SIEMENS

Data sheet

3SU1130-7BA10-1NA0-Z X90



Coordinate switch, 22 mm, round, plastic with metal front ring, black, 2 switch positions, horizontal 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	Plastic with metal front ring, matt, 22 mm
manufacturer's article number	
 of supplied contact module at position 1 	<u>3SU1400-1AA10-1BA0</u>
 of supplied contact module at position 3 	3SU1400-1AA10-1BA0
 of the supplied holder 	3SU1500-0BA10-0AA0
of the supplied actuator	<u>3SU1030-7BA10-0AA0</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	horizontal
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, matt
color of the front ring	sand gray
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	
• acc. to IEC 60068-2-27	Sinusoidal half-wave 50g / 11 ms
 for railway applications acc. to DIN EN 61373 	Category 1, Class B
vibration resistance	
• acc. to IEC 60068-2-6	10 500 Hz: 5q
 for railway applications acc. to DIN EN 61373 	Category 1, Class B
operating frequency maximum	3 600 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 contactors 3RT1015 to 3RT1026 typical	10 000 000
thermal current	10 A
reference code acc. 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
operating voltage at AC	
— at 50 Hz rated value	5 500 V
— at 60 Hz rated value	5 500 V
operating voltage at DC rated value	5 500 V
Power Electronics	
contact reliability	One maloperation per 100 million (17 V, 5 mA), one maloperation per 10
contact reliability	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	
type of electrical connection of modules and accessories	Screw-type terminal
type of connectable conductor cross-sections	
a colid with core and processing	
 solid with core end processing 	2x (0.5 0.75 mm²)
 solid with core end processing solid without core end processing 	2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²)
 solid without core end processing 	2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²)
solid without core end processingfinely stranded with core end processing	2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²)
 solid without core end processing finely stranded with core end processing finely stranded without core end processing 	2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²)
 solid without core end processing finely stranded with core end processing finely stranded without core end processing at AWG cables 	2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14)
 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- 	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
 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 	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
 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 (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
 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 acc. to SN 31920	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
 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 acc. to SN 31920 proportion of dangerous failures 	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
 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 acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 	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 %
 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 acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to 	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 %
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 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 acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 Ambient conditions	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 20 y -25 +70 °C -40 +80 °C
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height	40 mm
width	40 mm
shape of the installation opening	round
mounting diameter	22.3 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	

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

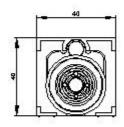
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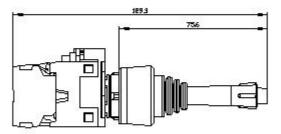
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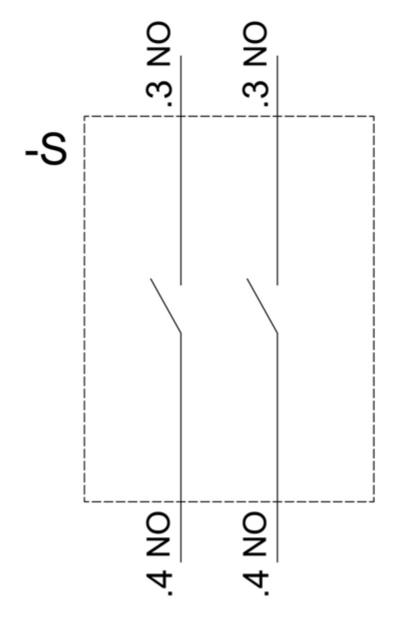
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1130-7BA10-1NA0-Z X90&lang=en









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