3SU1130-7AF10-1QA0-Z X90





Coordinate switch, 22 mm, round, plastic with metal front ring, black, 4 switch positions, momentary contact type, without mechanical interlocking, in O position, with holder, 1 NO, 1 NO, 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 	3SU1400-1AA10-1BA0
 of supplied contact module at position 2 	3SU1400-1AA10-1BA0
 of supplied contact module at position 3 	3SU1400-1AA10-1BA0
 of supplied contact module at position 4 	3SU1400-1AA10-1BA0
 of the supplied holder 	3SU1500-0BA10-0AA0
 of the supplied actuator 	3SU1030-7AF10-0AA0
Enclosure	
shape of the enclosure front	round
Actuator	
design of the actuating element	without mechanical interlock
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
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, 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

surge voltage resistance rated value protection class IP P85, IP67 P920 P85, IP67 P920 P85, IP67 P920 P85, IP67 P920		A 0/D 0
Post	type of voltage of the operating voltage	AC/DC
* of the terminal shock resistance		
shock resistance a.c. to IEC 80068-2-27 braining splications acc. to DIN EN 61373 vibration resistance a.c. to IEC 60068-2-6 braining splications acc. to DIN EN 61373 Category 1, Class B 10 500 Hz: 5g Category 1, Class B 11 500 Hz: 5g Category 1, Class B Category 1, Class B Category 1, Class B Category 1, Class B 12 500 Hz Category 1, Class B Category 1, Cl	•	
* cot to IEC 80088-2-27 * for railway applications acc. to DIN EN 61373 * for railway applications acc. to DIN EN 61373 * for railway applications acc. to DIN EN 61373 * coperating frequency maximum mechanical service life (switching cycles) * as operating period per direction of actuation typical electrical endurance (switching cycles) * as operating period per direction of actuation typical electrical endurance (switching cycles) with contactors 3RT1016 to 3RT1028 typical * discrete code acc. to IEC 81346-2 * operating voltage at AC * operating voltage * operating voltage at AC * operating voltage at AC		IP20
• for railway applications acc. to DIN EN 61373 Category 1, Class B		Circuratidal half wave FOr / 44 mg
Vibration resistance * acc. to IEC 60068-2-6 * for railway applications acc. to DIN EN 61373 Category 1, Class B 3600 /th		ŭ
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• for railway applications acc. to DIN EN 61373 operating frequency maximum mechanical savrice life (extitching cycles) • as operating period per direction of actuation typical electrical endurance (switching cycles) with contactors 3RT1018 to 3RT1026 typical thermal current reference code acc. to LEC 81346-2 continuous current of the C characteristic MCB continuous current of the Quick DIAZED fuse link g • operating voltage at AC — at 50 Hz rated value • operating voltage at AC — at 50 Hz rated value • operating voltage at AC — at 60 Hz rated value • operating voltage at DC rated value • opera		40 F00 H=: F=
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operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value — operating voltage at DC rated value — operating value val	continuous current of the quick DIAZED fuse link	10 A
- at 50 Hz rated value 5 500 V - at 60 Hz rated value 5 500 V Power Electronics Contact reliability		10 A
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- at 60 Hz rated value operating voltage at DC rated value operating voltage at DC rated value ontact 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 number of NC contacts for auxiliary contacts one to contact so auxiliary contac		5 500 V
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Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts type of electrical connection of modules and accessories type of connectable conductor cross-sections	Power Electronics	
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts type of electrical connection of modules and accessories type of connectable conductor cross-sections	contact reliability	One maloperation per 100 million (17 V, 5 mA), one maloperation per 10
Silver alloy Contacts for auxiliary contacts Contacts for auxiliary contacts Connections of NC contacts for auxiliary contacts Connections of Terminals	· · · · · · · · · · · · · · · · · · ·	
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type of electrical connection of modules and accessories 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 acc. to SN 31920 • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 11 value for proof test interval or service life acc. to IEC 61508 Ambient conditions • ambient temperature during operation acc. to IEC 60721 Installation/ mounting/ dimensions Solid with core end processing 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1.0 1.5 mm²) 2x (1.0 1.5 mm²) 2x (1.0 1.5 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1.0	number of NO contacts for auxiliary contacts	4
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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 • 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 • ambient temperature during operation • ambient temperature during storage • ambient temperature during operation acc. to IEC 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel) Installation/ mounting/ dimensions	tightening torque of the screws in the bracket	1 1.2 N·m
### Proportion of dangerous failures With low demand rate acc. to SN 31920 20 %	9 9 1	0.8 1 N·m
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 • ambient temperature during operation • ambient temperature during storage environmental category during operation acc. to IEC 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel) Installation/ mounting/ dimensions	Safety related data	
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 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 ambient temperature during operation ambient temperature during storage environmental category during operation acc. to IEC 60721 M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel) 	-	
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T1 value for proof test interval or service life acc. to IEC 61508 Ambient conditions • ambient temperature during operation • ambient temperature during storage environmental category during operation acc. to IEC 60721 Installation/ mounting/ dimensions 20 y 20 y 21	 with high demand rate acc. to SN 31920 	20 %
Ambient conditions	failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
 ambient temperature during operation ambient temperature during storage ambient temperature during operation <li< td=""><td>•</td><td>20 y</td></li<>	•	20 y
• ambient temperature during storage environmental category during operation acc. to IEC 60721 Installation/ mounting/ dimensions -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)	Ambient conditions	
• ambient temperature during storage environmental category during operation acc. to IEC 60721 Installation/ mounting/ dimensions -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)	ambient temperature during operation	-25 +70 °C
environmental category during operation acc. to IEC 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel) Installation/ mounting/ dimensions		
Installation/ mounting/ dimensions	environmental category during operation acc. to IEC	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no
		condensation in operation permitted for all devices behind front panel)
fastening method front panel mounting	Installation/ mounting/ dimensions	
	fastening method	front panel mounting

 of modules and accessories 	Front plate mounting
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	71.3 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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1130-7AF10-1QA0-Z X90

Cax online generator

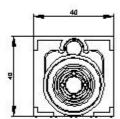
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1130-7AF10-1QA0-Z X90

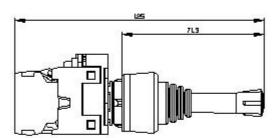
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1130-7AF10-1QA0-Z X90

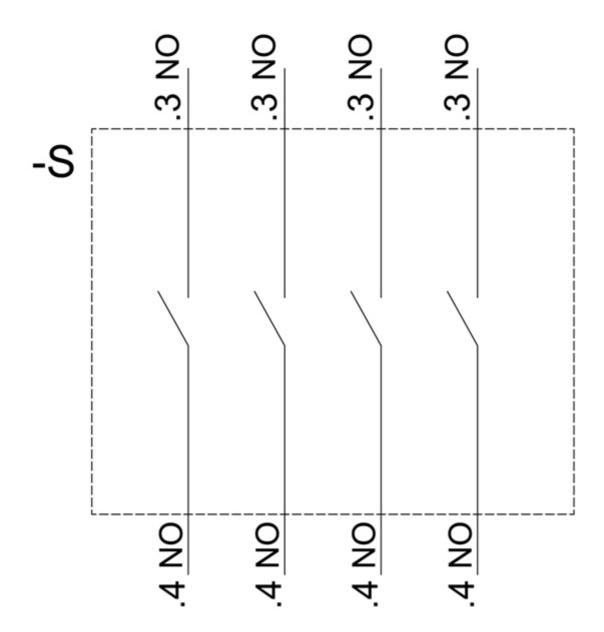
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1130-7AF10-1QA0-Z X90&lang=en









last modified: 8/31/2020 🖸