## **SIEMENS**

## **Data sheet**

## 3SU1100-1HA20-1FH0



EMERGENCY STOP mushroom-type actuator, 22 mm, round, plastic, red, 40 mm, positive latching, according to EN ISO 13850, pull-to-unlatch mechanism, with yellow backing plate, inscription: NOT-HALT, with holder, 1 NO+1 NC, screw terminal

product designation design of the product Complete unit Complete unit Plastic, black, 22 mm manufacturer's article number of supplied contact module at position 1 3SU1400-1AA10-1FA0 3SU1400-1AA10-1FA0 3SU1400-1AA10-1FA0 3SU1400-1AA10-0AA0 of the supplied cholder of the supplied accessory 3SU1900-0BC31-0AT0  Enclosure number of command points 1 Actualor design of the actuating element principle of operation of the actuating element principle of operation of the actuating element principle of operation of the actuating element product extension optional light source No color of the actuating element shape of the actuating element unmber of contact modules 1 ype of unlocking device product component front ring product component front ring Product component front ring Product component front ring Positive pening Plastic Display number of LED modules 0 Conceral technical data product function • positive opening • EMERGENCY OFF function • Yes • EMERGENCY STOP function No Insulation voltage rated value degree of pollution Jepes (Plastic) Jepes (	product brand name	SIRIUS ACT
product type designation product line Plastic, black, 22 mm manufacturer's article number  of supplied contact module at position 1 substitution of the supplied holder of the supplied holder of the supplied acutator substitution of the supplied acutator substitution of the supplied acutator of supplied accessory substitution of the substitution of substitution of substitution of the substitution of substitution	product designation	EMERGENCY STOP mushroom pushbuttons
product line Plastic, black, 22 mm manufacturer's article number  • of supplied contact module at position 1  • of the supplied actuator • of the supplied actuator • of supplied accessory  sulfusor-IHA20-0AA0  38U1900-1HA20-0AA0  38U1900-0BC31-0AT0  Enclosure  number of command points 1  Actuator  design of the actuating element product extension optional light source color of the actuating element plastic shape of the actuating element plastic shape of the actuating element round outer diameter of the actuating element plastic shape of the actuating element authorized plastic shape of the actuating element plastic shape of plastic shape of the actuating element plastic shape of plastic shape of the actuating element plastic shape of plastic shape of the actuating element plastic shape of plastic shape	design of the product	Complete unit
manufacturer's article number  • of supplied contact module at position 1  • of the supplied octuator  • of the supplied actuator  • of the supplied accessory  • of supplied accessory  • of supplied accessory  **Su11900-1HA20-0AAQ  • of supplied accessory  **Su11900-0BC31-0ATQ  **Inclusive**  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 red  product extension optional light source No  color of the actuating element round  outer diameter of the actuating element round  outer diameter of the actuating element and the public of the actuating element round  outer diameter of the actuating element nound  outer diameter of the actuating element No  outer diameter of the actuating element Public outer diameter of the actuating element No  outer diameter of the actuating element Public outer diameter of the actuating element No  type of unlocking device pull-to-unlatch mechanism  **Front ring**  product component front ring No  **No  **Holder**  material of the holder Plastic  Display  number of LED modules  o Ceneral technical data  product function  • positive opening Yes  • EMERGENCY OFF function Yes  **EMERGENCY STOP function Yes  product component light source No  insulation voltage rated value  degree of pollution  3  type of voltage of the operating voltage  ACIDC  surge voltage resistance rated value  6 kV  protection class IP	product type designation	3SU1
of supplied contact module at position 1     of the supplied holder     of the supplied actuator     of the supplied actuator     of supplied accessory     3SU1900-0BC31-0AT0  Enclosure  number of command points     design of the actuating element     principle of operation of the actuating element     product extension optional light source     outer diameter of the actuating element     product extension optional light source     shape of the actuating element     round     outer diameter of the actuating element     number of contact modules     1 type of unlocking device  Front ring  product component front ring     No  Holder  material of the holder  Display     number of LED modules     0  General technical data  product function     opositive latching     Yes     EMERGENCY OFF function     Semicons of the service of the se	product line	Plastic, black, 22 mm
of the supplied holder     of the supplied actuator     of supplied accessory     asu1000-1HA20-0AA0     of supplied accessory      reclosure  number of command points     Actuator  design of the actuating element principle of operation of the actuating element latching principle of operation of the actuating element red material of the actuating element plastic shape of the actuating element plastic shape of the actuating element round outer diameter of the actuating element anumber of contact modules type of unlocking device pull-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     opositive paning Yes e EMERGENCY OFF function Yes eproduct component light source No insulation voltage rated value 500 V  degree of pollution 3 type of voltage resistance rated value 6 &V protection class IP IRROR, IPGO,	manufacturer's article number	
of the supplied accussory	<ul> <li>of supplied contact module at position 1</li> </ul>	3SU1400-1AA10-1FA0
• of supplied accessory  Enclosure  number of command points  Actuator  design of the actuating element principle of operating element product extension optional light source number of the actuating element plastic  shape of the actuating element plastic shape of the actuating element round number of contact modules 1  type of unlocking device pull-to-unlatch mechanism  Front ring  product component front ring No  Modules  Ceneral technical data  Product function  • positive opening Yes  e.MERGENCY OFF function Yes  product component light source No  insulation voltage rated value of kIV  degree of pollution 1, 1966, IP67, IP69(IP69K)  Isolatory  Index of contacts on the contact on the contact of the contact on the c	<ul> <li>of the supplied holder</li> </ul>	3SU1550-0AA10-0AA0
Enclosure  number of command points  Actuator  design of the actuating element principle of operation of the actuating element product extension optional light source color of the actuating element product extension optional light source color of the actuating element plastic shape of the actuating element round outer diameter of the actuating element number of contact modules 1 type of unlocking device pull-to-unlatch mechanism  Front ring product component front ring No Holder material of the holder Display number of LED modules 0 General technical data product function • positive opening • positive opening • EMERGENCY OFF function • EMERGENCY STOP function • EMERGENCY STOP function insulation voltage rated value degree of pollution 1, 1966, IP67, IP69(IP69K)	<ul> <li>of the supplied actuator</li> </ul>	3SU1000-1HA20-0AA0
number of command points 1  Actuator  design of the actuating element 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 1 number of contact modules 1 type of unlocking device pull-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  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)	<ul> <li>of supplied accessory</li> </ul>	3SU1900-0BC31-0AT0
Actuator  design of the actuating element 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 pull-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 • 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/IDC surge voltage resistance rated value 6 kV protection class IP IP66 (IP67, IP69(IP69K)	Enclosure	
design of the actuating element principle of operation of the actuating element latching product extension optional light source No color of the actuating element material of the actuating element pouter diameter of the actuating element number of contact modules type of unlocking device pull-to-unlatch mechanism product component front ring No Holder material of the holder Display number of LED modules product function positive opening EMERGENCY OFF function EMERGENCY STOP function product component light source No insulation voltage rated value degree of pollution surge voltage resistance rated value protection class IP lastic Ple6, IP67, IP69(IP69K)	number of command points	1
principle of operation of the actuating element product extension optional light source color of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element number of contact modules type of unlocking device pull-to-unlatch mechanism  Front ring product component front ring holder material of the holder Display number of LED modules  General technical data product function  positive opening EMERGENCY OFF function EMERGENCY STOP function Yes product component light source insulation voltage rated value degree of pollution type of voltage of the operating voltage surge voltage resistance rated value 6 kV protection class IP  Idad Smith Standard  Product currents of the operating voltage surge voltage resistance rated value 1P66, IP67, IP69(IP69K)	Actuator	
product extension optional light source red 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 pull-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 • EMERGENCY OFF function Yes • EMERGENCY STOP function Yes product component light source No insulation voltage rated value 500 V degree of pollution surge voltage resistance rated value 6 kV protection class IP  I P66, IP67, IP69(IP69K)	design of the actuating element	positive latching
color of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element number of contact modules 1 type of unlocking device product component front ring product component front ring No Holder material of the holder Display number of LED modules O General technical data product function positive opening EMERGENCY OFF function EMERGENCY STOP function Yes Pissulation voltage rated value for Voltage of the operating voltage surge voltage resistance rated value for kV	principle of operation of the actuating element	latching
material of the actuating element round outer diameter of the actuating element 40 mm number of contact modules 1 type of unlocking device pull-to-unlatch mechanism 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 product component light source No insulation voltage rated value 500 V degree of pollution type of voltage of the operating voltage surge voltage resistance rated value 6 kV protection class IP  Indiam of the module of the module of the cast of the cast of the contact of the cast	product extension optional light source	No
shape of the actuating element outer diameter of the actuating element number of contact modules type of unlocking device pull-to-unlatch mechanism  Front ring product component front ring No  Holder material of the holder Display number of LED modules o General technical data  product function • positive opening • EMERGENCY OFF function • EMERGENCY STOP function • EMERGENCY STOP function • product component light source insulation voltage rated value degree of pollution surge voltage resistance rated value  6 kV protection class IP  1 do mm  40 mm  10 mm	color of the actuating element	red
outer diameter of the actuating element number of contact modules  type of unlocking device  pull-to-unlatch mechanism  Front ring  product component front ring  No  Holder  material of the holder  Display  number of LED modules  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  product component light source insulation voltage rated value  degree of pollution  3  type of voltage of the operating voltage  surge voltage resistance rated value  6 kV  protection class IP  IP66, IP67, IP69(IP69K)	material of the actuating element	plastic
number of contact modules  type of unlocking device  pull-to-unlatch mechanism  Front ring  product component front ring  No  Holder  material of the holder  Display  number of LED modules  o  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  product component light source insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  6 kV  protection class IP	shape of the actuating element	round
type of unlocking device pull-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  surge voltage resistance rated value 6 kV protection class IP	outer diameter of the actuating element	40 mm
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  surge voltage resistance rated value 6 kV  protection class IP IP66, IP67, IP69(IP69K)	number of contact modules	1
product component front ring  Holder  material of the holder  Display  number of LED modules  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  product component light source  insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  for No  protection class IP  No  IP66, IP67, IP69(IP69K)	type of unlocking device	pull-to-unlatch mechanism
material of the holder  Plastic  Display  number of LED modules  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  product component light source insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  for No  protection class IP  Plastic  Plastic  Plastic  Plastic   Plastic   Plastic	Front ring	
material of the holder  Display  number of LED modules  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  product component light source  insulation voltage rated value  degree of pollution 3 type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  Plastic  Plastic  Plastic  Plastic  Plastic  Plastic  Plastic  Plastic  Plastic   Plastic  Plastic  Pastic  Pastic  AC/DC	product component front ring	No
number of LED modules  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  product component light source insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  O  O  O  O  O  O  O  O  O  O  O  O  O	Holder	
number of LED modules  General technical data  product function  • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  product component light source insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  O  O  O  O  O  O  O  O  O  O  O  O  O	material of the holder	Plastic
product function  • positive opening • positive opening • EMERGENCY OFF function • EMERGENCY STOP function  product component light source  insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  Yes  Yes  No  Yes  No  No  AC/DC  Surge voltage resistance rated value  6 kV	Display	
product function  • positive opening  • EMERGENCY OFF function  • EMERGENCY STOP function  product component light source  insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  Yes  No  No  100  No  AC/DC  Surge voltage resistance rated value  6 kV  Protection class IP	number of LED modules	0
<ul> <li>positive opening</li> <li>EMERGENCY OFF function</li> <li>EMERGENCY STOP function</li> <li>Yes</li> <li>product component light source</li> <li>Insulation voltage rated value</li> <li>6 kV</li> <li>protection class IP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>No</li> <li>No</li> <li>AC/DC</li> <li>Surge voltage resistance rated value</li> <li>6 kV</li> <li>IP66, IP67, IP69(IP69K)</li> </ul>	General technical data	
● EMERGENCY OFF function  Pes  EMERGENCY STOP function  Yes  product component light source  Insulation voltage rated value  Sou V  degree of pollution  Surge voltage of the operating voltage  Surge voltage resistance rated value  Frotection class IP  Yes  No  AC/DC  AC/DC  BURGENCY STOP function  AC/DC  SURGENCY STOP FUNCTION SURGE  AC/DC  BURGENCY STOP FUNCTION SURGE  FOR IP66, IP67, IP69(IP69K)	product function	
● EMERGENCY STOP function  product component light source  No  insulation voltage rated value  500 V  degree of pollution  3  type of voltage of the operating voltage  surge voltage resistance rated value  6 kV  protection class IP  IP66, IP67, IP69(IP69K)	<ul> <li>positive opening</li> </ul>	Yes
product component light source  insulation voltage rated value  500 V  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  No  AC/DC  6 kV  Protection class IP	<ul> <li>EMERGENCY OFF function</li> </ul>	Yes
insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  500 V  AC/DC  6 kV  Protection class IP	EMERGENCY STOP function	Yes
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)	product component light source	No
type of voltage of the operating voltage  AC/DC  surge voltage resistance rated value  protection class IP  AC/DC  6 kV  IP66, IP67, IP69(IP69K)	insulation voltage rated value	500 V
surge voltage resistance rated value 6 kV protection class IP IP66, IP67, IP69(IP69K)	degree of pollution	3
protection class IP IP66, IP67, IP69(IP69K)	type of voltage of the operating voltage	AC/DC
	surge voltage resistance rated value	6 kV
of the terminal  IP20, clamping screw tightened	protection class IP	IP66, IP67, IP69(IP69K)
, stamping coloning	of the terminal	IP20, clamping screw tightened

	4 0 0 0 0 4 114 40 40
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
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
<u> </u>	(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	1
Connections/ Terminals	
type of electrical connection	
<ul> <li>of modules and accessories</li> </ul>	Screw-type terminal
type of connectable conductor cross-sections	
<ul> <li>solid with core end processing</li> </ul>	2x (0.5 0.75 mm²)
<ul> <li>solid without core end processing</li> </ul>	2x (1.0 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1,0 1,5 mm²)
• for AWG cables	2x (18 14)
tightening torque of the screws in the bracket	1 1.2 N·m
tightening torque for auxiliary contacts with screw-type terminals	0.8 0.9 N·m
Safety related data	
B10 value with high demand rate according to SN 31920	100 000
proportion of dangerous failures	
with low demand rate according to SN 31920	20 %
with high demand rate according to SN 31920	20 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
Ambient conditions	
ambient temperature	
during operation	-25 +70 °C
during operation     during storage	-40 +80 °C
environmental category during operation according to IEC	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no
60721	condensation in operation permitted for all devices behind front panel)
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	0.787 kg
Global Warming Potential [CO2 eq] during manufacturing	0.566 kg
Global Warming Potential [CO2 eq] during operation	0.235 kg
global warming potential [CO2 eq] after end of life	-0.015 kg
Installation/ mounting/ dimensions	
fastening method	front plate mounting
of modules and accessories	Front plate mounting
	40 mm
height width	
	30 mm
shape of the installation opening	round 22.3 mm
mounting diameter	

positive tolerance of installation diameter	0.4 mm	
mounting height	46.4 mm	
installation width	75 mm	
installation depth	70.6 mm	
Accessories		
number of backing plates	1	
marking of backing plate	EMERGENCY-STOP	
color of backing plate	Yellow	
Approvals Certificates		

Approvais Certificates

**General Product Approval** 

**Declaration of Con**formity





Confirmation







**Declaration of Con-**

**Test Certificates** 

Marine / Shipping



Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report







Marine / Shipping

other

**Environment** 



Confirmation

**Environmental Con**firmations

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=3SU1100-1HA20-1FH0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1100-1HA20-1FH0

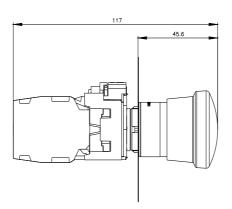
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

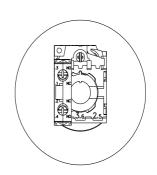
https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-1HA20-1FH0

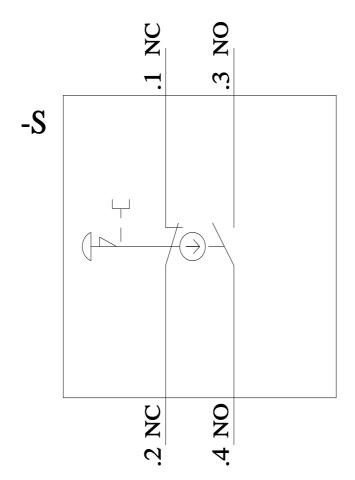
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1100-1HA20-1FH0&lang=en









last modified: 11/8/2023 🖸

