## **SIEMENS**

## **Data sheet**

## 3SU1103-2BF60-1BA0





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



product designation design of the product product type designation product type designation product type designation product line manufacturer's article number  • of supplied contact module at position 1 • of supplied LED module • of the supplied contact module at position 1 • of supplied LED module • of the supplied actuator  • of the supplied actuator  • of the supplied actuator  Indicator  **Total type 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 volute diameter of the actuating element plastic shape of the actuating element product extension optional light source  **Say 1.59	p. o a de	
product type designation product line product line manufacturer's article number  • of supplied contact module at position 1 • of supplied contact module at position 1 • of supplied LED module • of the supplied holder • of the supplied actuator  • of the supplied actuator  Interview of the supplied actuator  Sul1400-1AA10-1BA0  3SU1400-1AA10-1BA0  3SU1400-1AA10-1BA0  3SU1400-1AA10-BA0  • of the supplied holder • of the supplied actuator  Interview of the supplied actuator  Sul1400-2-BE60-0AA0  Interview of the supplied actuator  Interview of the actuating element  principle of operation of the actuating element principle of operation of the actuating element product extension optional light source  Yes  color of the actuating element white material of the actuating element plastic shape of the actuating element outer diameter of the actuating element actuating element outer diameter of the actuating element source of contact modules 1 number of switching positions 2 actuating angle • olockwise 90°  Front ring  product component front ring design of the front ring standard material of the front ring black  Holder material of the holder  Plastic  Display number of LED modules 1 Ceneral technical data product function positive opening No product component light source Yes	product designation	Selector switches
product line Plastic, black, 22 mm manufacturer's article number  of supplied contact module at position 1	design of the product	Complete unit
manufacturer's article number  of supplied contact module at position 1  of supplied LED module  of the supplied holder  of the supplied actuator  Enclosure  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 white material of the actuating element shape of the actuating element  shape of the act	product type designation	3SU1
of supplied contact module at position 1     of supplied LED module     of the supplied holder     of the supplied holder     of the supplied holder     of the supplied holder     of the supplied actuator      sulfoot.2BF60-0AA0  Enclosure  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     white     material of the actuating element     round     outer diameter of the actuating element     number of contact modules     1 number of switching positions     2 actuating angle     olockwise     90°  Front ring     product component front ring     design of the front ring     plastic     color of the front ring     plastic     product omponent plastic opening     product component light source      product component light source      product component light source	product line	Plastic, black, 22 mm
of supplied LED module     of the supplied holder     of the supplied actuator      supplied actuator      supplied actuator      supplied actuator      supplied actuator      supplied actuator      number of command points      supplied 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     yes     color of the actuating element     material of the actuating element     plastic     shape of the actuating element     outer diameter of the actuating element     punder of switching positions     2     actuating angle     clockwise     90°      Front ring     product component front ring     design of the front ring     plastic     color of the front ring     plastic     color of the front ring     plastic      color of the front ring     plastic      color of the holder      plastic      Display      number of LED modules     1  General technical data      product function positive opening     No      product component light source      Yes	manufacturer's article number	
of the supplied holder     of the supplied actuator     3SU1550-0AA10-0AA0     of the supplied actuator  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     oclockwise   90°  Front ring product component front ring   yes design 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 component light source   Yes  No product component light source   Yes	<ul> <li>of supplied contact module at position 1</li> </ul>	3SU1400-1AA10-1BA0
• of the supplied actuator  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  material of the actuating element  outer diameter of the actuating element  number of contact modules  number of switching positions  actuating alge  e clockwise  90°  Front ring  product component front ring  design of the front ring  black  Holder  material of the holder  Plastic  Display  number of LED modules  1  Ceneral technical data  product component light source  Yes  1  1  1  1  1  1  1  1  1  1  1  1  1	<ul> <li>of supplied LED module</li> </ul>	3SU1401-1BC60-1AA0
Enclosure  number of command points  Actuator  design of the actuating element  principle of operation of the actuating element  product extension optional light source  Yes  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  number of switching positions  2  actuating angle  clockwise  90°  Front ring  product component front ring  design of the front ring  material of the front ring  black  Holder  material of the holder  Plastic  Display  number of LED modules  1  Ceneral technical data  product component light source  Yes	<ul> <li>of the supplied holder</li> </ul>	<u>3SU1550-0AA10-0AA0</u>
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 white material of the actuating element outer diameter or outer outer diameter of the actuating element outer diameter or outer outer diameter of the actuating element outer diameter or outer outer diameter of the source outer diameter of the	<ul> <li>of the supplied actuator</li> </ul>	3SU1002-2BF60-0AA0
design of the actuating element principle of operation of the actuating element product extension optional light source Yes color of the actuating element material of the actuating element plastic shape of the actuating element outer diameter of the actuating element number of contact modules number of switching positions clockwise 90°  Front ring product component front ring design of the front ring material of the front ring black Holder material of the holder Display number of LED modules 1 General technical data product component light source Yes	Enclosure	
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 white material of the actuating element outer diameter of the actuating element number of contact modules 1 number of switching positions 2 actuating angle • clockwise 90°  Front ring product component front ring design of the front ring material of the holder material of the holder plastic  Display number of LED modules 1 General technical data product component light source Yes  Yes  Selector, short latching, 90° (10:30 h/13:30 h) product component front element latching, 90° (10:30 h/13:30 h) product component of the actuating element round vibrite vound	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  number of switching positions  actuating angle  clockwise  clockwise  color of the front ring  material of the front ring  plastic  color of the front ring  black  Holder  material of the holder  Display  number of LED modules  1  General technical data  product component light source  Yes  Yes  Latching, 90° (10:30 h/13:30 h)  Plastic  Display  No  Product component light source	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  number of switching positions  actuating angle  • clockwise  product component front ring  product component front ring  design of the front ring  material of the front ring  black  Holder  material of the holder  Display  number of LED modules  1  General technical data  product component light source  Yes  Yes  Yes  Yes	design of the actuating element	Selector, short
color 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 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 component light source Yes	principle of operation of the actuating element	latching, 90° (10:30 h/13:30 h)
material 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 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 component light source Yes	product extension optional light source	Yes
shape of the actuating element outer diameter of the actuating element number of contact modules 1 number of switching positions 2 actuating angle • clockwise 90°  Front ring product component front ring design of the front ring material of the front ring color of the front ring hlack Holder material of the holder Display number of LED modules 1 General technical data product component light source reactions yes 1 Cound 1 Coun	color of the actuating element	white
outer diameter of the actuating element number of contact modules 1 number of switching positions 2 actuating angle • clockwise 90°  Front ring product component front ring design of the front ring material of the front ring color of the front ring material of the holder plastic Display number of LED modules 1 General technical data product component light source 7 ves	material of the actuating element	plastic
number of contact modules  number of switching positions  actuating angle  clockwise  90°  Front ring  product component front ring  design 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  1  General technical data  product component light source  1  No  product component light source  1  No  Pes  No  Pes	shape of the actuating element	round
number of switching positions  actuating angle  ● clockwise  90°  Front ring  product component front ring  design of the front ring  material of the front ring  color of the front ring  holder  material of the holder  Plastic  Display  number of LED modules  feneral technical data  product function positive opening product component light source  2  90°  Yes  Standard  plastic  plastic  Plastic  Plastic  No  No  Product component light source  Yes	outer diameter of the actuating element	32.3 mm
actuating angle	number of contact modules	1
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  Pes	number of switching positions	2
Front ring product component front ring design of the front ring material of the front ring color of the front ring black Holder material of the holder Plastic  Display number of LED modules product function positive opening product component light source Yes	actuating angle	
product component front ring  design of the front ring  material of the front ring  color of the front ring  black  Holder  material of the holder  Plastic  Display  number of LED modules  formula data  product function positive opening  product component light source  Yes	<ul><li>clockwise</li></ul>	90°
design of the front ring 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 product component light source Yes	Front ring	
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	product component front ring	Yes
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	design of the front ring	standard
Holder material of the holder  Plastic  Display  number of LED modules  1  General technical data  product function positive opening product component light source  Yes	material of the front ring	plastic
material of the holder Plastic  Display  number of LED modules 1  General technical data  product function positive opening No yes	color of the front ring	black
Display number of LED modules  General technical data product function positive opening No product component light source Yes	Holder	
number of LED modules  General technical data  product function positive opening  product component light source  Yes	material of the holder	Plastic
General technical data  product function positive opening  product component light source  Yes	Display	
product function positive opening  product component light source  No  Yes	number of LED modules	1
product component light source Yes	General technical data	
	product function positive opening	No
insulation voltage rated value 320 V	product component light source	Yes
	insulation voltage rated value	320 V

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dograp of pollution	3
degree of pollution	AC/DC
type of voltage of the operating voltage	
surge voltage resistance rated value	4 kV
protection class IP	IP66, IP67, IP69(IP69K)
protection class IP of the terminal	1P20
degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
shock resistance	sinuscidal half ways 15a / 11 mg
according to IEC 60068-2-27      according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
• for railway applications according to EN 61373	Category 1, Class B
vibration resistance	10
according to IEC 60068-2-6      for relively applications according to EN 61272	10 500 Hz: 5g
• for railway applications according to EN 61373	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	Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
Weight	65 g
operating voltage	
• at AC	
— at 50 Hz rated value	5 500 V
— at 60 Hz rated value	5 500 V
at DC rated value	5 500 V
Power Electronics	
contact reliability	One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)
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	
inrush current of LED module maximum	3 A
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 terminal
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)
• for 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
Lamp	
type of light source	LED
color of the light source	white
light intensity	900 1 400 mcd
Safety related data	
product function suitable for safety function	Yes
product function suitable for safety function test wear-related service life necessary	Yes Yes

proportion of dangerous failures	
<ul> <li>with high demand rate per NO contact according to SN 31920</li> </ul>	50 %
B10 value with high demand rate according to SN 31920	100 000
ISO 13849	
device type according to ISO 13849-1	3
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value for proof test interval or service life according to IEC 61508	20 a
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +70 °C
during storage	-40 +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no 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
Siemens Eco Profile (SEP)	Siemens EcoTech
Installation/ mounting/ dimensions	
fastening method	
<ul> <li>of modules and accessories</li> </ul>	Front plate mounting
height	40 mm
width	32.3 mm
shape of the installation opening	round
mounting diameter	22.3 mm
positive tolerance of installation diameter	0.4 mm
mounting height	28.8 mm
installation width	32.3 mm
installation depth	49.7 mm
Approvals Certificates	



**General Product Approval** 







other

Confirmation

Environmental Confirmations

Environment

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3SU1103-2BF60-1BA0

Cax online generator

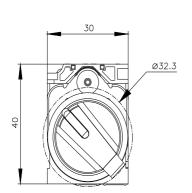
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1103-2BF60-1BA0

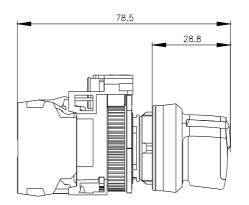
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

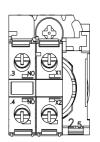
https://support.industry.siemens.com/cs/ww/en/ps/3SU1103-2BF60-1BA0

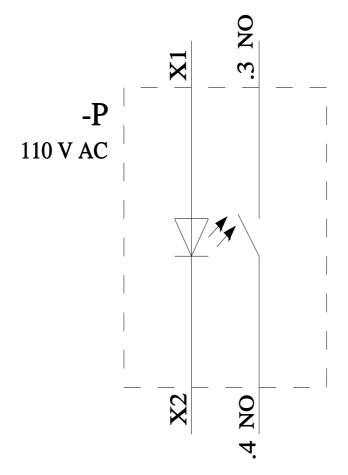
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

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