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	SINIUS 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	
 of supplied contact module at position 1 	3SU1400-1AA10-1CA0
 of the supplied holder 	3SU1550-0AA10-0AA0
 of the supplied actuator 	3SU1000-1HB20-0AA0
 of supplied accessory 	3SU1900-0BC31-0DA0
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	
 positive opening 	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

SIRIUS ACT

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 15g / 11 ms
 according to IEC 60068-2-27 for railway applications according to EN 61373 	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	
 solid with core end processing 	2x (0.5 0.75 mm²)
3	
solid without core end processing	2x (1.0 1.5 mm²)
solid without core end processingfinely stranded with core end processing	2x (0.5 1.5 mm²)
 solid without core end processing finely stranded with core end processing finely stranded without core end processing 	2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²)
 solid without core end processing finely stranded with core end processing finely stranded without core end processing for AWG cables 	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	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 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	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
 of modules and accessories 	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	EMERGENCY STOP
color of backing plate	Yellow
Approvals Certificates	

General Product Approval









Confirmation



General Product Approval

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

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=3SU1100-1HB20-1CG0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1100-1HB20-1CG0

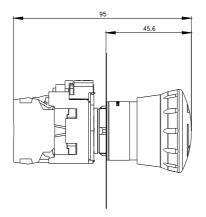
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

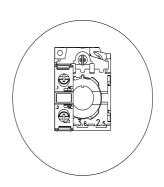
https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-1HB20-1CG0

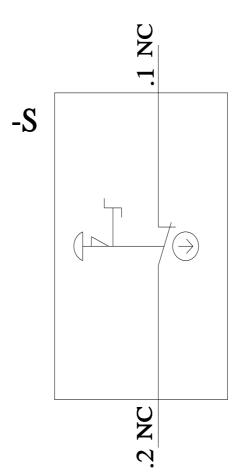
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1100-1HB20-1CG0&lang=en









last modified: 2/7/2024 🖸

