SIEMENS

Data sheet



LED module with integrated LED 6-24 V AC/DC, yellow, 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	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 81346-2 Substance Prohibitance (Date) operating voltage • at AC — at 50 Hz rated value — at 60 Hz ra	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 • 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 voltage • at AC — at 50 Hz rated value • at DC ra	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 consumed current maximum 30 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 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 current maximum 2 A Connections/ Terminals type of electrical connection	product component	
Ilight source Series resistor No	• diode	Yes
Series resistor insulation voltage rated value degree of pollution 32	 lamp transformer 	No
insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage of or actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 30 mA protection class IP of the enclosure of the terminal IP20 shock resistance according to IEC 60068-2-27 of or ratilway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 of or railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-B of or railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 80068-2-B of or railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 81346-2 Publistance Prohibitance (Date) operating voltage at AC at 50 Hz rated value at AC at 50 Hz rated value at C at 24 V at DC rated value at DC rated v	• light source	Yes
degree of pollution type of voltage of the operating voltage of ractuation AC/DC surge voltage resistance rated value consumed current maximum 30 mA protection class IP of the enclosure of the terminal shock resistance o according to IEC 60068-2-27 of railway applications according to EN 61373 vibration resistance o according to IEC 60068-2-6 of railway applications according to EN 61373 category 1, Class B vibration resistance o 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 Publicance Prohibitance (Date) operating voltage at AC at 60 Hz rated value at 70 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
of ractuation surge voltage resistance rated value consumed current maximum protection class IP of the enclosure of the enclosure of the terminal shock resistance oaccording to IEC 60068-2-27 of ro railway applications according to EN 61373 vibration resistance oaccording to IEC 60068-2-6 of ro railway applications according to EN 61373 vibration resistance oaccording to IEC 60068-2-6 of ro railway applications according to EN 61373 category 1, Class B vibration resistance oaccording to IEC 60068-2-6 of ro 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 oat AC — at 50 Hz rated value oat AC — at 50 Hz rated value oat AC — at 60 Hz rated value oat AC oat OC rated value oat AC oat DC rated value oat DC rated value oat Cornections of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of sthe operating voltage substance Prohibitance oat AC oat Connections/ Terminals type of electrical connection spring-loaded terminals type of electrical connection	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 for railway applications according to EN 61373 vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 category 1, Class B vibration resistance according to IEC 60068-2-6 for railway applications according to EN 61373 category 1, Class B operating period typical 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 60 Hz rated value -at 60 Hz rated value -at 00 Hz ra	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 vibration resistance according to IEC 81346-2 Departing period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage ot AC at 50 Hz rated value at AC at 50 Hz rated value ot AT Category 1, Class B 03/01/2017 03/01/2017 09reating voltage ot AC at 50 Hz rated value ot AC at 60 Mz rated value ot AC at 60 Mz rated value ot AC at 70 W relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum at AC connections/ Terminals type of electrical connection spring-loaded terminals	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 for at 50 Hz rated value at 60 Hz rated value for at 50 Hz rated value for at 50 Hz rated value for at 60 Hz rated value for at 70 Hz rated value for at 90 Hz rated value for 24 V elative 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 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 at DC rated value category 1, Class B operating voltage at AC — at 50 Hz rated value at DC rated value at DC rated value category 1, Class B operating voltage ox/01/2017 operating voltage ox/01/2017 operating voltage ox/01/2017 operating voltage ox	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	protection class IP	
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 preference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage 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 full to enerating voltage 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	 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 z 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 2 A Connections/ Terminals sinusoidal half-wave 15g / 11 ms Category 1, Class B 10 500 Hz: 5g Category 1, Class B 10 500 Hz 10 500	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	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 • 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 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 2 A Connections/ Terminals type of electrical connection 100 000 h 20 0000 h 20 00000 h 20 0000 h 20 00000 h 20 0000	 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 at 50 Hz rated value • at DC rated value • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage inrush current maximum 2 A Connections/ Terminals type of electrical connection 100 000 h P 03/01/2017	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 spring-loaded 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 relative regative 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 • at AC — at 50 Hz rated value — at 60 Hz rated value • at DC rated value • at DC rated value felative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum inrush current maximum 2 A Connections/ Terminals type of electrical connection 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 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 	Substance Prohibitance (Date)	03/01/2017
- 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 spring-loaded 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 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 6 24 V 20 % 2 A Control circuit/ Control is pring-loaded 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 spring-loaded terminals	— 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 spring-loaded terminals	at DC rated value	6 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 	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	yellow
light intensity	900 1 400 mcd
certificate of suitability	
• ATEX	No
• IECEx	No
Ambient conditions	
ambient temperature	
 during operation 	-25 +70 °C
during storage	-40 +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)
Installation/ mounting/ dimensions	
fastening method	
 of modules and accessories 	Floor mounting
height	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=3SU1401-2BG30-3AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2BG30-3AA0-Z X90 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BG30-3AA0-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=3SU1401-2BG30-3AA0-Z X90&lang=en

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