3SU1401-2BB40-1AA0-Z X90

Data sheet



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

product type designation general technical data product component	product brand name	SIRIUS ACT
General technical data product component • diode • lamp transformer • light source • light source • light source • series resistor • no insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage • for actuation surge voltage resistance rated value 25 mA protection class IP • of the enclosure • of the enclosure • a coording to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 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 vibration resistance • according to IEC 81346-2 P Substance Prohibitance (Date) operating period typical • at AC — at 50 Hz rated value — at 60 Hz rated value — a	product designation	LED module
Product component • diode Yes elamp transformer No No No No No No No N	product type designation	3SU1
• diode • lamp transformer • light source • series resistor No insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage • for actuation AC/DC surge voltage resistance rated value • for actuation AC/DC surge voltage resistance rated value • for actuation AC/DC surge voltage resistance rated value • for actuation AC/DC surge voltage resistance rated value • according to less IP • of the enclosure • of the terminal Shock resistance • according to IEC 60068-2-27 • for rallway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for rallway applications according to EN 61373 operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating vol	General technical data	
• lamp transformer • light source • series resistor Insulation voltage rated value degree of pollution 3 1ype of voltage of the operating voltage • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP • of the enclosure • of the terminal IP20 shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 vibration resistance • according to IEC 80068-2-6 • for railway applications according to EN 61373 category 1, Class B operating period typical 100 000 th reference code according to IEC 81346-2 Substance Prohibitiance (Date) operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value • at DC rated value relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage type of electrical connection	product component	
Series resistor No	• diode	Yes
Series resistor Insulation voltage rated value degree of pollution 3 Yupe of voltage of the operating voltage of or actuation AC/DC surge voltage resistance rated value of the enclosure of the enclosure of the terminal Shock resistance according to IEC 60068-2-27 of or railway applications according to EN 61373 Vibration resistance according to IEC 60068-6 of or railway applications according to EN 61373 Category 1, Class B vibration resistance of railway applications according to EN 61373 category 1, Class B operating period typical operating period typical reference code according to IEC 81346-2 Puber of the AC at SO Hz rated value at AC at SO Hz rated value 24 V at OB Hz rated value 24 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection	 lamp transformer 	No
insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage of or actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 25 mA protection class IP of the enclosure of the terminal iP20 shock resistance according to IEC 60068-2-27 of or ratilway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 80068-2-6 of or railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 81346-2 publications according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 at AC at 50 Hz rated value at AC at 50 Hz rated value at DC rated value 24 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection	• light source	Yes
degree of pollution type of voltage of the operating voltage • for actuation • for actuation • for actuation Surge voltage resistance rated value consumed current maximum 25 mA protection class IP • of the enclosure • of the terminal shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 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 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 category 1, Class B operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value — at 60 Hz rated value — at 60 Hz rated value • at DC rated value	 series resistor 	No
type of voltage of the operating voltage	insulation voltage rated value	320 V
of ractuation surge voltage resistance rated value consumed current maximum protection class IP of the enclosure of the enclosure of the terminal shock resistance occording to IEC 60068-2-27 of or railway applications according to EN 61373 vibration resistance occording to IEC 60068-2-6 or railway applications according to EN 61373 vibration resistance ocacording to IEC 60068-2-6 or railway applications according to EN 61373 category 1, Class B or railway applications according to EN 61373 category 1, Class B operating value operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 oat AC	degree of pollution	3
surge voltage resistance rated value consumed current maximum 25 mA protection class IP of the enclosure of the terminal IP20 shock resistance according to IEC 60068-2-27 in railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 at AC — at 50 Hz rated value — at 60 Hz rated value — at 60 Hz rated value — at 50 Hz rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage inrush current maximum 2 A Connections/ Terminals type of electrical connection Simusoidal half-wave 15g / 11 ms Category 1, Class B 10 500 Hz: 5g Category 1, Class B 10 500 Hz: 5g Category 1, Class B 03/01/2017 03/01/2017 24 V 24 V 24 V 24 V 26 V 27 V 28 V 29 V 20 % Control Circuit/ Control Inrush current maximum 2 A Connections/ Terminals type of electrical connection	type of voltage of the operating voltage	AC/DC
consumed current maximum protection class IP of the enclosure of the terminal shock resistance according to IEC 60068-2-27 of ror railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of ror railway applications according to EN 61373 vibration resistance of ror railway applications according to EN 61373 vibration resistance of ror railway applications according to EN 61373 vibration resistance of ror railway applications according to EN 61373 category 1, Class B vibration resistance of ror railway applications according to EN 61373 category 1, Class B vibration PP Substance Prohibitance (Date) operating voltage 1 of AC of AC of AC of AC of Tated value of AC of Tated	for actuation	AC/DC
protection class IP of the enclosure of the terminal shock resistance according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 category 1, Class B 10 500 Hz: 5g category 1, Class B category 1, Class B 10 500 Hz: 5g category 1, Class B 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 at AC at 50 Hz rated value at DC rated value at DC rated value at DC rated value 24 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection	surge voltage resistance rated value	4 kV
of the enclosure of the terminal index resistance according to IEC 60068-2-27 of railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 60068-2-6 of 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) operating voltage 1 oat AC — at 50 Hz rated value — at 60 Hz rated value at DC rated value at DC rated value at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection screw-type terminals	consumed current maximum	25 mA
of the terminal shock resistance oaccording to IEC 60068-2-27 of railway applications according to EN 61373 Category 1, Class B vibration resistance oaccording to IEC 60068-2-6 of railway applications according to EN 61373 Category 1, Class B vibration resistance oaccording to IEC 60068-2-6 of 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) oylo1/2017 operating voltage 1 oat AC	protection class IP	
shock resistance	 of the enclosure 	IP40
according to IEC 60068-2-27 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 operating period typical feference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 at AC — at 50 Hz rated value — at 60 Hz rated value at DC rated value at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum according to IEC 61373 Category 1, Class B 10 500 Hz: 5g Category 1, Class B 100 000 h PP 24 V 24 V 24 V 24 V 24 V 24 V 26 V 27 V 28 V 29 W Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection sinusoidal half-wave 15g / 11 ms Category 1, Class B 10 500 Hz: 5g Category 1, Class B 10 500 Hz: 6p Category 1, Class B 100 000 h Categor	of the terminal	IP20
• for railway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage inrush current maximum 2 A Connections/ Terminals type of electrical connection 10 500 Hz: 5g 10 5g 10 5g 10 5g 10 5g 10 5g 10	shock resistance	
vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value • at DC rated value • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage inrush current maximum 2 A Connections/ Terminals type of electrical connection 100 500 Hz: 5g Category 1, Class B 10 500 Hz: 5g Category 1, Class B 20 000000 03/01/2017 04/01/2017 04/	according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
according to IEC 60068-2-6 of railway applications according to EN 61373 operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 oat AC — at 50 Hz rated value — at 60 Hz rated value oat DC rated value oat DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum zero. inrush current maximum zero. inrush currentical connection screw-type terminals type of electrical connection	 for railway applications according to EN 61373 	Category 1, Class B
• for railway applications according to EN 61373 operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value • at DC rated value • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum inrush current maximum 2 A Connections/ Terminals type of electrical connection Category 1, Class B 100 000 h 100 000 h 20 003/01/2017 24 V 24 V 24 V 26 V 20 % Control circuit/ Control is screw-type terminals	vibration resistance	
operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 outline at AC	according to IEC 60068-2-6	10 500 Hz: 5g
reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value 24 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection P 03/01/2017 24 V 24 V 24 V 26 V 27 V 28 V 29 V 20 V 20 V 20 V Control circuit/ Control inrush current maximum 2 A Connections/ Terminals	 for railway applications according to EN 61373 	Category 1, Class B
Substance Prohibitance (Date) 03/01/2017 operating voltage 1 4 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 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 2 A inrush current maximum 2 A Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals	operating period typical	100 000 h
operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value • at DC rated value • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection screw-type terminals	reference code according to IEC 81346-2	P
 at AC at 50 Hz rated value at 60 Hz rated value at DC rated value at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage 20 % Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection screw-type terminals	Substance Prohibitance (Date)	03/01/2017
- at 50 Hz rated value - at 60 Hz rated value ● at DC rated value 124 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection 24 V 26 V 27 V 28 V 29 W 20	operating voltage 1	
- at 60 Hz rated value • at DC rated value 24 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection 24 V 26 V 27 V 28 V 29 W 20	• at AC	
● at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection 24 V 20 % 20 % 2 A	— at 50 Hz rated value	24 V
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection 20 % 20 % 20 %	— at 60 Hz rated value	24 V
relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection screw-type terminals	at DC rated value	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 type of electrical connection 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	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	Floor 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=3SU1401-2BB40-1AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2BB40-1AA0-Z X90

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BB40-1AA0-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=3SU1401-2BB40-1AA0-Z X90&lang=en

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