SIEMENS

Data sheet

3SU1100-7AE10-1QA0-Z X90



Coordinate switch, 22 mm, round, plastic, black, 4 switch positions, latching, without mechanical interlocking, in O position, with holder, 1 NO, 1 NO, 1 NO, 1 NO, screw terminal, Z=20-unit packaging

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product brand name	SIRIUS ACT
product designation	Coordinate switches
design of the product	Complete unit
product type designation	3SU1
product line	Plastic, black, 22 mm
manufacturer's article number	
 of supplied contact module at position 1 	<u>3SU1400-1AA10-1BA0</u>
 of supplied contact module at position 2 	<u>3SU1400-1AA10-1BA0</u>
 of supplied contact module at position 3 	<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>3SU1000-7AE10-0AA0</u>
Enclosure	
shape of the enclosure front	round
Actuator	
design of the actuating element	without mechanical interlock
principle of operation of the actuating element	latching
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
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	plastic
color of the front ring	black
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

protection class IP

surge voltage resistance rated value

IP65, IP67

6 kV

 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)	
 as operating period per direction of actuation typical 	100 000
electrical endurance (operating cycles) typical	10 000 000
electrical endurance (operating cycles) with contactors	10 000 000
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 mÅ)
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	
	2x (0.5 0.75 mm²)
solid with core end processing	
solid with core end processingsolid without core end processing	2x (1.0 1.5 mm ²)
 solid with core end processing solid without core end processing finely stranded with core end processing 	2x (1.0 1.5 mm ²) 2x (0.5 1.5 mm ²)
 solid with core end processing 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 with core end processing solid without core end processing finely stranded with core end processing finely stranded without core end processing for 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 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 	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 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 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)
 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 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 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 for auxiliary contacts with screw-type terminals Safety related data B10 value with high demand rate according 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
solid with core end processing solid without core end processing inely stranded with core end processing inely stranded without core end processing for 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	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 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 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 (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 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 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 	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 %
 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 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 (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 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 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 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 %
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 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 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 during operation 	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
 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 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 Ambient conditions ambient temperature during operation during storage 	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
 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 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 Ambient conditions auron operation during operation during storage environmental category during operation according to IEC 	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 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no
 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 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 Ambient conditions ambient temperature during operation during storage environmental category during operation according to IEC 60721 	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
 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 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 auting operation during storage environmental category during operation according to IEC 60721 	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)
 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 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 Ambient temperature during operation during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions 	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
 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 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 during operation during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method of modules and accessories 	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
 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 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 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 (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
 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 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 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 (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 Front plate mounting 40 mm 40 mm
 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 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 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 	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 round
 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 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 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions ambient temperature 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 	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 40 mm 40 mm round 22.3 mm
 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 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 proportion of dangerous failures with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions ambient temperature 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 positive tolerance of installation diameter 	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 40 mm 40 mm 70 md 22.3 mm 0.4 mm
 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 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 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions ambient temperature 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 	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 40 mm 40 mm round 22.3 mm

installation depth

Certificates/ approvals

Further information

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

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

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).

53.7 mm

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=3SU1100-7AE10-1QA0-Z X90

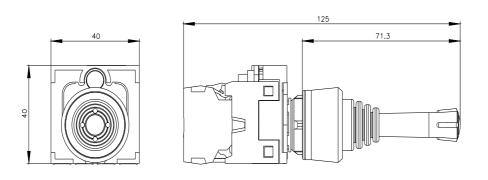
Cax online generator

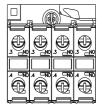
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1100-7AE10-1QA0-Z X90

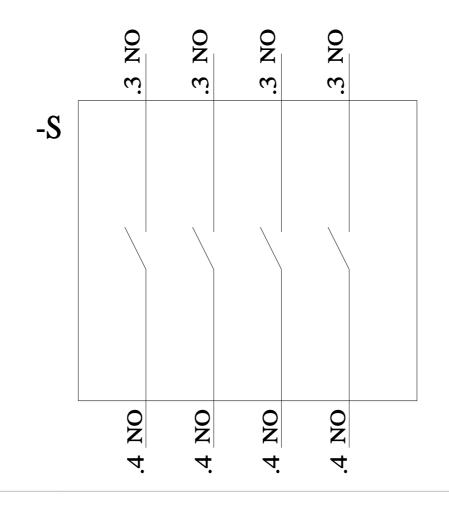
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-7AE10-1QA0-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=3SU1100-7AE10-1QA0-Z X90&lang=en







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