG cables         tightening torque of the screws in the bracket         tightening torque of 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         failure rate [FIT] with low demand rate according to IEC 61508         T1 value for proof test interval or service life according to IEC 61508         Ambient conditions         ambient temperature         • during operation         • during storage         environmental category during operation according to IEC 60721	Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         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 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 %         20 a         -25 +70 °C         -40 +80 °C         3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no

Global Warming Potential [CO2 eq] during manufacturing	0.560	6 ka			
Global Warming Potential [CO2 eq] during manufacturing		5 kg			
Global Warming Potential [CO2 eq] after end of life		-0.015 kg			
Siemens Eco Profile (SEP)		nens EcoTech			
Installation/ mounting/ dimensions	Cloth				
fastening method	front	plate mounting			
<ul> <li>of modules and accessories</li> </ul>		t plate mounting			
height	40 m				
width	30 m	าm			
shape of the installation opening		d			
mounting diameter		22.3 mm			
positive tolerance of installation diameter	0.4 n	nm			
mounting height	46.4	mm			
installation width		75 mm			
installation depth		48.6 mm			
Accessories					
number of backing plates	1				
marking of backing plate		EMERGENCY STOP			
color of backing plate		Yellow			
Approvals Certificates					
General Product Approval					
CCC CCC CCC CCC CCC CCC CCC CCC CCC CC	jk A	<u>Confirmation</u>	cULus	EAC	
Test Certificates other		Environment			
Type Test Certific-         Special Test Certific-         Confi           ates/Test Report         ate	firmation		Siemens EcoTech	Environmental Con- firmations	
		EFU			

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Industry Mall (Online ordering system)

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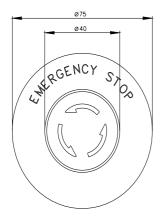
Cax online generator

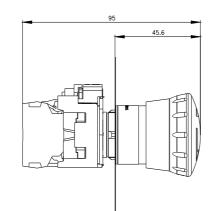
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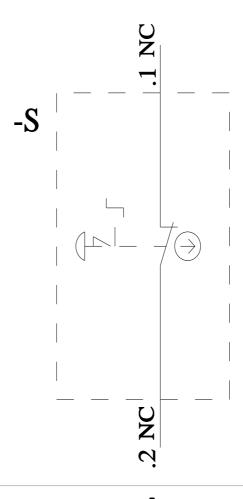
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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