SIEMENS

Data sheet

3SU1401-1BB40-1AA0-Z X90

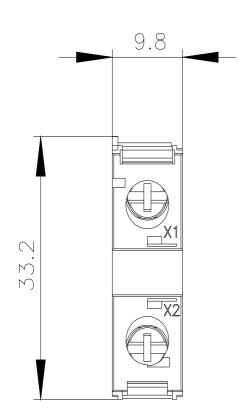


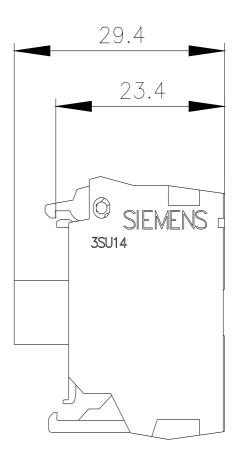
LED module with integrated LED 24 V AC/DC, green, screw terminal, for front plate mounting, Z=50-unit packaging

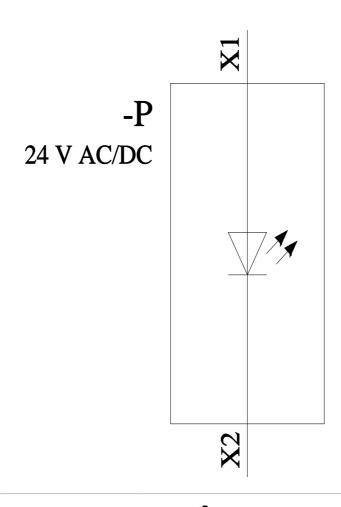
product brand name SIRUS ACT product bis designation LED module product type designation 3SU1 Central technical data - product component - • clicke Yes • lamp transformer No • light source Yes • series resistor No Insulation voltage rated value 320 V degree of pollution 3 type of voltage of the operating voltage AC/DC • for actuation AC/DC surge voltage rosistance rated value 4 kV consumed current maximum 25 mA protection class IP - • of the terminal IP20 shock resistance - • according to EEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance - • according to EEC 60068-2-4 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating voltage 1 000 000 h	-	
product type designation 3SU1 General technical data	product brand name	SIRIUS ACT
Ceneral 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 IP40 • of the enclosure IP40 • of the terminal IP20 • block resistance sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B • of the terminal IP20 • block resistance • • according to IEC 60068-2-7 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B • operating period typical 100 wooth • 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 wooth • reference code according to IEC 81346-2 P Substance Prohibitance (Date) 24 V • at 60 Hz	product designation	LED module
product component	product type designation	3SU1
• 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 IP40 • 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 10500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B vibration resistance • according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 • at AC - - at 50 Hz rated value 24 V	General technical data	
• lamp transformer No • ight source Yes • series resistor No Insultation 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 IP40 • of the enclosure IP40 • of the enclosure IP40 • of the enclosure 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 operating 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 8136-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 - • at AC - - at 60 Hz: rated value 24 V - at 80 Hz: rated value 24 V • at AC 20 % - at 60 Hz: rated value 24 V	product component	
 light source veries resistor 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 4KV consumed current maximum 25 mA protection class IP of the enclosure IP40 e of the enclosure IP40 e of the enclosure involdal half-wave 15g / 11 ms c for railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-67 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 EN 61373 Category 1, Class B operating period typical to 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 AC - at 60 Hz rated value 24 V et at DC rated value 24 V et at DC rated value 24 V et at DC rated value 24 V categorie to learce of the operating voltage 20% Control circuit/ Control finuts h current maximum 2A Connections/ Torminals type of electrical connection serew-type terminals 	• diode	Yes
• series resistor No insulation voltage rated value 320 V degree of pollution 3 bype of voltage of the operating voltage AC/DC • for actuation AC/DC • for actuation AC/DC of ractuation AC/DC of the enclosure IPA0 • of the terminal IP20 shock resistance IPa0 • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for raliway applications according to EN 61373 Category 1, Class B vibration resistance 10 500 Hz: 5g • for raliway applications according to EN 61373 Category 1, Class B operating poried typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 24 V • at AC 24 V <	 lamp transformer 	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 IP40 • of the enclosure IP40 • of the enclosure IP40 • of the terminal IP20 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 00 mb • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B opparating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 oparating voltage 1 - at 60 Hz rated value • at AC - at 60 Hz rated value relative nogative tolerance of the operating voltage 20 % control circuit/ Control Intrush current maximum 2A Connections/ Terminals type of electrical connection screw-type terminals	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 terminal IP20 shock resistance 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 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 - at 60 Hz rated value - at 60 Hz rated value 24 V - at 60 Hz rated value 24 V - at 60 Hz rated value 24 V relative positive tolerance of the operating voltage 20 % Control circuit/ Control 20 % Inrush current maximum 2 A Connections/ Terminals	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 10 500 Hz: 5g • 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 50 Hz rated value • at AC - at 50 Hz rated value • at DC rated value 24 V - at D Varated value 24 V relative negative tolerance of the operating voltage 20 % Connections/ Terminals 2A Connections/ Terminals 2A Connections/ Termi	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 IP20 shock resistance IP20 • for railway applications according to EN 61373 Category 1, Class B vibration resistance IO • according to IEC 60068-2-6 10 • for railway applications according to EN 61373 Category 1, Class B vibration resistance IO • according to IEC 60068-2-6 10 • for railway applications according to EN 61373 Category 1, Class B vibration resistance IOO 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 IO • at AC - - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V • at AC 20 % relative negative tolerance of the operating voltage 20 % contocl tortot	degree of pollution	3
surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP	type of voltage of the operating voltage	AC/DC
consumed current maximum 25 mA 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 vibration resistance 0 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 81366-2 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 DC rated value 24 V i at DC rated value 20 % Control circuit/ Control Inrush current maximum Imrush current maximum 2 A Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals	• for actuation	AC/DC
protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 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	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 resistancesinusoidal half-wave 15g / 11 ms• 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 value20 %relative positive tolerance of the operating voltage20 %control circuit/ Control2Ainrush current maximum2 Aconnections / Terminalsscrew-type terminalstype of electrical connectionscrew-type 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 - • at AC - - at 60 Hz rated value 24 V - at 60 Hz rated value 24 V • at DC rated value 24 V • at DC rated value 24 V • at 0 Hz rated value 24 V • at 0 C rated value 24 V • at 0 C rated value 24 V • at 0 T rated value 24 V • at 0 C rated value 20 % Control Circuit/ Control Inrush current maximum Inrush current maximum 2 A Connections/ Terminals screw-type terminals type of electrical connection screw-type 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 Vrelative positive tolerance of the operating voltage20 %connections/ Terminals2 Aconnections/ Terminals2 Atype of electrical connectionscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals	of the terminal	IP20
• 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 50 Hz rated value 24 V - at 60 Hz rated value 24 V • at AC category totage 20 % relative positive tolerance of the operating voltage 20 % Control circuit/ Control 24 N inrush current maximum 2 A Connections/ Terminals 24 N type of electrical connection screw-type terminals	shock resistance	
vibration resistanceI0 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	 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 V• at DC rated value24 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control20 %control circuit/ Control2 Ainrush current maximum2 AConnections/ Terminalsscrew-type terminalstype of connectable conductor cross-sectionsscrew-type 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	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/ Terminals24 Ntype of electrical connectionscrew-type terminalstype of connectable conductor cross-sectionsscrew-type 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 • 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 24 V type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type 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 ype of electrical connection type of connectable conductor cross-sections screw-type terminals	operating period typical	100 000 h
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 20 % type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type terminals	reference code according to IEC 81346-2	P
• at AC24 V- at 50 Hz rated value24 V- at 60 Hz rated value24 V• at DC 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 connectionscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals	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 screw-type terminals type of connectable conductor cross-sections screw-type 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 screw-type terminals type of connectable conductor cross-sections screw-type terminals	• at AC	
• 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 screw-type terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type 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 screw-type terminals type of connectable conductor cross-sections screw-type terminals	— 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 screw-type terminals type of connectable conductor cross-sections screw-type 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 screw-type terminals type of connectable conductor cross-sections screw-type terminals	relative positive tolerance of the operating voltage	20 %
inrush current maximum 2 A Connections/ Terminals 2 A type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type terminals	relative negative tolerance of the operating voltage	20 %
Connections/ Terminals type of electrical connection screw-type terminals	Control circuit/ Control	
type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type terminals	inrush current maximum	2 A
type of connectable conductor cross-sections	Connections/ Terminals	
	type of electrical connection	screw-type terminals
• solid with core end processing 2x (0.5 0.75 mm ²)	type of connectable conductor cross-sections	
	 solid with core end processing 	2x (0.5 0.75 mm²)

 solid without core end processing 	2x (1.0 1.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (1,0 1,5 mm ²)
for AWG cables	2x (18 14)
tightening torque with screw-type terminals	0.8 0.9 N·m
type of light source	LED
color of the light source	green
light intensity	900 1 400 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 	Front plate mounting
height	33.2 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-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	<u>=3SU14U1-1BB4U-1AAU-Z X9U</u>
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.asp	x?lang=en&mlfb=3SU1401-1BB40-1AA0-Z X90
Service&Support (Manuals, Certificates, Characteristics, FAQs	•
https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1BB40	D-1AA0-Z X90
Image database (product images, 2D dimension drawings, 3D http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SI	

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-1BB40-1AA0-Z X90&lang=en







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