SIEMENS

Data sheet

3SU1401-1BB40-1AA0-Z X90

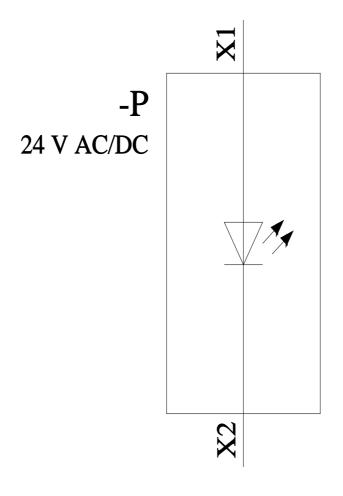


LED module with integrated LED 24 V AC/DC, green, screw terminal, for front plate mounting, Z=50-unit packaging

product brand name SIRUS ACT product type designation LED module product type designation 3SU1 General technical data	-	
product type designation 3SU1 General technical data	product brand name	SIRIUS ACT
General technical data product component • ilamp transformer • lamp transformer • light source • series resistor • no • insulation voltage rated value 320 V degree of pollution 3 type of voltage rated value • for actuation AC/DC surge voltage resistance rated value • for actuation protection class IP • of the enclosure • of the enclosure • of the enclosure • according to IEC 60068-2-27 • sinusoidal half-wave 15g / 11 ms • according to IEC 60068-2-27 • sinusoidal half-wave 15g / 11 ms • according to IEC 60068-2-6 • according to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B operating working to IEC 81346-2 Pustoance Prohibitance (Date) 0 avoid bite C fordibitance • at AC - at 60 Hz rated value e at AC - at 60 Hz rated value e at AC - at 60 Hz ra	product designation	LED module
product component Yes • diade Yes • linght source No • 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 • urge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP IP40 • of the enclosure IP40 • 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 • according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating vortage 1 • at AC • at AC 24 V • at AC 24 V • at DC rated value 20 % relative negative tolerance of the operati	product type designation	3SU1
• diodeYes• lamp transformerNo• light sourceYes• series resistorNoInsulation voltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DC• for actuationAC/DCsurge voltage resistance rated value4 kVconsumed current maximum25 mAprotection class IPIP40• of the enclosureIP40• of the terminalIP20shock resistanceCategory 1, Class Bvibration resistanceCategory 1, Class Bvibration resistance10 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Bof the ransing to IEC 60068-2-510 500 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 124 V• at AC24 V• at DC rated value24 V• at DC rated value24 V• at DC rated value20 %relative negative tolerance of the operating voltage20 %connections/TerminalsZAConnections/Terminals2Atype of electrical connectionscrew-type terminals	General technical data	
• 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 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 • oth 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 • porterting priod typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 • at AC - • at DC rated value 24 V • at DC rated value 24 V • at DC rated value 24 V • at DC rated value 20 % Connections/ Terminals 2A	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 • for actuation AC/DC • for actuation AC/DC • of the operating voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP IP40 • of the terminal IP20 shock resistance inusoidal half-wave 15g / 11 ms • of the terminal IP20 shock resistance inusoidal half-wave 15g / 11 ms • or or alway applications according to EN 61373 Category 1, Class B • lor raliway applications according to EN 61373 Category 1, Class B • according to IEC 60068-2-6 10 500 Hz: 5g • for raliway 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 iat AC • at AC - • at OC rated value 24 V • at DC rated value 24 V • at DC rated value 24 V	• diode	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 terminal IP20 shock resistance - • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for rallway applications according to EN 61373 Category 1, Class B vibration resistance - • according to IEC 60068-2-6 10 500 Hz: 5g • for rallway 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 0C rated value 24 V • at 0C rated value<	 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 emolosure 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 OC • at OC rated value 24 V • at OC rated value 24 V • at OC rated value 24 V </td <td>light source</td> <td>Yes</td>	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 terminal IP20 shock resistance isusoidal 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 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 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 - at 50 Hz rated value - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V - at 60 Hz rated value 24 V elative negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % Inrush current maximum 2A Connac	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 IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance isusoidal 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 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 10000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 1 03/01/2017 • at AC 24 V • at DC rated value 20 % relative negative tolerance of the operating voltage 20 % control circuit/ Con	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 shock resistance IP20 of r ailway applications according to EN 61373 Category 1, Class B vibration resistance I0 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 positive tolerance of the operating voltage 20 % control circuit/ Control Inrush current maximum Inrush current maximum 2A Connections/ Terminals 2A	degree of pollution	3
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• 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 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 124 V- at 50 Hz rated value24 V- at 60 Hz rated value24 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control20 %inrush current maximum2 AConnections/ Terminalsscrew-type terminals	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 Vetat V24 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control20 %inrush current maximum2 AConnections/ Terminalsscrew-type terminals	protection class IP	
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• 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 DC rated value24 Vcated value24 Vcated value24 V- at 60 Hz rated value20 %control circuit/ Control20 %control circuit/ Control2 Ainrush current maximum2 A2 AConnections/ Terminalstype of electrical connectionscrew-type terminals	of the terminal	IP20
• 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 Ve at DC rated value24 Vcated value20 %control circuit/ Control20 %control circuit/ Control2 Aconnections/ Terminals2 Atype of electrical connectionscrew-type terminals	shock resistance	
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	 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 Ve at DC rated value24 Vfelative positive tolerance of the operating voltage20 %control circuit/ Control20 %inrush current maximum2 Aconnections/ Terminals2 A	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 Vfelative positive tolerance of the operating voltage20 %Control circuit/ Control20 %inrush current maximum2 AConnections/ Terminals24 Ntype of electrical connectionscrew-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 relative positive tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 2 A Connections/ Terminals 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 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 screw-type terminals	reference code according to IEC 81346-2	P
• 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	Substance Prohibitance (Date)	03/01/2017
- 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/ Terminals2 Atype of electrical connectionscrew-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 screw-type terminals type of electrical connection 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	— 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 screw-type terminals type of electrical connection 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 2 x type of electrical connection screw-type terminals		24 V
Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection screw-type terminals		20 %
inrush current maximum 2 A Connections/ 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	inrush current maximum	2 A
	Connections/ Terminals	
type of connectable conductor cross-sections	type of electrical connection	screw-type terminals
	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 mm²)	
 at AWG cables 	2x (18 14)	
tightening torque with screw-type terminals	0.8 0.9 N·m	
Lamp		
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		
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=3SU1401-1BB40-1AA0-Z X90		
Cax online generator http://support.automation.siemens.com/WW/CAXorder/defau	ult.aspx?lang=en&mlfb=3SU1401-1BB40-1AA0-Z X90	
Service&Support (Manuals, Certificates, Characteristics		

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