## 3SU1401-2BG00-1AA0-Z X90

**Data sheet** 



LED module with integrated LED 6-24 V AC/DC, amber, screw terminal, for floor mounting, Z=50-unit packaging

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 • for actuation  AC/DC  surge voltage resistance 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  Category 1, Class B  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 • at AC — at 50 Hz rated value — at 60 Hz rated value —	product designation	LED module
Product component   • diode   Yes   Allow transformer   No   No   No   No   No   No   No   N	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     • for actuation AC/DC surge voltage resistance rated value     • for actuation AC/DC surge voltage resistance rated value     • for the operating voltage     • of the enclosure     • of the enclosure     • of the terminal According to IEC 60068-2-27     • for rallway applications according to EN 61373 Acategory 1, Class B  vibration resistance     • according to IEC 60068-2-6     • for rallway 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 rated value     relative positive tolerance of the operating voltage     relative positive tolerance of the operating voltage     relative positive tolerance of the operating voltage  relative negative tolerance of the operating	General technical data	
• lamp transformer • light source • series resistor Insulation voltage rated value degree of pollution 3 1ype 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 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  operating period typical 100 000 h reference code according to IEC 81346-2 Pusustance Prohibitance (Date) 03/01/2017 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 positive tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage	product component	
Series resistor   No	• 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  • 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  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  • at AC  — at 50 Hz rated value — at 60 Hz rated value — at 60 Hz rated value  • at DC rated value  • at Celevation resistance  • according to IEC 81346-2  • at DC rated value  • at DC rated value  • at Celevation resistance  • according to IEC 81373  • at AC  • at DC rated value  • at DC rated	• light source	Yes
degree of pollution  type of voltage of the operating voltage  • for actuation  • for actuation  • for actuation  • for actuation  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  vibration resistance  • according to IEC 60068-2-6  • for railway applications according to EN 61373  Category 1, Class B  operating period typical  • at Control category  • at AC  — at 50 Hz rated value  • at AC  — at 50 Hz rated value  • at C C rated value  • at DC rated value  • at CC rated va	<ul> <li>series resistor</li> </ul>	No
type of voltage of the operating voltage	insulation voltage rated value	320 V
of ractuation	degree of pollution	3
surge voltage resistance rated value consumed current maximum 30 mA  protection class IP of the enclosure of the terminal IP20  shock resistance according to IEC 60068-2-27 in 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 81346-2 PSubstance Prohibitance (Date) operating period typical reference code according to IEC 81346-2 PSubstance Prohibitance (Date) operating voltage at AC —at 50 Hz rated value —at 60 Hz rated value at C actegory 1, Class B  o3/01/2017  operating voltage at AC —at 50 Hz rated value 6 24 V at C actegory 1, Class B  o3/01/2017  operating voltage at AC —at 50 Hz rated value 6 24 V at C actegory 1, Class B  o3/01/2017  operating voltage at AC —at 50 Hz rated value 6 24 V actegory 1, Class B  o3/01/2017  operating voltage at AC —at 50 Hz rated value 6 24 V actegory 1, Class B  o3/01/2017  operating voltage at AC —at 50 Hz rated value actegory 1, Class B  o3/01/2017  operating voltage at AC —at 60 Hz rated value actegory 1, Class B  o3/01/2017  operating voltage at AC —at 60 Hz rated value actegory 1, Class B  o3/01/2017  operating voltage actegory 1, Class B  objective Prohibitance (Date) o3/01/2017  operating voltage at AC —at 50 Hz rated value actegory 1, Class B  objective Prohibitance (Date) o3/01/2017  operating voltage actegory 1, Class B  objective Prohibitance (Date) o3/01/2017  operating voltage actegory 1, Class B  objective St voltage according to EC 60068-2-6  according to EC 60068-2-	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 at AC — at 50 Hz rated value — at 60 Hz rated value at DC rated valu	<ul><li>for actuation</li></ul>	AC/DC
protection class IP	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     oat AC     — at 50 Hz rated value     — at 60 Hz rated value     oat DC rated value     oat DC rated value     oat DC rated value     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     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	protection class IP	
shock resistance	<ul> <li>of the enclosure</li> </ul>	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 81373  category 1, Class B  10 500 Hz: 5g  Category 1, Class B  100 000 h  P  Category 1, Class B  100 000 h  Category 1, Class B  100 500 Hz: 5g  Category 1, Class B  100 500 Hz	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  100 000 h  100 00 h  100 000	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 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  100 500 Hz: 5g  Category 1, Class B  10 500 Hz: 5g  Category 1, Class B  100 500 Hz: 5g  Category 1, Class B  03/01/2017  03/01/20	<ul><li>according to IEC 60068-2-27</li></ul>	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     oat AC     — at 50 Hz rated value     — at 60 Hz rated value     oat DC rated value     oat 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  100 500 Hz: 5g     Category 1, Class B     100 000 h	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
• 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  inrush current maximum  2 A  Connections/ Terminals  type of electrical connection  Category 1, Class B  100 000 h  100	vibration resistance	
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 foundary elative 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  screw-type terminals	<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
reference code according to IEC 81346-2  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  relative negative tolerance of the operating voltage  control circuit/ Control  inrush current maximum  2 A  Connections/ Terminals  type of electrical connection  screw-type terminals	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
Substance Prohibitance (Date)       03/01/2017         operating voltage       6 24 V         — 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       2 A         inrush current maximum       2 A         Connections/ Terminals       screw-type 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  screw-type terminals	reference code according to IEC 81346-2	P
<ul> <li>at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>at DC rated value</li> <li>at DC rated value</li> <li>at DC rated value</li> <li>at DC rated value</li> </ul> </li> <li>relative positive tolerance of the operating voltage <ul> <li>relative negative tolerance of the operating voltage</li> </ul> </li> <li>Control circuit/ Control <ul> <li>inrush current maximum</li> <li>2 A</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>screw-type terminals</li> </ul>	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 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		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	

<ul> <li>solid with core end processing</li> </ul>	2x (0.5 0.75 mm²)
<ul> <li>solid without core end processing</li> </ul>	2x (1.0 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	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	amber
light intensity	450 1 120 mcd
certificate of suitability	
• ATEX	No
• IECEx	No
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-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	33.2 mm
width	9.8 mm
depth	29.4 mm
suitability for integration	
<ul> <li>plastic enclosure</li> </ul>	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=3SU1401-2BG00-1AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2BG00-1AA0-Z X90

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BG00-1AA0-Z X90

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3SU1401-2BG00-1AA0-Z X90&lang=en

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