SIEMENS

Data sheet

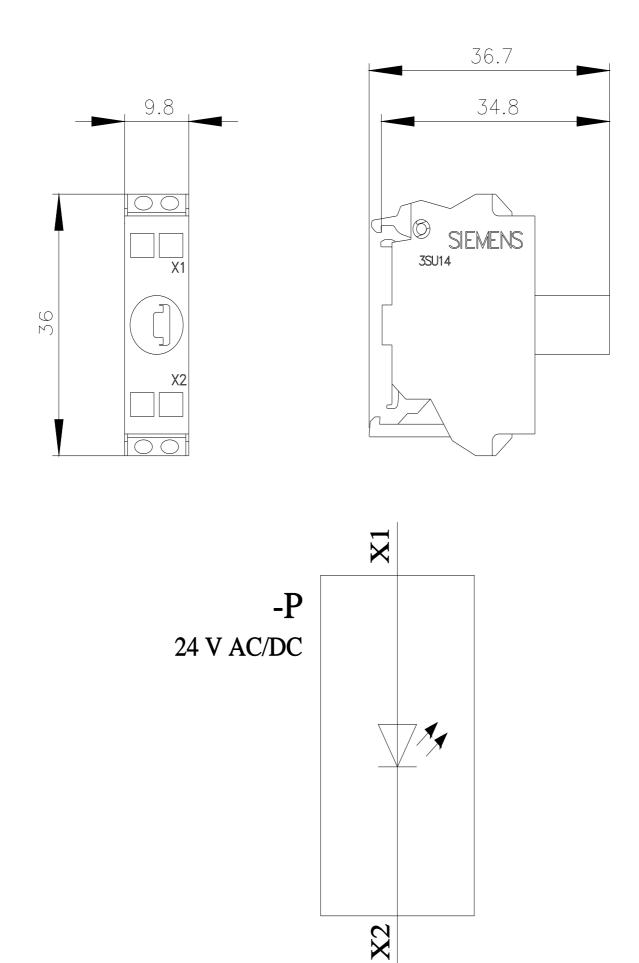
3SU1401-2BB20-3AA0-Z X90



LED module with integrated LED 24 V AC/DC, red, spring-type terminal, for floor mounting, Z=50-unit packaging

product brand nameSIRU S ACTproduct type designationSSU1product type designationSSU1General technical data		
product type designation 3SU1 General technical data	product brand name	SIRIUS ACT
General technical data product component • diode Yes • lamp transformer No • light source Yes • series resistor No Insulation voltage rated value 320 V degree of pollution 3 type of voltage of the operating voltage AC/DC • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP • • of the enclosure IP20 • of the terminal IP20 stock resistance • • according to IEC 60068-2-7 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B • of the raininal IP20 stock resistance • • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B • operating ported typical 100 000 h reference code according to IEC 81345-2 P Substance Prohibitance (Date) 24 V • at C	product designation	LED module
product component	product type designation	3SU1
• diodeYes• light sourceNo• light sourceYes• series resistorNo• series resistorNoinsulation voltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DC• for actuationAC/DC• for actuationAC/DC• for actuationAC/DC• of the encistore rated value4 kVconsumed current maximum25 mAprotection class IPIP40• of the encistoreIP40• of the encistoreIP40• of the encistoreCategory 1, Class B• of the terminalIP20shock resistanceCategory 1, Class B• brot resistanceCategory 1, Class B• brot railway applications according to EN 61373Category 1, Class B• for railway applications according to EN 61373Category 1, Class B• brot railway applications according to EN 61373Category 1, Class B• of or aliway applications according to EN 61373Category 1, Class B• brot railway applications according to EN 61373Category 1, Class B• operating politage 1100 000 h• act AC	General technical data	
• lamp transformerNo• light sourceYes• series resistorNoInsulation voltage rated value320 Vdegree of pollution3• for actuationAC/DC• for actuationAC/DC Csurge voltage rated value4 kVconsumed current maximum25 mAprotection class IP-• of the enclosureIP40• of the enclosureinsulation voltage to 50068-2.47• of the enclosureinsulation voltage to 50068-2.47• for railway applications according to EC 60068-2.47insuloid half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class B• operating to IEC 60068-2.610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B• operating to IEC 60068-2.610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B• operating ported typical100 000 hreference code according to IEC 8148-2P• Substance Prohibitance (Date)0301/2017• at AC-• at AC24 V• at AC24 V• at AC24 V• at DC rated value24 V• at DC rated value20 %• at DC rated value20 %	product component	
• light source Yes • series resistor No Insulation voltage rated value 320 V degree of pollution 3 type of voltage of the operating voltage AC/DC • for actuation AC/DC • surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP P40 • of the enclosure IP40 • of the enclosure IP20 • stock resistance category 1, Class B vibration resistance category 1, Class B vibration resistance 100 000 h • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B oparating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 oparating voltage 1 24 V • at AC 24 V - at 60 Hz rated value 24 V • at DC rated value 24 V • at DC rated value 20 % Connection/s/ Terminals 20 % Connection/s/ Terminals 20 %	• diode	Yes
series resistor No insulation voltage reted value 320 V degree of pollution 3 type of voltage of the operating voltage AC/DC • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP IP40 • of the enclosure IP40 • of the enclosure IP20 • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for ralway applications according to EN 61373 Category 1, Class B vibration resistance	lamp transformer	No
Insulation voltage rated value 320 V degree of pollution 3 type of voltage of the operating voltage AC/DC surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP	light source	Yes
degree of pollution 3 type of voltage of the operating voltage AC/DC • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP IP40 • of the enclosure IP40 • of the enclosure IP20 shock resistance resistance • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B • bor railway applications according to EN 61373 Category 1, Class B • of the terminal 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 • at AC - - at 60 Hz rated value 24 V - at 60 Hz rated value 24 V - at 60 Hz rated value 24 V - at 60 Hz rated value 20 % Control circuit/ control 2/0 % Control circuit/ control 2/A Fish current maximum 2/A	series resistor	No
Type of voltage of the operating voltage AC/DC • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP - • of the enclosure IP40 • of the terminal IP20 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 vibration resistance - • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 - • at AC - - at 60 Hz rated value 24 V • at DC rated value 24 V • at DC rated value 20 % relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage	insulation voltage rated value	320 V
• for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance IP40 • of trailway applications according to EN 61373 Category 1, Class B vibration resistance 100000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V 24 V - at 60 Hz rated value 20 % 20 %	degree of pollution	3
surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance insusoidal half-wave 15g / 11 ms • of railway applications according to EN 61373 Category 1, Class B vibration resistance 0 • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B vibration resistance 0 • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 0 • at AC - - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V - at 0 Hz rated value 24 V relative negative tolerance of the operating voltage 20 % Control	type of voltage of the operating voltage	AC/DC
Consumed current maximum25 mAprotection class IPIP40• of the enclosureIP40• of the terminalIP20shock resistanceIP20• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance0• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Bvibration resistance0• according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating period typical000 0hreference code according to EN 61373Category 1, Class B• at AC at 60 Hz rated value24 V- at 60 Hz rated value24 V- at 60 Hz rated value20 %Control circuit/ Control20 %Inrush current maximum2 AConnections/ Terminals24 Ntype of electrical connectionspring-loaded terminalstype of connectable conductor cross-sectionsspring-loaded terminals	for actuation	AC/DC
protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance IP20 • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B • ubration resistance - • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 030/12017 operating voltage 1 - • at AC - - at 50 Hz rated value 24 V • at AC 24 V - at 60 Hz rated value 24 V • at DC rated value 20 % relative nogative tolerance of the operating voltage 20 % relative nogative tolerance of the operating voltage 20 % relative nogative tolerance of the operating voltage 20 % connections/Terminals 2A	surge voltage resistance rated value	4 kV
• of the enclosureIP40• of the terminalIP20shock resistanceIP20• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistanceCategory 1, Class B• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage 1	consumed current maximum	25 mA
• of the terminalIP20shock resistance• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hoperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage 124 V• at AC at 50 Hz rated value24 V- at 60 Hz rated value24 Vetat by crated value20 %relative positive tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %control circuit/ Control2Atype of electrical connectionspring-loaded terminalstype of connectable conductor cross-sectionsspring-loaded terminals	protection class IP	
shock resistance sinusoidal half-wave 15g / 11 ms • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • 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 period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 03/01/2017 • at AC - - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V • at DC rated value 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 0% inrush current maximum 2 A Connections / Terminals yring-loaded terminals	of the enclosure	IP40
• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance-• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage 1-• at AC at 50 Hz rated value24 V- at 60 Hz rated value24 V- at 60 Hz rated value24 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control20 %inrush current maximum2 AConnections / Terminalsspring-loaded terminalstype of electrical connectionspring-loaded terminals	of the terminal	IP20
• for railway applications according to EN 61373 Category 1, Class B • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 - • at AC - - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V • at DC rated value 24 V • at Corde value 24 V • at Corde value 24 V • at 00 Hz rated value 24 V • at 00 Hz rated value 20 % relative positive tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 2 A Connections/ Terminals yring-loaded terminals type of electrical connection spring-loaded terminals	shock resistance	
vibration resistance 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 0 • at AC - - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V e at DC rated value 24 V e at DC rated value 24 V felative positive tolerance of the operating voltage 20 % Control circuit/ Control 2A Inrush current maximum 2 A Connections/ Terminals spring-loaded terminals type of electrical connection spring-loaded terminals	 according to IEC 60068-2-27 	sinusoidal half-wave 15g / 11 ms
• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage 1• at AC- at 50 Hz rated value24 V- at 60 Hz rated value24 Ve at DC rated value24 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control20 %inrush current maximum2 AConnections/ Terminals2 Atype of electrical connectionspring-loaded terminalstype of connectable conductor cross-sectionsspring-loaded terminals	 for railway applications according to EN 61373 	Category 1, Class B
• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage 1• at AC- at 50 Hz rated value24 V- at 60 Hz rated value24 V• at DC rated value24 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control20 %inrush current maximum2 AConnections/ Terminals2 Atype of electrical connectionspring-loaded terminalstype of connectable conductor cross-sectionsspring-loaded terminals	vibration resistance	
operating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage 103/01/2017• at AC24 V- at 50 Hz rated value24 V- at 60 Hz rated value24 V• at DC rated value24 Vrelative positive tolerance of the operating voltage20 %Control circuit/ Control20 %inrush current maximum2 AConnections/ Terminals20 %type of electrical connectionspring-loaded terminalstype of connectable conductor cross-sectionsspring-loaded terminals	 according to IEC 60068-2-6 	10 500 Hz: 5g
reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 - • at AC - - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V • at DC rated value 24 V relative positive tolerance of the operating voltage 20 % control circuit/ Control 20 % inrush current maximum 2 A Connections/ Terminals 2 A type of electrical connection spring-loaded terminals type of connectable conductor cross-sections spring-loaded terminals	 for railway applications according to EN 61373 	Category 1, Class B
Substance Prohibitance (Date) 03/01/2017 operating voltage 1 - • at AC - - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V • at DC rated value 24 V • at DC rated value 24 V relative positive tolerance of the operating voltage 20 % control circuit/ Control 20 % inrush current maximum 2 A Connections/ Terminals 2 A type of electrical connection spring-loaded terminals type of connectable conductor cross-sections spring-loaded terminals	operating period typical	100 000 h
operating voltage 1 operating voltage 1 • at AC - at 50 Hz rated value - at 60 Hz rated value 24 V • at DC rated value 20 % relative positive tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 2 A Connections/ Terminals ype of electrical connection type of connectable conductor cross-sections spring-loaded terminals	reference code according to IEC 81346-2	Р
• at AC24 V- at 50 Hz rated value24 V- at 60 Hz rated value24 V• at DC rated value24 V• at DC rated value20 %relative positive tolerance of the operating voltage20 %Control circuit/ Control20 %inrush current maximum2 AConnections/ Terminals20 %type of electrical connectionspring-loaded terminalstype of connectable conductor cross-sections	Substance Prohibitance (Date)	03/01/2017
- at 50 Hz rated value 24 V - at 60 Hz rated value 24 V • at DC rated value 24 V • at DC rated value 24 V relative positive tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 2 A Connections/ Terminals 2 A type of electrical connection spring-loaded terminals type of connectable conductor cross-sections spring-loaded terminals	operating voltage 1	
at 60 Hz rated value 24 V • at DC rated value 24 V relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 2 A Connections/ Terminals 2 A type of electrical connection spring-loaded terminals type of connectable conductor cross-sections spring-loaded terminals	• at AC	
• at DC rated value24 Vrelative positive tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %Control circuit/ Control20 %Control circuit/ Control2 AConnections/ Terminals2 Atype of electrical connectionspring-loaded terminalstype of connectable conductor cross-sectionsspring-loaded terminals	— at 50 Hz rated value	24 V
relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 2 A Connections/ Terminals 20 % type of electrical connection spring-loaded terminals type of connectable conductor cross-sections	— at 60 Hz rated value	24 V
relative negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 2 A Connections/ Terminals 20 % type of electrical connection spring-loaded terminals type of connectable conductor cross-sections spring-loaded terminals	• at DC rated value	24 V
Control circuit/ Control 2 A inrush current maximum 2 A Connections/ Terminals 2 A type of electrical connection spring-loaded terminals type of connectable conductor cross-sections spring-loaded terminals	relative positive tolerance of the operating voltage	20 %
inrush current maximum 2 A Connections/ Terminals 2 A type of electrical connection spring-loaded terminals type of connectable conductor cross-sections spring-loaded terminals	relative negative tolerance of the operating voltage	20 %
Connections/ Terminals type of electrical connection type of connectable conductor cross-sections	Control circuit/ Control	
type of electrical connection spring-loaded terminals type of connectable conductor cross-sections spring-loaded terminals	inrush current maximum	2 A
type of connectable conductor cross-sections	Connections/ Terminals	
	type of electrical connection	spring-loaded terminals
	type of connectable conductor cross-sections	
• solid without core end processing 2x (0.25 1.5 mm ²)	 solid without core end processing 	2x (0.25 1.5 mm²)

 finely stranded with core end processing 	2x (0.25 0.75 mm ²)
 finely stranded without core end processing 	2x (0.25 1.5 mm ²)
 for AWG cables 	2x (24 16)
Lamp	
type of light source	LED
color of the light source	red
light intensity	450 1 120 mcd
certificate of suitability	
• ATEX	No
• IECEx	No
Ambient conditions	
ambient temperature	
 during operation 	-25 +70 °C
 during storage 	-40 +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)
Installation/ mounting/ dimensions	
fastening method	
 of modules and accessories 	Floor mounting
height	36 mm
width	9.8 mm
depth	29.4 mm
suitability for integration	
plastic enclosure	Yes
metal enclosure	Yes
Certificates/ approvals	
Further information	
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-do Siemens is working on the renewal of the current EAC certifica Please contact your local Siemens office on the status of validity of EAC relevant market (other than the sanctioned EAEU member sta 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?mlfbs Cax online generator http://support.automation.siemens.com/kWV/CAXorder/default.aspx Service&Support (Manuals, Certificates, Characteristics, FAQs https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BB20 Image database (product images, 2D dimension drawings, 3D in http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SL	ates. it the EAC certification if you intend to import or offer to supply these products to an ites Russia or Belarus). =3SU1401-2BB20-3AA0-Z X90 (?lang=en&mlfb=3SU1401-2BB20-3AA0-Z X90 >) -3AA0-Z X90 models, device circuit diagrams, EPLAN macros,)



last modified:

3/9/2022 🖸

Subject to change without notice © Copyright Siemens

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: A6X30144647