## **SIEMENS**

## **Data sheet**



Pushbutton, 22 mm, round, metal, shiny, blue, pushbutton, raised, momentary contact type, with holder, 1 NO, screw terminal, Z=20-unit packaging

product designation design of the product product type designation product type designation 3SU1 product time Metal, shiny, 22 mm manufacturer's article number • of supplied contact module at position 1 • of the supplied contact module at position 1 • of the supplied contact module at position 1 • of the supplied contact module at position 1 • of the supplied actuator supplied contact module at position 1 • 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 material of the actuating element plastic shape of the actuating element couter diameter of the actuating element number of contact modules 1  Front ring  product component front ring design of the front ring Metal, high gloss color of the front ring Metal, high gloss silver  No  Concrat technical data product London positive opening No product component light source No  Concrat technical data product function positive opening No product component light source No insulation voltage rated value degree of pollution 3 1, 2, 3, 8R, 4, 4X, 12, 13  shock resistance	product brand name	SIRIUS ACT
product type designation product line Metal, shiny, 22 mm  Metal, shiny, 24 ma  Metal, shiny,	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 product extension optional light source color of the actuating element material 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  Front ring product component front ring design of the front ring material of the front ring material of the holder Display number of LED modules  OGeneral technical data product component light source No considerated value for the terminal for the t	design of the product	Complete unit
manufacturer's article number  • of supplied contact module at position 1  • of the supplied holder • of the supplied actuator • of the supplied actuator  sulfs50-0AA10-0AA0  • of the supplied actuator  sulfs50-0AA10-0AA0  **Actuator**  **Actuator**  **Actuator**  **design of the actuating element   Button, raised   momentary contact type   product extension optional light source   No   color of the actuating element   plastic   material of the actuating element   plastic   shape of the actuating element   29.45 mm   number of contact modules   1  **Front ring   product component front ring   Yes   design of the front ring   Metal, high gloss   color of the front ring   silver    **Holder   material of the holder   Plastic    **Display   number of LED modules   0  **General technical data   product tomponent 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   protection class IP   IP66, IP67, IP69(IP69K)   of the terminal   IP20   degree 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	product line	Metal, shiny, 22 mm
of the supplied holder     of the supplied actuator     asuloso-obb	manufacturer's article number	
of the supplied actuator     number of command points     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 blue material of the actuating element round outer diameter of the actuating element 29.45 mm number of contact modules 1  Front ring Yes  design of the front ring Metal, high gloss color of the front ring silver  Moder  material of the holder Plastic  Display number of LED modules 0  General technical data product function positive opening No product component light source No insulation voltage rated value 500 V  degree of pollution 1  type of voltage rosistance rated value 6 kV protection class IP of the terminal 1920 degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13	<ul> <li>of the supplied holder</li> </ul>	3SU1550-0AA10-0AA0
Actuator   Button, raised   Button, raised   principle of operation of the actuating element   momentary contact type   product extension optional light source   No   Color of the actuating element   blue   blue   material of the actuating element   plastic   shape of the actuating element   cround   couter diameter of the actuating element   29.45 mm   count of the actuating element   cround   court diameter of the actuating element   29.45 mm   count diameter of the actuating element   cround   count element   cround	of the supplied actuator	3SU1050-0BB50-0AA0
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  Front ring product component front ring design of the front ring material of the holder  Display number of LED modules  O  General technical data product function positive opening product component light source No insulation voltage rated value degree of pollution of the terminal degree of protection NEMA rating  Iblue  No insulation voltage rates value of the terminal degree of protection NEMA rating  Iblue  No insulation voltage rates value of the terminal lexical states value of the terminal lexical states value of the terminal lexical states value of the terminal of the terminal of the terminal of the holder  Plastic Display number of LED modules O  General technical data product function positive opening product component light source No insulation voltage rated value of kV protection class IP of the terminal of the front ring over the catulating voltage over the terminal over the catulating voltage vo	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 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 whetal, high gloss color of the front ring material of the holder  Display number of LED modules  General technical data product function positive opening product function positive opening product component light source insulation voltage rated value degree of pollution support teeminal degree of protection NEMA rating  Measing of the services of the actuating element plastic  No source of the front ring Standard Metal, high gloss color of the front ring silver  Plastic  Display  No source No sinsulation voltage rated value Source	Actuator	
product extension optional light source color of the actuating element blue material 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 Holder material of the holder  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 solt file terminal degree of protection NEMA rating  hour outer diameter of the setuating element plastic  No product function positive opening product component light source protection class IP of the terminal product function NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13	design of the actuating element	Button, raised
color of the actuating element material of the actuating element shape of the actuating element outer diameter of the actuating element round 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 Metal, high gloss color of the front ring whetal, high gloss color of the front ring Plastic  Display number of LED modules  General technical data product component light source insulation voltage rated value degree of pollution surge voltage resistance rated value of the terminal element  Plastic  Display Product component light source No insulation 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	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 Metal, high gloss 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 sylve of the terminal element of the terminal degree of protection NEMA rating  1  plastic  plastic  Plastic  Display No  O  General technical data product function positive opening product component light source No insulation voltage rated value degree of pollution 3 type of voltage resistance rated value 1  protection class IP of the terminal 1  plastic  Plastic  Plastic  Plastic  Display  No  Concrete the holder  No  Insulation voltage rated value AC/DC  Surge voltage resistance rated value Plastic  IP20  degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13	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 material of the front ring Metal, high gloss 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 surge voltage resistance rated value of the terminal degree of protection NEMA rating  1  29.45 mm 1  7 ves 42.45 mm 29.45 mm 40.45 mm 4	color of the actuating element	blue
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 material of the front ring silver  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  1, 2, 3, 3R, 4, 4X, 12, 13	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, high gloss  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  type of voltage of the operating voltage  surge voltage resistance rated value  of the terminal  degree of protection NEMA rating  1 Yes  Standard  Metal, high gloss  Silver  Helatic  Plastic  0  0  0  0  0  0  0  0  0  0  0  0  0	shape of the actuating element	round
product component front ring product component front ring design of the front ring Standard Metal, high gloss color of the front ring 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, high gloss Standard Metal, high gloss Standar	outer diameter of the actuating element	29.45 mm
product component front ring design of the front ring material of the front ring Metal, high gloss color of the front ring silver  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  Yes Standard Metal, high gloss silver  No silver  No  0  General technical data  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 for kV protection class IP of the terminal lP20  degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13	number of contact modules	1
design of the front ring material of the front ring material of the front ring  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 of the terminal degree of protection NEMA rating  Standard  Metal, high gloss Metal, high gloss Metal, high gloss  Metal, high gloss Metal, high gloss  No  Plastic  Display  No  O  General technical data  Product function positive opening No No Insulation voltage rated value Sou V  degree of pollution Sale Fig. (P67, IP69(IP69K) IP20  degree of protection NEMA rating Standard  Metal, high gloss  Actal  Plastic  Display  No  No Insulation voltage rated value Sou V  degree of pollution Sale Fig. (P67, IP69(IP69K)) IP66, IP67, IP69(IP69K) IP20  degree of protection NEMA rating Standard  Metal, high gloss Silver  Plastic  Display  No Source No Insulation IP20 IP20 IP20 IP20 IP20 IP20 IP20 IP20	Front ring	
material of the front ring color of the front ring silver  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 surge voltage resistance rated value  protection class IP of the terminal eventual function NEMA rating  Metal, high gloss silver  Metal, high gloss silver  Metal, high gloss silver  Metal, high gloss silver  No  10  Acide  Acide  Plastic  Display  No  No  Acide  Acide  Acide  Acide  Acide  Beging acide  Acide  Acide  Beging acide	product component front ring	Yes
color of the front ring  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  silver  Plastic  Plastic  Plastic  Plastic  Plastic  No  AC/DC  Surge voltage rated value  6 kV  Protection class IP    IP66, IP67, IP69(IP69K)    of the terminal	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  surge voltage resistance rated value  protection class IP  of the terminal  degree of protection NEMA rating  Plastic  Plastic  Plastic  Plastic  Plastic  No  AC/DC  No  No  Source  No  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 front ring	Metal, high gloss
Display       Plastic         Display       0         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	color of the front ring	silver
Display         number of LED modules       0         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	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 No Surge Voltage rated value  500 V  AC/DC  surge voltage resistance rated value 6 kV  protection class IP IP66, IP67, IP69(IP69K) IP20  1, 2, 3, 3R, 4, 4X, 12, 13	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  Surge voltage rated value  6 kV  Protection class IP  IP66, IP67, IP69(IP69K)  IP20  degree of protection NEMA rating  1, 2, 3, 3R, 4, 4X, 12, 13	number of LED modules	0
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  SOURCE  AC/DC  6 kV  IP66, IP67, IP69(IP69K)  IP20  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  1, 2, 3, 3R, 4, 4X, 12, 13	product function positive opening	No
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	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  lP20  degree of protection NEMA rating  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
	shock resistance	

<ul><li>according to IEC 60068-2-27</li></ul>	sinusoidal half-wave 15g / 11 ms
vibration resistance	
<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
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
<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)
<ul><li>at AWG cables</li></ul>	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	16.2 mm
installation width	29.5 mm
installation depth	49.7 mm
Certificates/ approvals	
Further information	
Information- and Downloadcenter (Catalogs, Brochures	1

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=3SU1150-0BB50-1BA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1150-0BB50-1BA0-Z X90

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1150-0BB50-1BA0-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=3SU1150-0BB50-1BA0-Z X90&lang=en 1/26/2022 last modified: