# SIEMENS

### Data sheet

## 3SU1150-7BF88-1QA0



Coordinate switch, 22 mm, round, metal shiny, black, 4 switch positions, momentary contact type, with mechanical interlocking, in O position, with holder, 1 NO, 1 NO, 1 NO, 1 NO, screw terminal,

<b>•</b>			
product brand name	SIRIUS ACT		
product designation	Coordinate switches		
design of the product	Complete unit		
product type designation	3SU1		
product line	Metal, shiny, 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 contact module at position 2</li> </ul>	<u>3SU1400-1AA10-1BA0</u>		
<ul> <li>of supplied contact module at position 3</li> </ul>	<u>3SU1400-1AA10-1BA0</u>		
<ul> <li>of supplied contact module at position 4</li> </ul>	<u>3SU1400-1AA10-1BA0</u>		
<ul> <li>of the supplied holder</li> </ul>	<u>3SU1550-0BA10-0AA0</u>		
<ul> <li>of the supplied actuator</li> </ul>	<u>3SU1050-7BF88-0AA0</u>		
Enclosure			
shape of the enclosure front	round		
Actuator			
design of the actuating element	with mechanical interlocking		
principle of operation of the actuating element	momentary contact type		
direction of actuation	horizontal / vertical		
product extension optional light source	No		
color of the actuating element	black		
material of the actuating element	plastic		
shape of the actuating element	Extended handle		
outer diameter of the actuating element	30.5 mm		
number of contact modules	4		
type of unlocking device	push-to-unlatch mechanism		
number of switching positions	4		
Maximum deflection angle [°]	30°		
Front ring			
product component front ring	Yes		
design of the front ring	high		
material of the front ring	Metal, high gloss		
color of the front ring	silver		
Holder			
material of the holder	Plastic		
General technical data			
product function positive opening	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	IP65, IP67
of the terminal	IP20
shock resistance	
according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance	
according to IEC 60068-2-6	10 500 Hz: 5g
operating frequency maximum	2 400 1/h
mechanical service life (operating cycles)	
<ul> <li>as operating period per direction of actuation typical</li> </ul>	500 000
electrical endurance (operating cycles) typical	10 000 000
electrical endurance (operating cycles) with contactors 3RT1015 to 3RT1026 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
• 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)
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	4
Connections/ Terminals	
type of electrical connection of modules and accessories	Screw-type terminal
type of connectable conductor cross-sections	
solid with core end processing	2x (0.5 0.75 mm <sup>2</sup> )
solid without core end processing	2x (1.0 1.5 mm <sup>2</sup> )
finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> )
finely stranded without core end processing	2x (1,0 1,5 mm <sup>2</sup> )
for AWG cables     tightening targue of the screwe in the bracket	2x (18 14) 1 1.2 N·m
tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals	0.8 1 N·m
lightening torque for adxillary contacts with screw-type terminals	
Safety related data	0.0 I IN'III
Safety related data B10 value with high demand rate according to SN 31920	
B10 value with high demand rate according to SN 31920	250 000
B10 value with high demand rate according to SN 31920 proportion of dangerous failures	250 000
B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	250 000 20 %
<ul> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li> </ul>	250 000
B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	250 000 20 % 20 %
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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	250 000 20 % 20 %
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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	250 000 20 % 20 %
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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	250 000 20 % 20 % 100 FIT
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation	250 000 20 % 20 % 100 FIT -25 +70 °C
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation         • during storage         environmental category during operation according to IEC 60721	250 000 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation         • during storage         environmental category during operation according to IEC 60721         Installation/ mounting/ dimensions	250 000 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation         • during storage         environmental category during operation according to IEC 60721         Installation/ mounting/ dimensions         fastening method	250 000 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation         • during storage         environmental category during operation according to IEC 60721         Installation/ mounting/ dimensions         fastening method         • of modules and accessories	250 000 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting Front plate mounting Front plate mounting
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation         • during storage         environmental category during operation according to IEC 60721         Installation/ mounting/ dimensions         fastening method         • of modules and accessories         height	250 000 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting Front plate mounting Front plate mounting 40 mm
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation         • during storage         environmental category during operation according to IEC 60721         Installation/ mounting/ dimensions         fastening method         • of modules and accessories         height         width	250 000 20 % 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting Front plate mounting Front plate mounting 40 mm 40 mm
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation         • during storage         environmental category during operation according to IEC 60721         Installation/ mounting/ dimensions         fastening method         • of modules and accessories         height         width         shape of the installation opening	250 000 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting Front plate mounting 40 mm 40 mm round
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation         • during storage         environmental category during operation according to IEC 60721         Installation/ mounting/ dimensions         fastening method         • of modules and accessories         height         width         shape of the installation opening         mounting diameter	250 000 20 % 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting Front plate mounting 40 mm 40 mm round 22.3 mm
B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low 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         • during operation         • during storage         environmental category during operation according to IEC 60721         Installation/ mounting/ dimensions         fastening method         • of modules and accessories         height         width         shape of the installation opening	250 000 20 % 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting Front plate mounting Front plate mounting 40 mm 40 mm round

installation width		30.5	mm		
installation depth		53.7	mm		
Certificates/ approvals					
General Product App	roval				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	Special Test Certific- ate	ABS	Lloyds Register urs	PRS
Marine / Shipping	other	Environment			
RINA	Confirmation	Environmental Con- firmations			

Siemens has decided to exit the Russian market (see here).

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Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1150-7BF88-1QA0

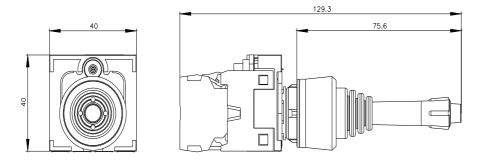
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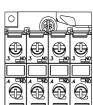
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1150-7BF88-1QA0

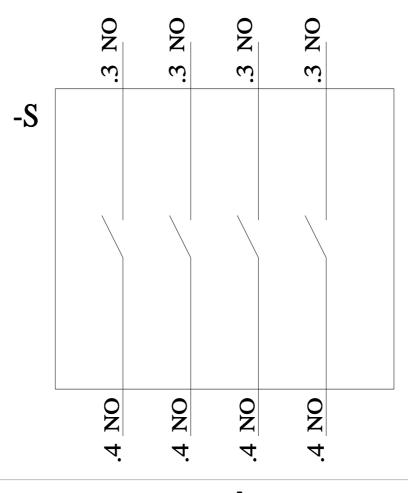
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1150-7BF88-1QA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1150-7BF88-1QA0&lang=en







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