3SU1400-3AA10-5BA0

Data sheet



Contact module with 1 contact element, 1 NO, soldered connection, for use on printed circuit boards

product designation Contact module product type designation 3SU1 Contact block/ lampholder socket design other General technical data product function positive opening No insulation voltage rated value 250 V degree of pollution 3 type of voltage of the operating voltage AC/DC surge voltage resistance rated value 4 kV protection class IP of the enclosure IP40 of the terminal IP00 shock resistance according to IEC 60068-2-27 of or railway applications according to EN 61373 vibration resistance
product type designation Contact block/ lampholder socket design other General technical data product function positive opening insulation voltage rated value degree of pollution of the operating voltage of the operating voltage of the input voltage according to lEC 60068-2-27 for railway applications according to EN 61373 other surge voltage resistance other other sinusoidal half-wave 15g / 11 ms Category 1, Class B
socket design other General technical data product function positive opening No insulation voltage rated value 250 V degree of pollution 3 type of voltage
socket design General technical data product function positive opening insulation voltage rated value 250 V degree of pollution 3 type of voltage of the operating voltage of the input voltage AC/DC surge voltage resistance rated value 4 kV protection class IP of the enclosure of the terminal IP00 shock resistance according to IEC 60068-2-27 of railway applications according to EN 61373 other voltage voltage rated value AC/DC AC/DC AC/DC surge voltage resistance rated value 4 kV protection class IP of the enclosure of the terminal IP00 shock resistance Category 1, Class B
product function positive opening product function positive opening No insulation voltage rated value 250 V degree of pollution 3 type of voltage of the operating voltage of the input voltage AC/DC surge voltage resistance rated value 4 kV protection class IP of the enclosure of the terminal IP00 shock resistance according to IEC 60068-2-27 of railway applications according to EN 61373 No AC/DC AC/DC AC/DC AC/DC AC/DC AC/DC AC/DC Surge voltage resistance rated value FP40 FP40 FP40 FP40 FP40 FP40 FP40 FP40
insulation voltage rated value degree of pollution type of voltage of the operating voltage of the input voltage AC/DC AC/DC surge voltage resistance rated value protection class IP of the enclosure of the terminal IP40 IP90 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms Category 1, Class B
degree of pollution type of voltage of the operating voltage of the input voltage AC/DC AC/DC surge voltage resistance rated value protection class IP of the enclosure of the terminal IP40 IP40 IP00 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications according to EN 61373 Category 1, Class B
type of 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 IP40 IP00 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications according to EN 61373 Category 1, Class B
 of the operating voltage of the input voltage AC/DC surge voltage resistance rated value 4 kV protection class IP of the enclosure of the terminal lP40 iP00 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications according to EN 61373 Category 1, Class B
of the input voltage AC/DC surge voltage resistance rated value of the enclosure of the terminal shock resistance according to IEC 60068-2-27 of or railway applications according to EN 61373 AC/DC 4 kV IP40 IP40 IP00 sinusoidal half-wave 15g / 11 ms Category 1, Class B
surge voltage resistance rated value protection class IP of the enclosure of the terminal IP40 IP00 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of or railway applications according to EN 61373 Category 1, Class B
protection class IP of the enclosure of the terminal IP00 shock resistance of according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of or railway applications according to EN 61373 Category 1, Class B
of the enclosure of the terminal IP40 shock resistance according to IEC 60068-2-27
of the terminal shock resistance according to IEC 60068-2-27 of railway applications according to EN 61373 IP00 sinusoidal half-wave 15g / 11 ms Category 1, Class B
shock resistance • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B
 according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications according to EN 61373 Category 1, Class B
• for railway applications according to EN 61373 Category 1, Class B
vibration resistance
• according to IEC 60068-2-6 10 500 Hz: 5g
• for railway applications according to EN 61373 Category 1, Class B
operating frequency maximum 3 600 1/h
mechanical service life (operating cycles) typical 10 000 000
electrical endurance (operating cycles) typical 10 000 000
thermal current 10 A
reference code according to IEC 81346-2
continuous current of the C characteristic MCB 10 A
Substance Prohibitance (Date) 10/01/2014
operating voltage
• at AC
— at 50 Hz rated value 5 240 V
— at 60 Hz rated value 5 240 V
• at DC rated value 5 250 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 Silver alloy
number of NC contacts for auxiliary contacts

type of electrical connection Ambient conditions ambient temperature	lagging switching	0
a 2 4 V rated value	number of NO contacts for auxiliary contacts	1
• at 24 V rated value	leading contact	0
all 148 V rated value	operational current at AC-12	
• at 110 V rated value 10 A • at 230 V rated value 6A • at 24 V rated value 6A • at 24 V rated value 6A • at 48 V rated value 6A • at 48 V rated value 6A • at 230 V rated value 6A • at 230 V rated value 6A • at 230 V rated value 9A • at 230 V rated value 9A • at 24 V rated value 9A • at 24 V rated value 10 A • at 48 V rated value 10 A • at 24 V rated value 10 A • at 20 V rated value 10 A • at 30 V rated value 10 A • at 40 V rated	at 24 V rated value	10 A
• at 230 V rated value	at 48 V rated value	10 A
e 12 4V rated value 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6	at 110 V rated value	10 A
at 124 V rated value at 48 V rated value ball to V rated value at 1230 V rated value ball to V rated value ba	at 230 V rated value	10 A
• at 148 V rated value • at 110 V rated value • at 230 V rated value • at 230 V rated value • at 24 V rated value • at 148 V rated value • at 148 V rated value • at 230 V rated value • at 200 V rated value • during operation • during operation • during operation • during storage environmental category during operation according to IEC 60721 95%, no condensation in operation permitted) *** ***Total Circuit board • of modules and accessories Printed circuit board • of modules and accessories Printed circuit board • of modules and accessories Printed circuit board • of modules and accessories Printed circuit board • plastic enclosure • metal enclosure • Mo • metal enclosure • Mo • metal enclosure • Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 **Certificates/ approvals**	operational current at AC-15	
at 110 V rated value at 230 V rated value bit 24 V rated value cat 24 V rated value cat 24 V rated value cat 25 V rated value cat 26 V rated value cat 27 V rated value cat 28 V rated value cat 29 V	at 24 V rated value	6 A
operational current at DC-12 • at 24 V rated value • at 110 V rated value • at 110 V rated value • at 230 V rated value • at 24 V rated value • at 230 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 30 V rated value • at 25 W rated value • at 26 W rated value • at 25 W rated value • at 26 W rated value • at 25 W rated value • at 26 W rated value • a	at 48 V rated value	6 A
e at 24 V rated value 10 A e at 48 V rated value 2.5 A e at 110 V rated value 2.5 A e at 110 V rated value 1A e at 230 V rated value 2.5 A e at 110 V rated value 1A e at 230 V rated value 2.5 A e at 230 V rated value 1A e at 24 V rated value 3 A e at 48 V rated value 3.5 A e at 48 V rated value 3.5 A e at 48 V rated value 3.5 A e at 110 V rated value 3.5 A e at 110 V rated value 3.5 A e at 110 V rated value 3.5 A e at 230 V rated value 4.5 A e at 230 V rated value 3.5 A e at 230 V rated value 4.5 A e at 230 V rated value 5.5 A e at 230 V rated value 5.5 A e at 230 V rated value 6.5 A e at 230 V rated value 7.5 A e at 24 V rated value 7.5 A e at 25 V rated value 7.5 A e at 25 V rated value 7.5 A e at 25 V rated value 7.5 A e at 26 V r	• at 110 V rated value	6 A
• at 24 V rated value 5 A • at 48 V rated value 5 A • at 110 V rated value 2.5 A • at 230 V rated value 1 A operational current at DC-13 • at 24 V rated value 3 A • at 24 V rated value 3.5 A • at 24 V rated value 3.5 A • at 24 V rated value 4.5 A • at 25 V rated value 5.5 A • at 25 V rated value 6.5 A • at 25 V rated value 7.5 A • at 25 V rated value 7.5 A • at 25 V rated value 7.5 A • at 25 V rated value 8.5 A • at 25 V rated value 9.5 A • at 25 V	at 230 V rated value	4 A
• at 48 V rated value 5 A • at 110 V rated value 2.5 A • at 230 V rated value 11 A operational current at DC-13 • at 24 V rated value 3 A • at 48 V rated value 3.A • at 48 V rated value 3.A • at 48 V rated value 0.7 A • at 230 V rated value 0.3 A or at 430 V rated value 0.3 A or at 430 V rated value 0.3 A connections/ Terminals type of electrical connection Socket connection (THT) Ambient conditions ambient temperature • during operation 2.5 +70 °C • during storage 4.0 +80 °C environmental category during operation according to IEC 35%, no condensation in operation permitted) nstallation/ mounting/ dimensions fastening method 9 rinted circuit board • of modules and accessories Printed circuit board • of modules and accessories Printed circuit board • of modules of modules of modules of the service of the soldering method • plastic enclosure • plastic enclosure • metal enclosure • metal enclosure parameter of the soldering method Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Certificates/ approvals	operational current at DC-12	
e at 110 V rated value e at 230 V rated value 1 A operational current at DC-13 e at 24 V rated value 1 .5 A e at 48 V rated value 1 .5 A e at 110 V rated value 0 .7 A e at 230 V rated value 0 .3 A Connections/ Terminals type of electrical connection Ambient conditions ambient temperature during operation during storage environmental category during operation according to IEC 60721 environmental category according to IEC 60721 environmental category according to	at 24 V rated value	10 A
• at 230 V rated value operational current at DC-13 • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 230 V rated value O.7 A • at 230 V rated value O.8 Socket connection (THT) ***The provided in the provided	• at 48 V rated value	5 A
e at 24 V rated value 3 A 3 A 4 4 8 V rated value 0.7 A 0.3 A 5 4 4 8 V rated value 0.7 A 0.3 A 5 4 4 8 V rated value 0.7 A 0.3 A 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	• at 110 V rated value	2.5 A
at 24 V rated value at 48 V rated value at 140 V rated value at 230 V rated value at 230 V rated value at 230 V rated value become to a training operation conditions ### Additional operation and the part of the soldering method ### Additional operation Printed circuit board Printed cir	at 230 V rated value	1 A
at 48 V rated value at 110 V rated value at 230 V rated value 0.3 A Connections/ Terminals Type of electrical connection Socket connection (THT) Ambient conditions ambient temperature during operation during storage environmental category during operation according to IEC environmental category during operation according to IEC environmental category durin	operational current at DC-13	
• at 110 V rated value • at 230 V rated value 0.3 A Connections/ Terminals type of electrical connection Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 astallation/ mounting/ dimensions fastening method • of modules and accessories height vidth depth suitability for integration • plastic enclosure • metal enclosure parameter of the soldering method Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Cass 2 Certificates/ approvals	at 24 V rated value	3 A
e at 230 V rated value Connections/ Terminals type of electrical connection Ambient conditions ambient temperature e during operation e during storage environmental category during operation according to IEC 60721 statellation/ mounting/ dimensions fastening method e of modules and accessories Printed circuit board e of modules and accessories Printed circuit board 18.5 mm 7.6 mm depth suitability for integration e plastic enclosure e metal enclosure No e metal enclosure No Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts parameter of the soldering method Class 2 Ecrifficates/ approvals	• at 48 V rated value	1.5 A
type of electrical connection Ambient conditions ambient temperature	at 110 V rated value	0.7 A
type of electrical connection Ambient conditions ambient temperature	at 230 V rated value	0.3 A
ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 statenting method • of modules and accessories height width depth suitability for integration • plastic enclosure • metal enclosure • maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 Certificates/ approvals	Connections/ Terminals	
ambient temperature	type of electrical connection	Socket connection (THT)
 during operation during storage during storage environmental category during operation according to IEC 60721 assallation/ mounting/ dimensions fastening method of modules and accessories height width depth suitability for integration plastic enclosure metal enclosure metal enclosure metal enclosure parameter of the soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure prin soldering point quality according to IPC A-610 Class 2 	Ambient conditions	
 during storage -40 +80 °C environmental category during operation according to IEC 60721 3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted) nstallation/ mounting/ dimensions fastening method of modules and accessories Printed circuit board height 18.5 mm width 7.6 mm depth suitability for integration plastic enclosure metal enclosure no metal enclosure No type of soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts parameter of the soldering method Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 	ambient temperature	
environmental category during operation according to IEC 60721 3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted) statellation/ mounting/ dimensions fastening method Printed circuit board • of modules and accessories Printed circuit board height 18.5 mm width 7.6 mm depth 16.2 mm suitability for integration • plastic enclosure No • metal enclosure No type of soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts parameter of the soldering method Class 2 Certificates/ approvals	during operation	-25 +70 °C
95%, no condensation in operation permitted) nstallation/ mounting/ dimensions fastening method	during storage	-40 +80 °C
Fastening method ● of modules and accessories Printed circuit board Printed circuit board Printed circuit board 18.5 mm 18.5 mm Width 7.6 mm depth suitability for integration ● plastic enclosure ● metal enclosure No type of soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin Soldering point quality according to IPC A-610 Class 2 Certificates/ approvals	60721	
of modules and accessories Printed circuit board 18.5 mm width 7.6 mm depth 16.2 mm suitability for integration • plastic enclosure • metal enclosure No type of soldering method parameter of the soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 Certificates/ approvals	Installation/ mounting/ dimensions	
height width 7.6 mm depth 16.2 mm suitability for integration • plastic enclosure • metal enclosure type of soldering method parameter of the soldering method soldering point quality according to IPC A-610 Class 2 Certificates/ approvals	fastening method	Printed circuit board
width 7.6 mm depth 16.2 mm suitability for integration • plastic enclosure No type of soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts parameter of the soldering method Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 Certificates/ approvals	of modules and accessories	
depth suitability for integration plastic enclosure metal enclosure No type of soldering method soldering method parameter of the soldering method soldering point quality according to IPC A-610 Class 2 Certificates/ approvals		18.5 mm
suitability for integration • plastic enclosure • metal enclosure No type of soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 Certificates/ approvals	width	
 plastic enclosure metal enclosure type of soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts parameter of the soldering method Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 	·	16.2 mm
● metal enclosure type of soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts parameter of the soldering method Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 Certificates/ approvals	-	
type of soldering method Selective soldering process, manual soldering, laser soldering; No liquid solder must not come into contact with the plastic parts and enclosure parts Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 Certificates/ approvals	•	
must not come into contact with the plastic parts and enclosure parts parameter of the soldering method Maximum solder temperature with liquid solder 285 °C for max. 2 seconds per pin soldering point quality according to IPC A-610 Class 2 Certificates/ approvals		
pin soldering point quality according to IPC A-610 Class 2 Certificates/ approvals	· ·	must not come into contact with the plastic parts and enclosure parts
Certificates/ approvals	parameter of the soldering method	
	soldering point quality according to IPC A-610	Class 2
General Product Approval Declaration of Conformity	Certificates/ approvals	
	General Product Approval	Declaration of Conformity

Confirmation



<u>KC</u>

EAC





Test Certificates Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









other Environment

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).

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=3SU1400-3AA10-5BA0

Cax online generator

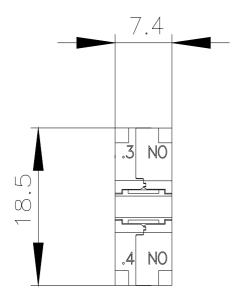
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-3AA10-5BA0

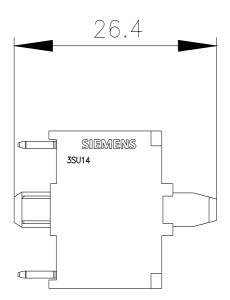
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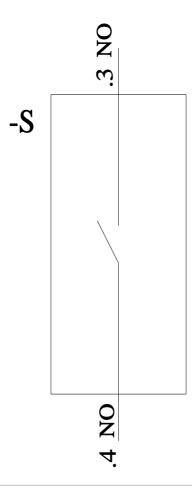
https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-3AA10-5BA0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-3AA10-5BA0&lang=en







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