3SU1401-1BB60-3AA0-Z X90

Data sheet



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

product type designation 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 insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage • for actuation surge voltage resistance rated value 4 kV 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 vibration resistance • according to IEC 60088-2-6 • 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	product designation	LED module
product component • 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 surge voltage resistance rated value consumed current maximum 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 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 vibration resistance • according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value — a	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 consumed current maximum protection class IP • of the enclosure • of of the terminal shock resistance • according to IEC 60068-2-27 • for ratilway applications according to EN 61373 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 Operating voltage 1 • at AC — at 50 Hz rated value • at DC rated value • at	General technical data	
• lamp transformer • light source • series resistor Insulation voltage rated value 4 series resistor Insulation voltage rated value 320 V degree of pollution 3 Type 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 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 operating period typical 100 000 h reference code according to IEC 81346-2 Substance Prohibitance (Date) 03/01/2017 operating voltage 1 • at AC — at 50 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 rolative current maximum 2A Connections/ Terminals type of electrical connection specific years	product component	
Series resistor No	diode	Yes
• series resistor insulation voltage rated value degree of pollution 320 V degree of pollution 3 AC/DC • for actuation AC/DC surge voltage resistance rated value • for the enclosure • 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 operating period typical reference code according to IEC 81346-2 Substance Porbibitance (Date) operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value • at DC rated value • at DC rated value • at DC rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage type of electrical connection spring-loaded terminals type of electrical connection sack/DC AC/DC AC/D	 lamp transformer 	No
insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage • for actuation AC/DC • for actuation 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 • 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-B • for railway applications according to EN 61373 Category 1, Class B operating period typical reference code according to IEC 81346-2 Publistance 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 24 V • at DC rated value	• light source	Yes
degree of pollution type of voltage of the operating voltage of or actuation of or actuation AC/DC 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 of or railway 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 60068-2-6 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) 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	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 25 mA protection class IP of the enclosure of the enclosure of the terminal shock resistance according to IEC 60068-2-27 of ro railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of ro railway applications according to EN 61373 vibration resistance of ro railway applications according to EN 61373 vibration resistance of ro railway applications according to EN 61373 vibration resistance of ro railway applications according to EN 61373 vibration resistance of ro railway applications according to EN 61373 vibration resistance of ro railway applications according to EN 61373 category 1, Class B vibration Positive Locate of ro railway applications according to EN 61373 category 1, Class B vibration Positive Locate of ro railway applications according to EN 61373 category 1, Class B vibration Positive Locate of ro railway applications according to EN 61373 category 1, Class B vibration Positive States B vibration Positive Locate of the device B 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 o at AC — at 50 Hz rated value 24 V — at 60 Hz rated value 24 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage	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 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 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 24 V 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 IP40 IP40 IP40 IP40 IP40 IP40 IP40 IP4	type of voltage of the operating voltage	AC/DC
consumed current maximum protection class IP of the enclosure of the terminal liP20 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 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 vibration resistance according to IEC 81346-2 Departing period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 out AC at 50 Hz rated value at AC at 50 Hz rated value at DC rate	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 vibration resistance for railway applications according to EN 61373 category 1, Class B category 1, Class B operating period typical for railway applications according to EN 61373 operating period typical for railway applications 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 DC rated value at DC rated value 24 V at DC rated value 25 % 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 spring-loaded terminals	surge voltage resistance rated value	4 kV
of the enclosure of the terminal iP20 shock 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 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 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 at DC rated value category 1, Class B one All value at AC — at 50 Hz rated value at AC at 50 Hz rated value at DC rated value at DC rated value category 1, Class B one All value at AC — at 50 Hz rated value at AC oat 50 Hz rated value at DC rated	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 or railway applications according to EN 61373 category 1, Class B vibration resistance oaccording to IEC 60068-2-6 or railway applications according to EN 61373 category 1, Class B operating period typical	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 reference code according to IEC 81346-2 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 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 sinusoidal half-wave 15g / 11 ms Category 1, Class B 10 500 Hz: 5g Category 1, Class B 100 000 h P 24 V 24 V 24 V 24 V 24 V 25 % 30 % Connections/ Terminals 4 A Connections/ Terminals 5 pring-loaded terminals	 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 • 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 Category 1, Class B 10 500 Hz: 5g Category 1, Class B 10 500 Hz Category 1, Class B 100 500 Hz Cate	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 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 100 500 Hz: 5g Category 1, Class B 10 500 Hz: 5g Category 1, Class B 100 .000 h 20 500 Hz: 5g Category 1, Class B 100 .000 h 20 500 Hz: 5g Category 1, Class B 100 .000 h 24 V 24 V 24 V 24 V 24 V 25 % relative negative tolerance of the operating voltage 25 % relative negative tolerance of the operating voltage Spring-loaded terminals	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	 for railway applications according to EN 61373 	Category 1, Class B
of 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 Z A Connections/ Terminals type of electrical connection Solution 100 000 h 100 0	vibration resistance	
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 24 V • 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 100 000 h P 03/01/2017 03/01/2017 24 V 24 V 24 V 25 % 30 % Control circuit/ Control spring-loaded terminals	according to IEC 60068-2-6	10 500 Hz: 5g
reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 o at AC — at 50 Hz rated value — at 60 Hz rated value o 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 positive tolerance of the operating voltage 2 A	 for railway applications according to EN 61373 	Category 1, Class B
Substance Prohibitance (Date) operating voltage 1 o 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 relative negative tolerance of the operating voltage inrush current maximum 2 A Connections/ Terminals type of electrical connection o3/01/2017 24 V 24 V 25 % 30 % Control circuit/ Control spring-loaded terminals	operating period typical	100 000 h
operating voltage 1 • at AC — at 50 Hz rated value — at 60 Hz rated value 24 V • at DC rated value 25 % 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 spring-loaded terminals	reference code according to IEC 81346-2	Р
 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 30 % Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection spring-loaded 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 25 % 26 % 27 % 28 % 29 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % 20	operating voltage 1	
- 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 70 Tontrol circuit/ Control 10 Inrush current maximum 10 A 11 Connections/ Terminals 12 Terminals 13 Terminals 14 Terminals 15 Terminals 16 Terminals 17 Terminals 18 Terminals	• 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 25 % 30 % 2 A Connections/ Terminals spring-loaded terminals	— 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 spring-loaded terminals	— at 60 Hz rated value	24 V
relative negative tolerance of the operating voltage 30 % Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection spring-loaded terminals	at DC rated value	24 V
Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection spring-loaded terminals	relative positive tolerance of the operating voltage	25 %
inrush current maximum 2 A Connections/ Terminals type of electrical connection spring-loaded terminals	relative negative tolerance of the operating voltage	30 %
Connections/ Terminals type of electrical connection spring-loaded terminals	Control circuit/ Control	
type of electrical connection spring-loaded terminals	inrush current maximum	2 A
7.	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	white
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	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=3SU1401-1BB60-3AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1BB60-3AA0-Z X90

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1BB60-3AA0-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=3SU1401-1BB60-3AA0-Z X90&lang=en

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