## **SIEMENS**

## **Data sheet**



Pushbutton, 22 mm, round, plastic with metal front ring, red, pushbutton, flat, momentary contact type, with holder, 1 NO, screw terminal, Z=20-unit packaging

product type designation design of the product product type designation product type designation 3SU1 product type designation 3SU1 product type designation 3SU1 product type designation anufacturer's article number • of supplied contact module at position 1 • of the supplied holder • of the supplied actuator 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 extension optional light source color of the actuating element product extension optional light source shape of the actuating element pastic shape of the actuating element plastic shape of the actuating element product omponent front ring product component front ring design of the front ring tolor of the front ring material of the front ring material of the front ring product function positive opening product degree of pollution 3 1 No product opening element No copening element No product opening element No	product brand name	SIRIUS ACT
product type designation product line Plastic with metal front ring, matt, 22 mm manufacturer's article number  • of supplied contact module at position 1 • of the supplied holder • of the supplied actuator number of command points 1  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 shape of the actuating element plastic shape of the actuating element shape of the actuating element number of contact modules 1  Front ring product component front ring design of the front ring Actuator  Standard material of the front ring Actuator  Metal, matt color of the front ring material of the front ring Netal, matt color of the front ring material of the holder Plastic  Display number of LED modules 0  General technical data product function positive opening product component light source No insulation voltage rated value degree of pollution 3 1 Yepe of voltage of the operating voltage surge voltage resistance rated value 4 (key 4 (voltage of protection NEMA rating 4 (x), 3, 3R, 4, 4X, 12, 13	product designation	Pushbuttons
product line manufacturer's article number  of supplied contact module at position 1  of the supplied holder  of the supplied actuator  number of command points  Actuator  design of the actuating element  principle of operation 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  product extension optional light source  outer diameter of the actuating element  outer diameter of the actuating element  product component front ring  product component front ring  design of the front ring  feel design of the front ring  product component front ring  design of the front ring  standard  material of the holder  pisplay  number of LED modules  O  General technical data  product component light source  No  color of the front positive opening  No  product component light source  No  insulation voltage rated value  degree of pollution  3 AC/DC  surge voltage resistance rated value  degree of protection NEMA rating  1, 2, 3, 8, 4, 4, X, 12, 13	design of the product	Complete unit
manufacturer's article number  • of supplied contact module at position 1  • of the supplied holder  • of the supplied holder  • of the supplied actuator  number of command points  Actuator  design 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  material of the actuating element  supplied actuating element  outer diameter of the actuating element  outer diameter of the actuating element  outer diameter of the actuating element  product component front ring  design of the front ring  Metal, matt  color of the front ring  Metal, matt  color of the front ring  Holder  material of the holder  Display  number of LED modules  0  General technical data  product function positive opening  product component light source  No  insulation voltage rated value  4 by of voltage of the operating voltage  AC/DC  surge voltage resistance rated value  fee, iP67, iP69(iP69K)  of the terminal  fee, iP67, iP69(iP69K)  iP66, iP67, iP69(iP69K)  of the terminal  fee of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13	product type designation	3SU1
of supplied contact module at position 1     of the supplied holder     of the supplied actuator     of the supplied actuator     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 extension optional light source     color of the actuating element     material of the actuating element     atuating element     plastic     shape of the actuating element     outer diameter of the actuating element     under diameter of the actuating element     product component front ring     design of the front ring     material of the front ring     product component front ring     product component front ring     product component front ring     material of the front ring     product component front ring     material of the font ring     material of the holder     plastic  Display     number of LED modules     O  General technical data     product function positive opening     product component light source     insulation voltage rated value     source     degree of pollution     3     type of voltage of the operating voltage     surge voltage resistance rated value     of the terminal     degree of protection NEMA rating     1, 2, 3, 3R, 4, 4X, 12, 13	product line	Plastic with metal front ring, matt, 22 mm
of the supplied holder of the supplied actuator substitution substitution of the supplied actuator substitution assuration assuration assuration assuration assuration 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 color of the actuating element red material of the actuating element shape of the actuating element outer diameter of the actuating element number of contact modules  front ring product component front ring design of the front ring standard material of the front ring Metal, matt color of the front ring Metal, matt color of the holder Plastic  Display number of LED modules  General technical data product function positive opening product component light source insulation voltage rated value degree of pollution surge voltage resistance rated value for the remainal lip20 degree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13	manufacturer's article number	
of the supplied actuator     number of command points     1  Actuator  design of the actuating element	<ul> <li>of supplied contact module at position 1</li> </ul>	3SU1400-1AA10-1BA0
number of command points  Actuator  design of the actuating element principle of operation of the actuating element momentary contact type  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 anumber of contact modules  Front ring  product component front ring Yes design of the front ring Metal, matt color of the front ring sand gray  Holder material of the holder Plastic  Display number of LED modules  O General technical data product component light source No insulation voltage rated value 500 V degree of pollution 3 type of voltage rated value 6 kV protection class IP 6 of the terminal 1, 2, 3, 3R, 4, 4X, 12, 13	<ul> <li>of the supplied holder</li> </ul>	3SU1550-0AA10-0AA0
Actuator   design of the actuating element   Button, flat   principle of operation of the actuating element   momentary contact type   product extension optional light source   No   Color of the actuating element   red   material of the actuating element   plastic   shape of the actuating element   round   couter diameter of the actuating element   29.45 mm   number of contact modules   1	of the supplied actuator	3SU1030-0AB20-0AA0
design of the actuating element principle of operation of the actuating element product extension optional light source color of the actuating element material of the actuating element outer diameter of the actuating element number of contact modules  product component front ring design of the front ring material of the front ring material of the holder Display number of LED modules  O General technical data product function positive opening product tongonent light source No insulation voltage rated value degree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13	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  Front ring product component front ring design of the front ring material of the front ring waterial of the front ring material of the holder  Display number of LED modules  General technical data product function positive opening product component light source insulation voltage rated value degree of pollution type of voltage resistance rated value of the terminal degree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13	Actuator	
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  Front ring product component front ring design of the front ring material of the front ring sand gray  Holder material of the holder  Display number of LED modules  General technical data product tomponent light source insulation voltage rated value degree of pollution type of voltage of the operating voltage of the terminal degree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13	design of the actuating element	Button, flat
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  Front ring product component front ring design of the front ring material of the front ring Metal, matt color of the front ring material of the holder  Display number of LED modules  General technical data product component light source insulation voltage rated value degree of pollution surface of the design of the terminal degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13	principle of operation of the actuating element	momentary contact type
material of the actuating element shape of the actuating element outer diameter of the actuating element number of contact modules  Front ring product component front ring design of the front ring material of the front ring Metal, matt color of the front ring material of the holder  Plastic  Display number of LED modules  General technical data product function positive opening product component light source insulation voltage rated value degree of pollution surge voltage resistance rated value of the terminal degree of protection NEMA rating  number of Leb modules  Plastic  Display No product component light source No insulation voltage rated value of kV protection class IP of the terminal outer terminal outer terminal place in the source of the place in the pl	product extension optional light source	No
shape of the actuating element outer diameter of the actuating element number of contact modules  Front ring product component front ring design of the front ring Metal, matt color of the front ring Metal, matt color of the front ring Holder material of the holder Plastic  Display number of LED modules  General technical data product component light source insulation voltage rated value degree of pollution to the of the operating voltage so the terminal degree of protection NEMA rating 1  29.45 mm 29.4	color of the actuating element	red
outer diameter of the actuating element number of contact modules  1  Front ring product component front ring design of the front ring material of the front ring  Holder material of the holder plastic  Display number of LED modules  General technical data product component light source insulation voltage rated value degree of pollution source leave the first product on temporal product on the persistance rated value for the terminal degree of protection NEMA rating  1  29.45 mm 29.45 mm 10  10  10  10  10  10  10  10  10  1	material of the actuating element	plastic
number of contact modules  Front ring  product component front ring  design of the front ring  material of the front ring  Metal, matt  color of the front ring  material of the holder  Plastic  Display  number of LED modules  General technical data  product component light source  insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  of the terminal  degree of protection NEMA rating  1  Yes  Yes  Yes  Nethoda  Plastic  Plastic  Plastic  O  O  O  O  O  O  O  O  O  O  O  O  O	shape of the actuating element	round
product component front ring  design of the front ring  material of the front ring  Metal, matt  color of the front ring  material of the holder  material of the holder  Plastic  Display  number of LED modules  General technical data  product function positive opening  product component light source  insulation voltage rated value  degree of pollution  surge voltage resistance rated value  protection class IP  of the terminal  degree of protection NEMA rating  Yes  Metal, matt  Standard  No  No  Standard  No  Standard  No  No  Standard  No  Standar	outer diameter of the actuating element	29.45 mm
product component front ring  design of the front ring  material of the holder  material of the holder  Plastic  Display  number of LED modules  o  General technical data  product function positive opening  product component light source  insulation voltage rated value  degree of pollution  surge voltage of the operating voltage  protection class IP  of the terminal  degree of protection NEMA rating  Yes  Standard  Metal, matt  Standard  Me	number of contact modules	1
design of the front ring material of the front ring Metal, matt color of the front ring sand gray  Holder material of the holder Plastic  Display number of LED modules  General technical data product function positive opening product component light source insulation voltage rated value  degree of pollution surge voltage resistance rated value of the terminal degree of protection NEMA rating  Standard Metal, matt  Metal, matt Metal, matt  Metal, matt Metal, matt  No  Plastic  Display  No  O  General technical data  product function positive opening No No insulation voltage rated value Sou V  degree of pollution 3  type of voltage of the operating voltage AC/DC  surge voltage resistance rated value for kV  Protection class IP of the terminal IP20  degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13	Front ring	
material of the front ring  color of the front ring  sand gray  Holder  material of the holder  Plastic  Display  number of LED modules  General technical data  product function positive opening  product component light source  insulation voltage rated value  degree of pollution  surge voltage of the operating voltage  protection class IP  of the terminal  degree of protection NEMA rating  Metal, matt  Metal, matt  Metal, matt  Sand gray  Metal, matt  Sand gray  Metal, matt  Sand gray  No  Delatic  No  No  Source  No  AC/DC  Surge voltage resistance rated value  fo kV  protection class IP  of the terminal  IP20  degree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13	product component front ring	Yes
color of the front ring  Holder  material of the holder  Display  number of LED modules  General technical data  product function positive opening  product component light source  insulation voltage rated value  degree of pollution  surge voltage of the operating voltage  protection class IP  of the terminal  degree of protection NEMA rating  sand gray  Plastic  No  No  Component Velatic  No  No  No  No  No  No  No  No  No  N	design of the front ring	Standard
material of the holder  Plastic  Display  number of LED modules  General technical data  product function positive opening  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  of the terminal  degree of protection NEMA rating  Plastic  Plastic  Plastic  Plastic  Plastic  AC/DC  No  AC/DC  SURVINIAN AC/DC  SURVINI	material of the front ring	Metal, matt
material of the holder  Display  number of LED modules  General technical data  product function positive opening  product component light source  insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  protection class IP  iP66, IP67, IP69(IP69K)  of the terminal  degree of protection NEMA rating  Plastic  Plastic  Plastic  Plastic  AC/DC  No  AC/DC  Surge voltage rated value  6 kV  Protection class IP  iP66, IP67, IP69(IP69K)  1P20  1, 2, 3, 3R, 4, 4X, 12, 13	color of the front ring	sand gray
number of LED modules  General technical data  product function positive opening  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  of the terminal  degree of protection NEMA rating  0  No  No  No  No  AC/DC  SURGE PORT NO  BERNA PORT NO  OR  NO  NO  NO  NO  NO  NO  NO  NO	Holder	
number of LED modules         General technical data         product function positive opening       No         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)         • of the terminal       IP20         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13	material of the holder	Plastic
product function positive opening 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 of the terminal degree of protection NEMA rating  No No No No No AC/DC SURGE PORT PORT PORT PORT PORT PORT PORT PORT	Display	
product function positive opening  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  of the terminal  degree of protection NEMA rating  No  No  No  No  AC/DC  SURGED TO S	number of LED modules	0
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  of the terminal  lP20  degree of protection NEMA rating  No  No  800  AC/DC  807  P69(IP69K)  IP66, IP67, IP69(IP69K)  IP20  Regree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13	General technical data	
insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  of the terminal  degree of protection NEMA rating  500 V  AC/DC  kV  IP66, IP67, IP69(IP69K)  IP20  IP20  IP20	product function positive opening	No
degree of pollution  type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  of the terminal  degree of protection NEMA rating  3  AC/DC  kV  IP66, IP67, IP69(IP69K)  IP20  IP20  1, 2, 3, 3R, 4, 4X, 12, 13	product component light source	No
type of voltage of the operating voltage  surge voltage resistance rated value  protection class IP  of the terminal  degree of protection NEMA rating  AC/DC  6 kV  IP66, IP67, IP69(IP69K)  IP20  1, 2, 3, 3R, 4, 4X, 12, 13	insulation voltage rated value	500 V
surge voltage resistance rated value  protection class IP  of the terminal  degree of protection NEMA rating  6 kV  IP66, IP67, IP69(IP69K)  IP20  1, 2, 3, 3R, 4, 4X, 12, 13	degree of pollution	3
protection class IP  of the terminal  degree of protection NEMA rating  IP66, IP67, IP69(IP69K)  IP20  1, 2, 3, 3R, 4, 4X, 12, 13	type of voltage of the operating voltage	AC/DC
● of the terminal IP20  degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13	surge voltage resistance rated value	6 kV
degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13	protection class IP	IP66, IP67, IP69(IP69K)
	of the terminal	IP20
shock resistance	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
anour resistance	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
vibration resistance	
<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
operating frequency maximum	3 600 1/h
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) typical	10 000 000
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
<ul> <li>at DC rated value</li> </ul>	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	0
number of NO contacts for auxiliary contacts	1
Connections/ Terminals	
type of electrical connection	screw-type terminals
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)
<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)
at AWG cables	2x (18 14)
tightening torque of the screws in the bracket	1 1.2 N·m
tightening torque with screw-type terminals	0.8 0.9 N·m
Ambient conditions	
ambient temperature	
during operation	-25 +70 °C
during storage	-40 +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)
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	11 mm
installation width	29.5 mm
installation depth	49.7 mm
Certificates/ approvals	
Further information	
Information- and Downloadcenter (Catalogs, Brochures,	)

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

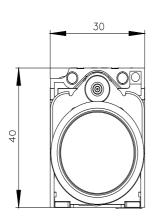
Industry Mall (Online ordering system)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1130-0AB20-1BA0-Z X90">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1130-0AB20-1BA0-Z X90</a>

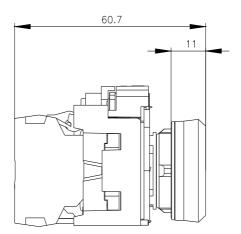
## Cax online generator

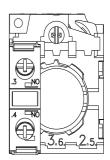
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1130-0AB20-1BA0-Z X90

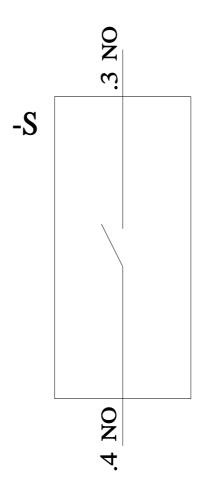
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SU1130-0AB20-1BA0-Z X90

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1130-0AB20-1BA0-Z X90&lang=en









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