SIEMENS

Data sheet

3SU1150-7BB88-1NA0-Z X90



Coordinate switch, 22 mm, round, metal shiny, black, 2 switch positions, vertical latching, with mechanical interlocking, in O position, with holder, 1 NO, 1 NO, screw terminal, Z=20-unit packaging

+	
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	
 of supplied contact module at position 2 	<u>3SU1400-1AA10-1BA0</u>
 of supplied contact module at position 4 	<u>3SU1400-1AA10-1BA0</u>
 of the supplied holder 	<u>3SU1550-0BA10-0AA0</u>
 of the supplied actuator 	<u>3SU1050-7BB88-0AA0</u>
Enclosure	
shape of the enclosure front	round
Actuator	
design of the actuating element	with mechanical interlocking
principle of operation of the actuating element	latching
direction of actuation	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	2
type of unlocking device	push-to-unlatch mechanism
number of switching positions	2
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 (switching cycles)	
 as operating period per direction of actuation typical 	100 000
electrical endurance (switching cycles) typical	10 000 000
electrical endurance (switching cycles) with	10 000 000
contactors 3RT1015 to 3RT1026 typical	
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	2
Connections/ Terminals	-
turne of electrical connection of modules and ecoecoeries	Carou type terminal
type of electrical connection of modules and accessories	Screw-type terminal
type of connectable conductor cross-sections	
type of connectable conductor cross-sections • solid with core end processing	2x (0.5 0.75 mm²)
type of connectable conductor cross-sections solid with core end processing solid without core end processing 	2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²)
type of connectable conductor cross-sections solid with core end processing solid without core end processing finely stranded with core end processing 	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²)
 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 	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²)
 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 at AWG cables 	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14)
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 • at AWG cables tightening torque of the screws in the bracket	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m
 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 at AWG cables 	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14)
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m
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 • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals Safety related data	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals Safety related data B10 value with high demand rate according to SN 31920	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 %
 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 at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN 31920 	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 % 20 %
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 % 20 %
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions ambient temperature	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 % 20 % 100 FIT
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions ambient temperature • during operation	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 % 20 % 100 FIT -25 +70 °C
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 during operation • during storage	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions ambient temperature • during operation	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 % 20 % 100 FIT -25 +70 °C
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 at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 during operation during storage environmental category during operation according to IEC 	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 % 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 during operation • during operation • during storage environmental category during operation according to IEC 60721	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 % 20 % 20 % 100 FIT -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no
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 • at AWG cables tightening torque of the screws in the bracket tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 during operation • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 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)
type of connectable conductor cross-sections solid with core end processing solid without core end processing finely stranded with core end processing at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 Installation/ mounting/ dimensions fastening method	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 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
type of connectable conductor cross-sections solid with core end processing solid without core end processing finely stranded with core end processing at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 with high demand rate according to SN 31920 failure rate [FIT] with low 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	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 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
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 • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 • with high demand rate according to SN 31920 failure rate [FIT] with low 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	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 20 % 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 Front plate mounting 40 mm
type of connectable conductor cross-sections • solid with core end processing • solid without core end processing • finely stranded with core end processing • at AWG cables tightening torque of the screws in the bracket tightening torque for auxiliary contacts with screw-type terminals 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 failure rate [FIT] with low 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	2x (0.5 0.75 mm ²) 2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 1 1.2 N·m 0.8 1 N·m 100 000 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

positive tolerance of installation diameter	0.4 mm
mounting height	75.6 mm
installation width	30.5 mm
installation depth	53.7 mm
Certificates/ approvals	
Further information	

Further information

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=3SU1150-7BB88-1NA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1150-7BB88-1NA0-Z X90

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SU1150-7BB88-1NA0-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=3SU1150-7BB88-1NA0-Z X90&lang=en

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