3SU1400-1AA10-3MA0-Z X90

Data sheet



Contact module with 1 contact element, 1 NC, gold-plated contacts, spring-type terminal, for front plate mounting, Z=150-unit packaging

product designation product type designation General technical data product function positive opening insulation voltage rated value degree of pollution type of voltage of the operating voltage of the operating voltage of the enclosure of the enclosure of the enclosure of the terminal IP20 shock resistance acc. to IEC 60068-2-7 of railway applications acc. to DIN EN 61373 vibration resistance occ. to IEC 60068-2-6 or railway applications acc. to DIN EN 61373 category 1, Class B categor	product brand name	SIRIUS ACT
product function positive opening insulation voltage rated value 500 V degree of pollution 3 stype of voltage and	product designation	Contact module
product function positive opening insulation voltage rated value degree of pollution type of voltage of the input voltage of the operating voltage of the operating voltage of the input voltage AC/DC surge voltage resistance rated value protection class IP of the enclosure of the terminal IP20 shock resistance ac. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373 vibration resistance of railway applications acc. to DIN EN 61373 category 1, Class B in the railway applications acc. to DIN EN 61373 operating frequency maximum mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical thermal current reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB operating voltage at AC — at 50 Hz rated value operating voltage at DC rated value	product type designation	3SU1
insulation voltage rated value degree of pollution type of voltage of the operating voltage AC/DC AC/DC surge voltage resistance rated value Fortection class IP of the enclosure IP40 IP20 sinusoidal half-wave 50g / 11 ms Category 1, Class B vibration resistance acc. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373 Category 1, Class B vibration resistance acc. to IEC 60068-2-6 of ror railway applications acc. to DIN EN 61373 Category 1, Class B vibration resistance acc. to IEC 60068-2-6 Sometime of the enciosure operating frequency maximum acceptable of the enciosure acc. to IEC 60068-2-6 Sometime of the enciosure acc. to IEC 60068-2-7 Sometime of the enciosure acc. to IEC 61346-2 Sometime of the enciosure acc. to IEC 6104-11 ms acc	General technical data	
degree of pollution type of voltage	product function positive opening	Yes
type of voltage	insulation voltage rated value	500 V
of the input voltage of the input voltage of the input voltage surge voltage resistance rated value protection class IP of the enclosure of the terminal input shock resistance oc. to IEC 60068-2-27 of or railway applications acc. to DIN EN 61373 vibration resistance oc. to IEC 60068-2-6 or railway applications acc. to DIN EN 61373 category 1, Class B operating frequency maximum mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical thermal current reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB operating voltage at AC operating voltage at AC operating voltage at DC rated value operating voltage a	degree of pollution	3
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protection class IP	 of the input voltage 	AC/DC
of the enclosure of the terminal shock resistance acc. to IEC 60068-2-27 of railway applications acc. to DIN EN 61373 vibration resistance acc. to IEC 60068-2-6 of railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance acc. to IEC 60068-2-6 of railway applications acc. to DIN EN 61373 operating frequency maximum acount of Iec (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical thermal current 10 A reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB operating voltage at AC -at 50 Hz rated value -at 60 Hz rated value operating voltage at DC rated value operating voltage at DC rated value operating voltage at DC rated value one adoperation 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 1	surge voltage resistance rated value	6 kV
of the terminal shock resistance oacc. to IEC 60068-2-27 of railway applications acc. to DIN EN 61373 vibration resistance oacc. to IEC 60068-2-6 or railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance oacc. to IEC 60068-2-6 of railway applications acc. to DIN EN 61373 category 1, Class B operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical 10 000 000 thermal current 10 A reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB operating voltage at AC	protection class IP	
shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B 10 500 Hz: 5g • for railway applications acc. to DIN EN 61373 category 1, Class B Operating frequency maximum mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical 10 000 000 thermal current 10 A reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB • operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value 5 500 V • operating voltage at DC rated value • operating	 of the enclosure 	IP40
Sinusoidal half-wave 50g / 11 ms for railway applications acc. to DIN EN 61373 vibration resistance	of the terminal	IP20
of railway applications acc. to DIN EN 61373 vibration resistance	shock resistance	
vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 category 1, Class B operating frequency maximum mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical 10 000 000 thermal current 10 A reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB • operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value 5 500 V • operating voltage at DC rated value	• acc. to IEC 60068-2-27	Sinusoidal half-wave 50g / 11 ms
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of railway applications acc. to DIN EN 61373 operating frequency maximum	vibration resistance	
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electrical endurance (switching cycles) typical thermal current reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB • operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value • operating voltage at DC rated value • operating voltage at DC rated value • operating voltage at DC rated value • 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 1	operating frequency maximum	3 600 1/h
thermal current reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value operating voltage at DC rated value operating voltage at DC rated value operating voltage at DC rated value substituting the 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 number of NC contacts for auxiliary contacts 1	mechanical service life (switching cycles) typical	10 000 000
reference code acc. to IEC 81346-2 continuous current of the C characteristic MCB operating voltage at AC - at 50 Hz rated value - at 60 Hz rated value operating voltage at DC rated value 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 number of NC contacts for auxiliary contacts	electrical endurance (switching cycles) typical	10 000 000
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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 voltage at DC rated value operating voltage at DC rated value 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 number of NC contacts for auxiliary contacts 1	reference code acc. to IEC 81346-2	S
— 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 million (5 V, 1 mA) Auxiliary circuit design of the contact of auxiliary contacts Gold-plated number of NC contacts for auxiliary contacts 1	continuous current of the C characteristic MCB	10 A
— 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 million (5 V, 1 mA) Auxiliary circuit design of the contact of auxiliary contacts Gold-plated number of NC contacts for auxiliary contacts 1	 operating voltage at AC 	
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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 number of NC contacts for auxiliary contacts 1	— at 60 Hz rated value	5 500 V
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 number of NC contacts for auxiliary contacts 1	 operating voltage at DC rated value 	5 500 V
million (5 V, 1 mA) Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts 1	Power Electronics	
design of the contact of auxiliary contacts Gold-plated number of NC contacts for auxiliary contacts 1	contact reliability	
number of NC contacts for auxiliary contacts 1	Auxiliary circuit	
	design of the contact of auxiliary contacts	Gold-plated
• lagging switching 0	number of NC contacts for auxiliary contacts	1
	 lagging switching 	0

number of NO contacts for auxiliary contacts	0
leading contact	0
operational current at AC-12	
at 24 V rated value	10 A
at 48 V rated value	10 A
at 110 V rated value	10 A
at 230 V rated value	8 A
at 400 V rated value	8 A
operational current at AC-15	
at 24 V rated value	6 A
at 48 V rated value	6 A
at 110 V rated value	6 A
at 230 V rated value	6 A
at 400 V rated value	3 A
at 500 V rated value at 500 V rated value	1.4 A
operational current at DC-12	1374
• at 24 V rated value	10 A
at 48 V rated value	5 A
at 110 V rated value	2.5 A
at 230 V rated value	1A
at 400 V rated value	0.3 A
at 500 V rated value at 500 V rated value	0.3 A
operational current at DC-13	0.3 A
• at 24 V rated value	3 A
at 48 V rated value	1.5 A
• at 110 V rated value	0.7 A
at 230 V rated value	0.7 A
at 400 V rated value	0.1 A
at 500 V rated value at 500 V rated value	0.1 A
Connections/ Terminals	0.1 A
	anning landed towningle
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	0(0.05 4.5 mm²)
solid without core end processing	2x (0.25 1.5 mm²)
finely stranded with core end processing	2x (0.25 0.75 mm²)
finely stranded without core end processing	2x (0.25 1.5 mm²)
at AWG cables	2x (24 16)
Ambient conditions	
 ambient temperature during operation 	-25 +70 °C
ambient temperature during storage	-40 +80 °C
environmental category during operation acc. to IEC 60721	3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)
Installation/ mounting/ dimensions	
fastening method	front panel mounting
of modules and accessories	Front plate mounting
height	36 mm
width	9.8 mm
depth	27.7 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=3SU1400-1AA10-3MA0-Z X90

Cax online generator

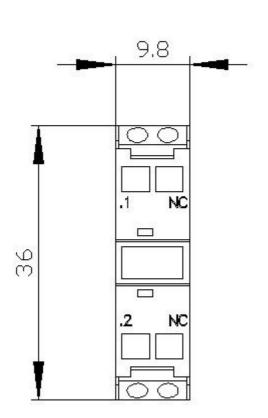
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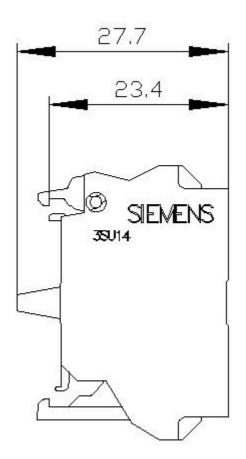
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

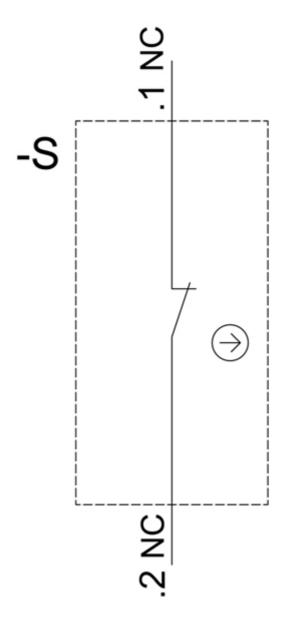
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 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

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