3SU1401-2BG50-1AA0

Data sheet



LED module with integrated LED 6-24V AC/DC blue, screw terminal, for floor mounting $\,$

product type designation product type designation general technical data product component diode lamp transformer light source series resistor series resistor No degree of pollution 320 V degree of pollution 33 VPC degree of pollution 34 VFC source sestiance rated value 4 kV 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 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 20 ca	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 4 kV consumed current maximum 30 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 vibration resistance • according to IEC 81346-2 P Substance Prohibitance (Date) • at AC — at 50 Hz rated value • at AC — at 60 Hz rated value • at Crated va	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 Publicance Prohibitance (Date) operating voltage • at AC — at 50 Hz rated value — at 60 H	product type designation	3SU1
idiode ilamp transformer ilight source iseries resistor No insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage if or actuation AC/DC surge voltage resistance rated value consumed current maximum protection class IP of the enclosure if or allway applications according to EN 61373 vibration resistance according to IEC 60068-2-07 if or railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 60068-2-6 if or railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 60068-2-6 if or railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 60068-2-6 if or railway applications according to EN 61373 category 1, Class B vibration resistance actording to IEC 60068-2-6 if or allway applications according to EN 61373 category 1, Class B vibration resistance actording to IEC 60068-2-6 if or allway applications according to EN 61373 category 1, Class B vibration resistance actording to IEC 60068-2-6 if or allway applications according to EN 61373 category 1, Class B vibration resistance actording to IEC 81346-2 p Substance Prohibitance (Date) operating voltage at AC act AC	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 30 mA protection class IP • of the enclosure • of the terminal HP20 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 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 rolative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection	product component	
● series resistor No insulation voltage rated value degree of pollution type of voltage of the operating voltage of or actuation protection class IP of the enclosure of the terminal shock resistance according to IEC 60068-2-27 of or railway applications according to EN 61373 vibration resistance of or laway applications according to EN 61373 vibration resistance of or railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 vibration resistance according to IEC 81346-2 poperating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage at AC — at 50 Hz rated value at DC rated value at	diode	Yes
• series resistor No	 lamp transformer 	No
insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage • for actuation surge voltage resistance rated value of the terminal shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage • at AC — at 50 Hz rated value • at DC rat	• light source	Yes
degree of pollution type of voltage of the operating voltage of ra actuation AC/DC surge voltage resistance rated value consumed current maximum 30 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 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 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) operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value 6 24 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control irrush 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
• for actuation surge voltage resistance rated value consumed current maximum 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 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 category 1, Class B vibration resistance • according to IEC 80068-2-6 • 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 • at AC — at 50 Hz rated value	degree of pollution	3
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 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 according to IEC 81346-2 P Substance Prohibitance (Date) 10/01/2014 operating voltage of at AC - at 50 Hz rated value - at 60 Hz rated value of 24 V of at DC rated value of 24 V of at	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 of AC at 50 Hz rated value at AC at 50 Hz rated value of LZ 4 V at DC rated value of LZ 4 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 sinusoidal half-wave 15g / 11 ms category 1, Class B 10 500 Hz: 5g 10 500 Hz: 5	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 at AC at 50 Hz rated value at 60 Hz rated value at DC rated va	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 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 at AC — at 50 Hz rated value — at 60 Hz rated value at DC rated value at DC rated value at DC rated value eat DC rated value felative 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	consumed current maximum	30 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) operating voltage 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 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 60068-2-6 10 500 Hz: 5g Category 1, Class B 100 000 h P 10/01/2014 10/01/2014 6 24 V 6 24 V 6 24 V 7 elative positive tolerance of the operating voltage 20 % 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 Category 1, Class B 10	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 • 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 z 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 P Substance Prohibitance (Date) operating voltage • 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	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 o 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 z A Connections/ Terminals type of electrical connection 100 000 h 10	 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 • 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 positive tolerance of the operating voltage relative negative tolerance of the operating voltage	vibration resistance	
operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage • at AC	according to IEC 60068-2-6	10 500 Hz: 5g
reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage • 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	 for railway applications according to EN 61373 	Category 1, Class B
Substance Prohibitance (Date) operating voltage • 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 control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection 10/01/2014 6 24 V 6 24 V 20 % 20 % Control circuit/ Control screw-type terminals	operating period typical	100 000 h
operating voltage	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 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)	10/01/2014
- at 50 Hz rated value 6 24 V - at 60 Hz rated value 6 24 V • at DC rated value 6 24 V relative positive 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 screw-type terminals	operating voltage	
- at 60 Hz rated value 6 24 V • at DC rated value 6 24 V relative positive 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 screw-type terminals	• at AC	
● at DC rated value 6 24 V relative positive 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 screw-type terminals	— at 50 Hz rated value	6 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 %	— at 60 Hz rated value	6 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	6 24 V
Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection screw-type terminals	relative positive tolerance of the operating voltage	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	blue		
light intensity	280 710 mcd		
certificate of suitability			
• ATEX	No		
• IECEx	No		
Ambient conditions			
ambient temperature			
	-25 +70 °C		
ambient temperature	-25 +70 °C -40 +80 °C		
ambient temperature • during operation			
 ambient temperature during operation during storage environmental category during operation according to IEC 	-40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no		
ambient temperature	-40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no		
ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions	-40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no		
ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method	-40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)		
ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method • of modules and accessories	-40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted) Floor mounting		
ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method • of modules and accessories height	-40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted) Floor mounting 33.2 mm		
ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method • of modules and accessories height width	-40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted) Floor mounting 33.2 mm 9.8 mm		
ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method • of modules and accessories height width depth	-40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted) Floor mounting 33.2 mm 9.8 mm		
ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method • of modules and accessories height width depth suitability for integration	-40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted) Floor mounting 33.2 mm 9.8 mm 29.4 mm		



General Product Approval

Confirmation







EMC



Declaration of

Conformity

Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other





Environmental Confirmations Confirmation

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=3SU1401-2BG50-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2BG50-1AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BG50-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-2BG50-1AA0⟨=en			
last modified:	3/9/2022 🖸		