SIEMENS

Data sheet



LED module with integrated LED 5 V DC, red, solder terminal, for use on printed circuit boards, Z=50-unit packaging

product brand name SIRIUS ACT product degination LED module product type designation SSU1 General technical data product component did by the series of the		
product type designation General technical data product component	•	
General technical data product component i diode i diode i lamp transformer ilight source series resistor No insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage for actuation DC surge voltage resistance rated value 0.8 kV consumed current maximum Drotection class IP of the enclosure of the enclosure of the terminal P20 shock resistance according to IEC 60068-2-27 infor railway applications according to EN 61373 Category 1, Class B violation resistance according to IEC 60068-2-8 for railway applications according to EN 61373 Category 1, Class B coperating period typical Incomparity operating period bytical reference code according to IEC 81346-2 PSubstance Prohibitance (Date) Operating period vpical Federate of the operating voltage Voltage 1 at DC rated value Federate of the operating voltage Telative positive tolerance of the operating voltage Telative negative tolerance of the operating voltage Control circuit/ Control Incus current maximum On IA Connections/ Terminals Type of light source LED Led Cool of the light source Light intensity 450 1120 mcd	product designation	LED module
product component diode lamp transformer light source series resistor No insulation voltage rated value degree of pollution lype of voltage of the operating voltage for actuation DC surge ovoltage resistance rated value O.8 kV consumed current maximum Drotection class IP of the enclosure of the enclosure of the terminal lip20 shock resistance according to IEC 60068-2-7 of ratilway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 of ratilway 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 out Do Category (Date Service) at DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC rated value out DC retains voltage 1 out DC retains voltage 20% control circuit/ Control incus current maximum Out A Connections/ Terminals type of electrical connection LED coor of the light source light intensity 450 1120 mcd		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 DC • for actuation Surge voltage resistance rated value • of the denoisure • of the enclosure • of the eminal 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 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 operating period typical 100 000 th reference code according to IEC 81346-2 p Substance Prohibitance (Date) operating voltage 1 • at DC rated value for at DC rated value relative negative tolerance of the operating voltage control circuit/ Control inrus current maximum 0.1 A Connections/ Torminals type of electrical connection Socket connection (THT) Lamp Type of light source red light intensity 450 1120 med	General technical data	
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Insulation voltage rated value Insulation voltage and value Insulation voltage of pollution Itype of voltage of the operating voltage Itype of voltage resistance rated value Itype of voltage current maximum Itype of voltage resistance Itype of the enclosure Itype of the enclosure Itype of the terminal Itype of the operating voltage Itype of teleptrical connection Itype of light source LED Itype of light source	• diode	Yes
series resistor Insulation voltage rated value degree of pollution 30 V degree of pollution protage of the operating voltage	lamp transformer	No
insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage of cactuation DC surge voltage resistance rated value 0.8 kV consumed current maximum 20 mA protection class IP of the enclosure of the terminal IP20 shock resistance according to IEC 60068-2-7 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 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 operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 10/01/2014 operating voltage 1 at DC rated value 5 V relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Lamp type of light source [ight intensity 450 1 120 mcd	• light source	Yes
degree of pollution type of voltage of the operating voltage of or actuation DC surge voltage resistance rated value of the enclosure of the terminal protection class IP 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 or 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 DC rated value feature 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 type of electrical connection Socket connection (THT) Lamp type of light source light intensity 450 1120 mcd	series resistor	No
type of voltage of the operating voltage	insulation voltage rated value	30 V
For actuation DC	degree of pollution	3
surge voltage resistance rated value consumed current maximum 20 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 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 for railway applications according to EN 61373 category 1, Class B operating period typical for railway applications according to EN 61373 category 1, Class B operating voltage 1 operating voltage 1 at DC rated value feterence code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 at DC rated value 5 V relative positive tolerance of the operating voltage 20 % control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source LED color of the light source light intensity 450 1 120 mcd	type of voltage of the operating voltage	DC
consumed current maximum 20 mA protection class IP of the enclosure IP40 of the terminal IP20 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g 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) 10/01/2014 operating voltage 1 at DC rated value 5 V relative positive tolerance of the operating voltage 20 % control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source LED color of the light source red light intensity 450 1 120 mcd	• for actuation	DC
protection class IP of the enclosure of the terminal shock resistance according to IEC 60068-2-7 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 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 of at DC rated value substitute tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum on the connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source color of the light source light intensity 450 1 120 mcd	surge voltage resistance rated value	0.8 kV
of the enclosure of the terminal iP20 shock resistance according to IEC 60068-2-27	consumed current maximum	20 mA
of the terminal shock resistance occording to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications according to EN 61373 Category 1, Class B vibration resistance occording to IEC 60068-2-6 of railway applications according to EN 61373 Category 1, Class B operating period typical operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 ot DC rated value or 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	protection class IP	
shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 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 DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection LED color of the light source LED color of the light source light intensity 450 1 120 mcd	 of the enclosure 	IP40
according to IEC 60068-2-27 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 for railway applications according to EN 61373 operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 at DC rated value for railway applications according to EN 61373 operating voltage 1 at DC rated value 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 operating voltage 20 % relative positive tolerance of the operating voltage 20 % control circuit/ Control inrush current maximum	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 Category 1, Class B operating period typical operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum O.1 A Connections/ Terminals type of electrical connection Lamp type of light source LED color of the light source light intensity 450 1 120 mcd	shock resistance	
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* 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) 10/01/2014 operating voltage 1 * at DC rated value 5 V relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source LED color of the light source red light intensity 450 1 120 mcd	 for railway applications according to EN 61373 	Category 1, Class B
• for railway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 10/01/2014 operating voltage 1 • at DC rated value 5 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source LED color of the light source light intensity 450 1 120 mcd	vibration resistance	
operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum on 1 A Connections/ Terminals type of electrical connection type of light source color of the light source light intensity 100 000 h	according to IEC 60068-2-6	10 500 Hz: 5g
reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 1 • at DC rated value 5 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source color of the light source light intensity 450 1 120 mcd	 for railway applications according to EN 61373 	Category 1, Class B
Substance Prohibitance (Date) operating voltage 1 o at DC rated value felative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum o.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source color of the light source light intensity 450 1 120 mcd	operating period typical	100 000 h
operating voltage 1 ● at DC rated value 5 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source color of the light source light intensity 450 1 120 mcd	reference code according to IEC 81346-2	Р
• at DC rated value 5 V relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source LED color of the light source red light intensity 450 1 120 mcd	Substance Prohibitance (Date)	10/01/2014
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage 20 % Control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Lamp type of light source color of the light source light intensity 450 1 120 mcd	operating voltage 1	
relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source color of the light source light intensity 450 1 120 mcd	at DC rated value	5 V
Control circuit/ Control inrush current maximum Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source color of the light source light intensity 450 1 120 mcd	relative positive tolerance of the operating voltage	20 %
inrush current maximum Connections/ Terminals type of electrical connection Lamp type of light source color of the light source light intensity 0.1 A Socket connection (THT) LED red light intensity	relative negative tolerance of the operating voltage	20 %
type of electrical connection Lamp type of light source color of the light source light intensity Socket connection (THT) LED red LED red	Control circuit/ Control	
type of electrical connection Socket connection (THT) Lamp type of light source LED color of the light source red light intensity 450 1 120 mcd	inrush current maximum	0.1 A
type of light source color of the light source red light intensity 450 1 120 mcd	Connections/ Terminals	
type of light source color of the light source red light intensity 450 1 120 mcd	type of electrical connection	Socket connection (THT)
color of the light source red light intensity 450 1 120 mcd	Lamp	
color of the light source red light intensity 450 1 120 mcd	type of light source	LED
light intensity 450 1 120 mcd		red
		450 1 120 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, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)
Installation/ mounting/ dimensions	
fastening method	
 of modules and accessories 	Printed circuit board
height	8.1 mm
width	8.1 mm
depth	30.6 mm
suitability for integration	
 plastic enclosure 	No
metal enclosure	No
Certificates/ approvals	
Further information	

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3SU1401-3BA20-5AA0-Z X90

Cax online generator

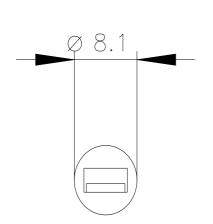
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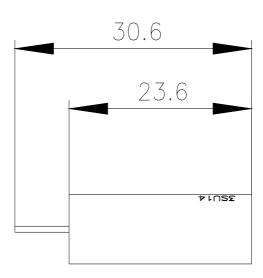
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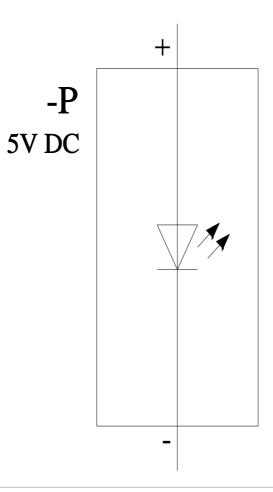
https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-3BA20-5AA0-Z X90

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-3BA20-5AA0-Z X90&lang=en







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