3SU1400-1AA10-3LA0-Z X90

Data sheet



Contact module with 1 contact element, 1 NO, gold-plated contacts, spring-type terminal, for front plate mounting, Z=150-unit packaging

product type designation Product type designation Product type designation Product function positive opening Product function positive positive function functio	product brand name	SIRIUS ACT
General technical data product function positive opening insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage of the input voltage of the input voltage of the terminal product function positive opening AC/DC of the input voltage of the enclosure of the terminal production class IP of the terminal production cla	product designation	Contact module
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 terminal of the terminal of trailway applications acc. to DIN EN 61373 poperating 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 one action of the crated value operating voltage at AC — at 50 Hz rated value operating voltage at DC rated value operating voltage at	product type designation	3SU1
insulation voltage rated value degree of pollution type of voltage	General technical data	
degree of pollution type of voltage of the operating voltage of the input voltage AC/DC surge voltage resistance rated value of the enclosure of the terminal IP20 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 vibration resistance occ. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance operating frequency maximum acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance operating frequency maximum acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance 10 500 Hz: 5g Category 1, Class B volume to 10 000 000 electrical endurance (switching cycles) typical 10 000 000 electrical endurance (switching cycles) typical 10 000 000 thermal current 10 A operating voltage at AC - at 50 Hz rated value 5 500 V - operating voltage at DC rated value operation 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 rumber of NC contacts for auxiliary contacts	product function positive opening	No
type of voltage	insulation voltage rated value	500 V
of the operating voltage of the input voltage surge voltage resistance rated value protection class IP of the enclosure of the terminal input voltage of the terminal input voltage voltage voltage at AC of the terminal input voltage voltage voltage at DC rated value operating voltage at DC rated value of DR voltage value	degree of pollution	3
of the input voltage surge voltage resistance rated value protection class IP of the enclosure of the terminal iP20 shock resistance oc. to IEC 60068-2-27 of railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance oc. to IEC 60068-2-6 of railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance oc. 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 thermal current 10 A reference code acc. to IEC 81346-2 scontinuous current of the C characteristic MCB operating voltage at AC	type of voltage	
surge voltage resistance rated value protection class IP of the enclosure of the terminal IP20 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 vibration resistance acc. to IEC 60068-2-6 for 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 electrical endurance (switching cycles) typical thermal current 10 A reference code acc. to IEC 81346-2 S 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 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 number of NC contacts for auxiliary contacts 0	 of the operating voltage 	AC/DC
protection class IP	of the input voltage	AC/DC
of the enclosure of the terminal IP20 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 category 1, Class B operating frequency maximum a 600 1/h 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 at 60 Hz rated value at 60 Hz 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	surge voltage resistance rated value	6 kV
of the terminal shock resistance oc. to IEC 60068-2-27 of railway applications acc. to DIN EN 61373 vibration resistance	protection class IP	
shock resistance	 of the enclosure 	IP40
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 acceptable frequency frequency frequency frequency frequency acceptable frequency frequency frequency frequency frequency frequency frequency frequency acceptable frequency frequenc	of the terminal	IP20
• for railway applications acc. to DIN EN 61373 vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 operating frequency maximum 3 600 1/h mechanical service life (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 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 O	shock resistance	
vibration resistance	• acc. to IEC 60068-2-27	Sinusoidal half-wave 50g / 11 ms
o acc. to IEC 60068-2-6 o for 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 electrical endurance (switching cycles) typical thermal current 10 A reference code acc. to IEC 81346-2 S 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 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 O	 for railway applications acc. to DIN EN 61373 	Category 1, Class B
of railway applications acc. to DIN EN 61373 operating frequency maximum mechanical service life (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 omerating voltage at DC 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 O	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 superating voltage at DC rated value operating voltage at DC 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 0	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 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 0	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 op	electrical endurance (switching cycles) typical	10 000 000
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 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 number of NC contacts for auxiliary contacts 0	thermal current	10 A
operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value operating voltage at DC rated value	reference code acc. to IEC 81346-2	S
- at 50 Hz rated value - 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 number of NC contacts for auxiliary contacts 0	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 0	operating voltage at AC	
● 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 0	— at 50 Hz 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 number of NC contacts for auxiliary contacts 0	— 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 0	 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 0	Power Electronics	
design of the contact of auxiliary contacts Gold-plated number of NC contacts for auxiliary contacts 0	contact reliability	
number of NC contacts for auxiliary contacts 0	Auxiliary circuit	
	design of the contact of auxiliary contacts	Gold-plated
• lagging switching 0	number of NC contacts for auxiliary contacts	0
	 lagging switching 	0

number of NO contacts for auxiliary contacts	1
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	1.4 A
• at 24 V rated value	10 A
at 48 V rated value at 48 V rated value	5 A
at 46 V rated value 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	0.5 A
• at 24 V rated value	3 A
at 48 V rated value	1.5 A
at 46 V rated value at 110 V rated value	0.7 A
at 110 V rated value at 230 V rated value	0.7 A 0.3 A
at 400 V rated valueat 500 V rated value	0.1 A
	0.1 A
Connections/ Terminals	and a land of town in the
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	0 (0.05 4.5 2)
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 st AWC applies	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/Cataloga Prochus	

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=3SU1400-1AA10-3LA0-Z X90

Cax online generator

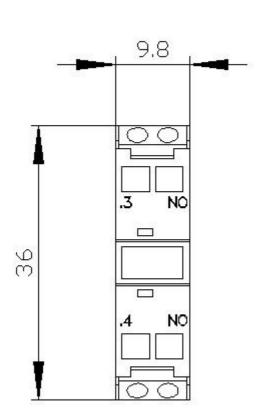
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SU1400-1AA10-3LA0-Z~X90}$

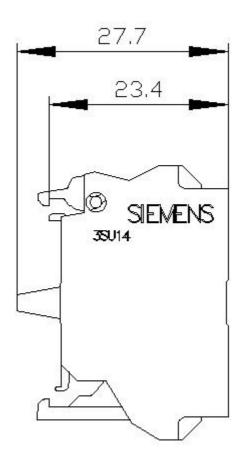
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

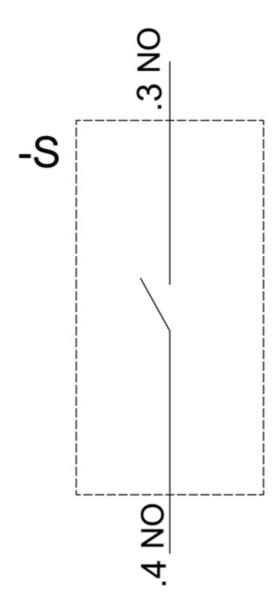
https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1AA10-3LA0-Z X90

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1AA10-3LA0-Z X90&lang=en







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