## SIEMENS

## Data sheet

## 3SU1103-2BF64-1BA0



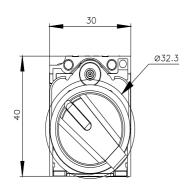
Selector switch, illuminable, 22 mm, round, plastic, white, knob, short, 2 switch positions O-I, latching, 10:30 / 13:30, with holder, with LED module, green, with integrated LED 110 V AC, 1 NO, screw terminal

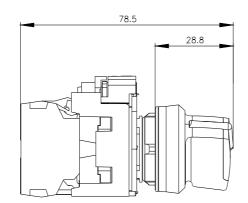
product brand name	SIRIUS ACT			
product designation	Selector switches			
design of the product	Complete unit			
product type designation	3SU1			
product line	Plastic, black, 22 mm			
manufacturer's article number				
<ul> <li>of supplied contact module at position 1</li> </ul>	<u>3SU1400-1AA10-1BA0</u>			
<ul> <li>of supplied LED module</li> </ul>	<u>3SU1401-1BC40-1AA0</u>			
<ul> <li>of the supplied holder</li> </ul>	<u>3SU1550-0AA10-0AA0</u>			
<ul> <li>of the supplied actuator</li> </ul>	<u>3SU1002-2BF60-0AA0</u>			
Enclosure				
number of command points	1			
Actuator				
design of the actuating element	Selector, short			
principle of operation of the actuating element	latching, 90° (10:30 h/13:30 h)			
product extension optional light source	Yes			
color of the actuating element	white			
material of the actuating element	plastic			
shape of the actuating element	round			
outer diameter of the actuating element	32.3 mm			
number of contact modules	1			
number of switching positions	2			
actuating angle				
clockwise	90°			
Front ring				
product component front ring	Yes			
design of the front ring	standard			
material of the front ring	plastic			
color of the front ring	black			
Holder				
material of the holder	Plastic			
Display				
number of LED modules	1			
General technical data				
product function positive opening	No			
product component light source	Yes			
insulation voltage rated value	320 V			
degree of pollution	3			
type of voltage of the operating voltage	AC/DC			
surge voltage resistance rated value	4 kV			

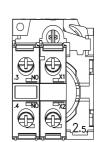
protection class IP	IP66, IP67, IP69(IP69K)			
<ul> <li>of the terminal</li> </ul>	IP20			
degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13			
shock resistance				
<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms			
<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B			
operating frequency maximum	1 800 1/h			
mechanical service life (operating cycles) typical	1 000 000			
electrical endurance (operating 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			
SVHC substance name	Blei - 7439-92-1			
	Bleimonoxid (Bleioxid) - 1317-36-8			
	2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5			
operating voltage				
• at AC	5 500.1/			
— 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)			
Supply voltage				
type of voltage of the supply voltage of the light source	AC			
supply voltage of the light source at AC				
at 50 Hz rated value	110 V			
at 60 Hz rated value	110 V			
Control circuit/ Control				
Control circuit/ Control inrush current of LED module maximum	3A			
Control circuit/ Control inrush current of LED module maximum Auxiliary circuit	3 A			
inrush current of LED module maximum				
inrush current of LED module maximum Auxiliary circuit	3 A Silver alloy 0			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts	Silver alloy			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	Silver alloy			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals	Silver alloy 0 1			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection	Silver alloy 0 1 screw-type terminals			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories	Silver alloy 0 1			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections	Silver alloy 0 1 screw-type terminals Screw-type terminal			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing	Silver alloy 0 1 screw-type terminals Screw-type terminal 2x (0.5 0.75 mm <sup>2</sup> )			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1.0 1.5 mm²)         2x (1.0 1.5 mm²)			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • for AWG cables	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1,0 1,5 mm²)         2x (1.8 14)			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1,0 1,5 mm²)         2x (1,0 1,2 N·m			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1,0 1,5 mm²)         2x (1.8 14)			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals Lamp	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1,0 1,5 mm²)         2x (1,0 1,5 mm²)         2x (18 14)         1 1.2 N·m         0.8 0.9 N·m			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals Lamp type of light source	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1.0 1,5 mm²)         2x (1.8 14)         1 1.2 N·m         0.8 0.9 N·m			
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inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals Lamp type of light source color of the light source Safety related data B10 value with high demand rate according to SN 31920	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1,0 1,5 mm²)         LED			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals Lamp type of light source color of the light source Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1.0 1.5 mm²)         1.0.0 N·m         LED         green         100 000			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals Lamp type of light source color of the light source Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1.0 1,5 mm²)         2x (18 14)         1 1.2 N·m         0.8 0.9 N·m         LED         green         100 000         20 %			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals Lamp type of light source color of the light source Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1.0 1.5 mm²)         1.0.0 N·m         LED         green         100 000			
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inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals Lamp type of light source color of the light source Safety related data B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1.0 1,5 mm²)         2x (1.0 1,5 mm²)         2x (1.8 14)         1 1.2 N·m         0.8 0.9 N·m         LED         green         100 000         20 %         20 %         20 %         20 %			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals Lamp type of light source color of the light source Safety related data B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (0.5 1.5 mm²)         2x (1.0 1,5 mm²)         2x (1.0 1,5 mm²)         2x (1.8 14)         1 1.2 N·m         0.8 0.9 N·m         LED         green         100 000         20 %         20 %         20 %         20 %			
inrush current of LED module maximum Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables tightening torque of the screws in the bracket tightening torque with screw-type terminals Lamp type of light source color of the light source Safety related data B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions ambient temperature	Silver alloy         0         1         screw-type terminals         Screw-type terminal         2x (0.5 0.75 mm²)         2x (1.0 1.5 mm²)         2x (1.0 1.2 N·m         0.8 0.9 N·m         100 000         20 %         100 FIT			

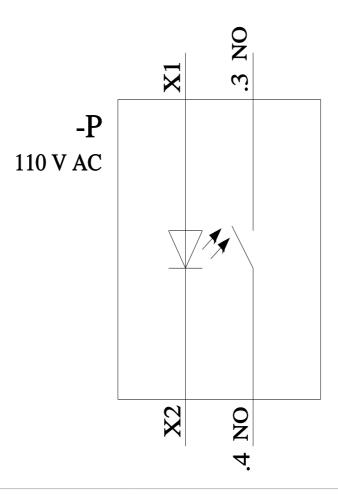
environmental catego 60721	ry during operation accordi		5, 3S2, 3B2, 3K6 (with relation permitted for all dev	ative air humidity of 10 9 vices behind front panel)	15%, no condensation in	
Environmental footpri	nt					
Environmental Produc	t Declaration(EPD)	Yes				
Global Warming Pote	ntial [CO2 eq] total	0.78	37 kg			
Global Warming Potential [CO2 eq] during manufacturing		facturing 0.56	0.566 kg			
Global Warming Potential [CO2 eq] during operation		tion 0.23	0.235 kg			
global warming potential [CO2 eq] after end of life		e -0.0	-0.015 kg			
stallation/ mounting	/ dimensions					
fastening method						
<ul> <li>of modules and accessories</li> </ul>		Fro	Front plate mounting			
height		40 ו	40 mm			
width		32.3	3 mm			
shape of the installa	tion opening	rou	nd			
mounting diameter		22.3	8 mm			
positive tolerance of	f installation diameter	0.4	mm			
mounting height		28.8	8 mm			
installation width		32.3	8 mm			
installation depth		49.1	' mm			
pprovals Certificates						
General Product Ap	proval				Declaration of Con formity	
	<u>Confirmation</u>			EHC	UK CA	
Declaration of Con- formity	Test Certificates	Marine / Shipping				
CE EG-Konf.	Type Test Certific- ates/Test Report	ABS	Llovd's Register uts	PRS	RINA	
other	Environment					
<u>Confirmation</u>	Environmental Con- firmations					
urther information						
	d to exit the Russian mar					
	.com/global/en/pressrelease on the renewal of the cur		<u>ssian-dusiness</u>			
Please contact your lo	ocal Siemens office on the s	status of validity of the E		nd to import or offer to sup	ply these products to ar	
EAC relevant market	(other than the sanctioned					
Information on the p	ackaging v.siemens.com/cs/ww/en/v	iew/109813875				
	wnloadcenter (Catalogs, I					
https://www.siemens.o						
Industry Mall (Online		alog/product/profile 0.011	102 20564 4040			
Cax online generato						
	tion.siemens.com/WW/CAX anuals, Certificates, Char		en&mlfb=3SU1103-2BF	<u>64-1BA0</u>		
	y.siemens.com/cs/ww/en/p		1			
Image database (pro	duct images, 2D dimensi	on drawings, 3D mode	s. device circuit diagrar	ns. EPLAN macros)		

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1103-2BF64-1BA0&lang=en









## last modified:

11/8/2023 🖸

3SU11032BF641BA0 Page 4/5

11/18/2023

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