3SU1401-2BB50-3AA0-Z X90

Data sheet



LED module with integrated LED 24 V AC/DC, blue, spring-type terminal, for floor 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 • series resistor 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 • a cororing to IEC 60068-2-27 • for railway applications according to EN 61373 vibration resistance • a cororing to IEC 60068-2-6 • for railway applications according to EN 61373 vibration resistance • a cororing to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B vibration resistance • a cororing to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B vibration resistance • a cororing to IEC 81346-2 • a for railway applications according to EN 61373 Category 1, Class B vibration resistance • a cororing to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B vibration resistance • a cororing to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B vibration resistance • a coroling to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B vibration resistance • a coroling to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B vibration resistance • at AC • at AC • at AC • at AC • at Corolistic tolerance (Date) 03/01/2017 operating voltage 1 • at AC • at 60 Hz rated value • at OC rated value relative negative tolerance of the operating voltage control circuit Control inrush current maximum 2 A Connections/ Terminals type of electrical connection	product designation	LED module
Product component • diode	product type designation	3SU1
ilight source ilight source iseries resistor No insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage insulation voltage resistance rated value insulation voltage resistance rated value insulation insulation voltage insulation insulation voltage insulation insulation voltage insulation insulation voltage insulation in	General technical data	
• lamp transformer • light source • series resistor Insulation voltage rated value 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 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 reference code according to IEC 81346-2 Substance Prohibitance (Date) • 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 type of electrical connection spring-loaded terminals type of electrical connection spring-loaded terminals type of electrical connection source AC/DC AC/D	product component	
Iight source Series resistor No	diode	Yes
• series resistor insulation voltage rated value degree of pollution 320 V degree of pollution 34 K/DC • for actuation surge voltage of the operating voltage • for 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 • 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 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 0 Hz rated valu	 lamp transformer 	No
insulation voltage rated value degree of pollution 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 for 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 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 C rated value at C rated value at D c 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 relative negative tolerance of the operating voltage control circuit/ Control irrush current maximum 2A Connections/ Terminals type of electrical connection spring-loaded terminals type of electrical connection	• light source	Yes
degree of pollution type of voltage of the operating voltage • for actuation • for 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 • 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 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 60 Hz rated value — at 60 Hz rated value • at DC rate	series resistor	No
type of voltage of the operating voltage	insulation voltage rated value	320 V
• for actuation 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 • 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 80348-2-6 • for railway applications according to EN 61373 category 1, Class B vibration resistance • according to IEC 81346-2 • for railway applications according to EN 61373 category 1, Class B operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 • at AC — at 50 Hz rated value 24 V — at 60 Hz rated value 24 V • at DC rated value • at DC 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 spring-loaded terminals	degree of pollution	3
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 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 of railway applications according to EN 61373 category 1, Class B vibration resistance of railway applications according to EN 61373 category 1, Class B vibration resistance of railway applications according to EN 61373 category 1, Class B vibration resistance of railway applications according to EN 61373 category 1, Class B vibration resistance of railway applications according to EN 61373 category 1, Class B vibration resistance of railway applications according to EN 61373 category 1, Class B vibration resistance of railway applications according to EN 61373 category 1, Class B vibration resistance of railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373 category 1, Class B vibration railway applications according to EN 61373	type of voltage of the operating voltage	AC/DC
consumed current maximum protection class IP of the enclosure of the terminal lP20 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 operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 out AC at 50 Hz rated value at AC at 50 Hz rated value at DC rated value a	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 DC rated value at DC rated value at DC rated value 24 V at DC rated value 24 V at DC rated value 24 V 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 03/01/2017 09000 h 24 V 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 relative negative 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 relative negative tolerance of sperating voltage relative negative	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 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) oa/01/2017 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 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 a category 1, Class B 10 500 Hz: 5g Category 1, Class B 100 000 h P Category 1, Class B 100 000 h Category	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 100 000 h 100 00 h	shock resistance	
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 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 spring-loaded terminals type of electrical connection	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 2 A Connections/ Terminals type of electrical connection	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 • 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 100 000 h 2 P 03/01/2017 03/01/2017 04/04 24 V 24 V 24 V 24 V 20 % Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection 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 Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection 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 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	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 % relative negative tolerance of the operating voltage 20 % 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 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 20 % Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection spring-loaded 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 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 spring-loaded terminals	— 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 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	20 %
inrush current maximum 2 A Connections/ Terminals type of electrical connection spring-loaded 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	2 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 finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables 2x (0.25 1.5 mm²) 2x (24 16) Lamp type of light source color of the light source light intensity 280 710 mcd certificate of suitability ATEX IECEX No Ambient conditions ambient temperature during operation during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method 2x (0.25 1.5 mm²) 2x (24 16) 280 710 mcd 280
 finely stranded without core end processing at AWG cables 2x (0.25 1.5 mm²) 2x (24 16) Lamp type of light source cleD color of the light source light intensity extificate of suitability ATEX IECEx No Ambient conditions ambient temperature during operation during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions 2x (0.25 1.5 mm²) 2x (24 16) No No No No -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted) Installation/ mounting/ dimensions
 at AWG cables 2x (24 16) Lamp type of light source color of the light source light intensity ATEX IECEX No Ambient conditions ambient temperature during operation during storage during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions LED LED Vo 280 710 mcd No No No No Ambient temperature -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted) Installation/ mounting/ dimensions
type of light source color of the light source light intensity • ATEX • IECEx No Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions
type of light source color of the light source light intensity • ATEX • IECEX Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions blue 280 710 mcd No No -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)
color of the light source light intensity 280 710 mcd certificate of suitability ATEX INO IECEX No Ambient conditions ambient temperature during operation during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions
light intensity certificate of suitability ATEX INO IECEX No Ambient conditions ambient temperature during operation during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions 280 710 mcd No No No No Antick No No -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)
certificate of suitability • ATEX • IECEX Ambient conditions ambient temperature • during operation • during storage • during storage -40 +80 °C environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions
ATEX IECEX No Ambient conditions ambient temperature during operation during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions No No No No No No Ambient temperature -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)
No Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions No -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)
Ambient conditions ambient temperature • during operation • during storage • during storage -40 +80 °C environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions
ambient temperature • during operation • during storage • during storage • during storage • during storage -40 +80 °C environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions
 ◆ during operation ← during storage ← 40 +80 °C environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions ←25 +70 °C ←40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)
 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
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
60721 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=3SU1401-2BB50-3AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2BB50-3AA0-Z X90 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BB50-3AA0-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=3SU1401-2BB50-3AA0-Z X90&lang=en

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