SIEMENS

Data sheet

3SU1401-2BH40-3AA0-Z X90

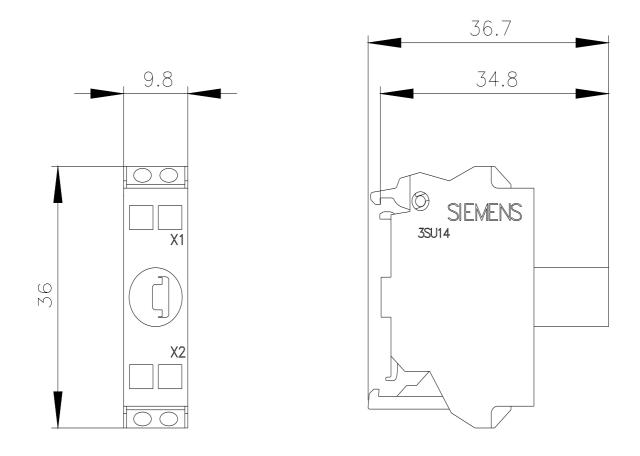


LED module with integrated LED 24-240 V AC/DC, green, spring-type terminal, for floor mounting, Z=50-unit packaging

product brand name SIRUS ACT product designation LED module product type designation 3SU1 Central 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 rated value 4C/DC • for actuation AC/DC • for actuation AC/DC • of the enclosure 1P40 • of the enclosure 1P40 • of the enclosure IP40 • of the enclosure IP40 • of the enclosure IP20 shock resistance sinusoidal half-wave 15g / 11 ms • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • according to IEC 60068-2-6 10 500 Hz: 5g • according to IEC 60068-2-6 10 500 Hz: 5g • according to IEC 81346-2 P Substance Prohibitance (Date) 0301/2017 • at AC - at 50 Hz rated value 24 240 V			
product type designation 3SU1 Ceneral technical data	product brand name	SIRIUS ACT	
General technical data product component • diode • lamp transformer • light source • series resistor Insulation voltage rated value 320 V degree of pollution 3 type of voltage of the operating voltage • of or actuation AC/DC surge voltage resistance rated value • of the enclosure • of the sterminal IP20 shock resistance • according to IEC 60068-2-27 • sinusoidal half-wave 15g / 11 ms Category 1, Class B vibration resistance • 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 voltage • at AC - at 60 Hz rated value • at AC <td>product designation</td> <td>LED module</td>	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 20 mA protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance according to IEC 60068-2-27 • 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 voltage 03/01/2017 operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage 24 240 V • at AC at 60 Hz rated value 24 240 V </th <th colspan="3">General technical data</th>	General technical data		
• lamp transformer No • light source Yes • series resistor No insultation voltage rated value 320 V degree of pollution 3 type of voltage rated value 320 V degree of pollution 3 type of voltage resistance rated value 4 KV consumed current maximum 20 mA protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance sinusoidal half-wave 15g / 11 ms • of the terminal IP20 shock resistance sinusoidal half-wave 15g / 11 ms • of or 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 period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating period typical 100 000 h • at 60 Hz rated value 24 240 V • at 0C rated	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 consumed current maximum 20 mA protection class IP IP40 • of the terminal IP20 shock resistance inusoidal half-wave 15g / 11 ms • 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 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 • at AC - - at 60 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V - at 61 Hz rated value 24 240 V • at DC rated value 24 240 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 20 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 • according to IEC 60068-2-7 Substance Prohibitance (Date) • according to IEC 61346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage - • at AC - - at 60 Hz rated value 24 240 V • at AC - - at 60 Hz rated value 24 240 V • at AC - - at 60 Hz rated value 24 240 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 20 mA protection class IP IP40 • of the emclosure IP40 • of the terminal IP20 shock resistance according to IEC 60068-2-27 • 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 • at AC - at 50 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 24 240 V relative negative	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 20 mA protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance isuusoidal half-wave 15g / 11 ms • tor 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 03/01/2017 • 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 03/01/2017 • at AC	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 20 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 vibration resistance 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 00 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 03/01/2017 operating voltage • at AC - at 50 Hz rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 20 % control circuit/ Control 3A Control circuit/ Control 54 inrush current maximum 3A Connections/ Terminals spring-loaded terminals	insulation voltage rated value	320 V	
• for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 20 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 - • at AC - - at 50 Hz rated value 24 240 V - at 50 Hz rated value 24 240 V • at DC rated value 20 % control circuit/ Control - inrush current maximum 3 A Connections/ Terminals - type of electrical connection spring-loaded terminals <td>degree of pollution</td> <td>3</td>	degree of pollution	3	
surge voltage resistance rated value 4 kV consumed current maximum 20 mA protection class IP IP40 • of the enclosure IP40 • of the eterminal 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 - • according to IEC 60068-2-6 10 500 Hz: 5g • 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 - at 50 Hz rated value 24 240 V - at 50 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V • at DC rated value 20 % Control circuit/ Control Control circuit/ Control inrush current maximum 3 A Connec	type of voltage of the operating voltage	AC/DC	
Consumed current maximum20 mAprotection class IPIP40• of the enclosureIP40• 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 resistance10 500 Hz: 5g• 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)03/01/2017• at AC- at 50 Hz rated value- at 60 Hz rated value24 240 V- at 60 Hz rated value24 240 V• at DC rated value20 %control circuit/ Control00 %Inrush current maximum3 AConnections/ Terminalsspring-loaded terminals	for actuation	AC/DC	
protection class IP IP40 • of the enclosure IP20 shock resistance issock 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 - • at AC - — at 50 Hz rated value 24 240 V - at 0 Hz rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 24 240 V • at 00 Hz rated value 20 % control circuit/ Control inrush current maximum inrush current maximum 3 A Connections/ Terminals type of electrical connection	surge voltage resistance rated value	4 kV	
• of the enclosureIP40• of the terminalIP20shock resistanceinvestment• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistanceinvestment• 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 voltage03/01/2017• at AC24 240 V- at 60 Hz rated value24 240 V• at DC rated value24 240 V• at DC rated value24 240 V• at Correlative positive tolerance of the operating voltage20 %control circuit/ Control3 Aconnections/ Terminals3 Aconnections/ Terminalsspring-loaded terminals	consumed current maximum	20 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• at AC24 240 V- at 60 Hz rated value24 240 V• at DC rated value24 240 V• at DC rated value24 240 V• at DC rated value24 240 V• at Correlative positive tolerance of the operating voltage20 %control circuit/ Control3 Aconnections/ Terminals3 Atype of electrical connectionspring-loaded terminals	protection class IP		
shock 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 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage03/01/2017• at AC24 240 V- at 50 Hz rated value24 240 V• at DC rated value20 %Control circuit/ Control3 AConnections/ Terminals3 AConnections/ Terminalsspring-loaded terminals	 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 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) o3/01/2017 operating voltage at AC at SO Hz rated value 24 240 V at DC rated value 24 240 V e at DC rated value 24 240 V cate DC rated value 24 240 V cate DC rated value 24 240 V at DC rated value 20 % control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection spring-loaded terminals 	of the terminal	IP20	
• 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 03/01/2017 • at AC - at 50 Hz rated value - at 60 Hz rated value 24 240 V • at DC rated value 20 % Control circuit/ Control 20 % Control circuit/ Control 3 A Connections/ Terminals spring-loaded terminals	shock resistance		
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 • at AC at 50 Hz rated value 24 240 V at 60 Hz rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % Control circuit/ Control 3 A Connections/ Terminals type of electrical connection	 according to IEC 60068-2-27 	sinusoidal half-wave 15g / 11 ms	
 according to IEC 60068-2-6 for railway applications according to EN 61373 category 1, Class B operating period typical 100 000 h reference code according to IEC 81346-2 Substance Prohibitance (Date) o3/01/2017 operating voltage at AC at AC at OHz rated value at AC at DC rated value at DC rated value at DC rated value at DC rated value at AC V be observed to the operating voltage at AC V be observed to the operating voltage at AC V be observed to the operating voltage connections/ Terminals type of electrical connection 	 for railway applications according to EN 61373 	Category 1, Class B	
• 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 • at AC - at 50 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V • at DC rated value 20 % relative positive tolerance of the operating voltage 20 % Control circuit/ Control 3 A Connections/ Terminals type of electrical connection	vibration resistance		
operating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage • at AC24 240 V at 50 Hz rated value24 240 V at 60 Hz rated value24 240 V• at DC rated value24 240 Vrelative positive tolerance of the operating voltage20 %Control circuit/ Control3 AConnections/ Terminals3 rated terminalstype of electrical connectionspring-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 03/01/2017 • at AC	 for railway applications according to EN 61373 	Category 1, Class B	
Substance Prohibitance (Date) 03/01/2017 operating voltage • at AC - at 50 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % control circuit/ Control 20 % inrush current maximum 3 A Connections/ Terminals spring-loaded terminals	operating period typical	100 000 h	
operating voltage • at AC - at 50 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 3 A Connections/ Terminals spring-loaded terminals	reference code according to IEC 81346-2	P	
• at AC - at 50 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 3 A Connections/ Terminals spring-loaded terminals	Substance Prohibitance (Date)	03/01/2017	
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at 60 Hz rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 3 A Connections/ Terminals spring-loaded terminals	• at AC		
● at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 3 A Connections/ Terminals spring-loaded terminals	— at 50 Hz rated value	24 240 V	
relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 3 A Connections/ Terminals spring-loaded terminals	— at 60 Hz rated value	24 240 V	
relative negative tolerance of the operating voltage 20 % Control circuit/ Control 3 A inrush current maximum 3 A Connections/ Terminals spring-loaded terminals	 at DC rated value 	24 240 V	
Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection spring-loaded terminals	relative positive tolerance of the operating voltage	20 %	
inrush current maximum 3 A Connections/ Terminals	relative negative tolerance of the operating voltage	20 %	
Connections/ Terminals type of electrical connection spring-loaded terminals	Control circuit/ Control		
type of electrical connection spring-loaded terminals	inrush current maximum	3 A	
	Connections/ Terminals		
type of connectable conductor cross-sections	type of electrical connection	spring-loaded terminals	
	type of connectable conductor cross-sections		

 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 	2x (0.25 1.5 mm²)
at AWG cables	2x (24 16)
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	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	
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=3SU1401-2BH40-3AA0-Z X90	
Cax online generator	
http://gupport.gutomation.giomana.gom/M/M/CA.Varder/defau	It appy2lang_on2mlfb=2811401.28440.2440.7 V00

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2BH40-3AA0-Z X90 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BH40-3AA0-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=3SU1401-2BH40-3AA0-Z X90&lang=en



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