## **Data sheet**

## 3SU1401-1BB30-3AA0-Z X90



LED module with integrated LED 24 V AC/DC, yellow, spring-type terminal, for front plate 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 surge voltage resistance rated value consumed current maximum protection class IP of the terminal shock resistance according to IEC 60068-2-27 of or railway applications according to EN 61373 category 1, Class B  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 or railway applications according to EN 61373 category 1, Class B  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 or railway applications according to EN 61373 category 1, Class B  vibration resistance according to IEC 81346-2 p Substance Prohibitance (Date) operating voltage 1  at AC  - at 50 Hz rated value - at 60 Hz rated value - a	product type designation	3SU1
idiode     ilamp transformer     ilight source     series 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	General technical data	
Iamp transformer   No     Iight source   Yes     series resistor   No     Insulation voltage rated value   320 V     degree of pollution   3     type of voltage of the operating voltage   AC/DC     of or actuation   AC/DC     surge voltage resistance rated value   4 kV     consumed current maximum   25 mA     protection class IP     of the enclosure   IP40     of the terminal   IP20     shock resistance     of the terminal   IP20     shock resistance     of the time according to IEC 60068-2-27   sinusoidal half-wave 15g / 11 ms     of or railway applications according to EN 61373     vibration resistance     of or railway applications according to EN 61373     operating period typical   100 500 Hz: 5g     of or railway applications according to EN 61373     operating period typical   100 500 Nb     reference code according to IEC 81346-2   P   Substance Prohibitance (Date)   03/01/2017     operating voltage 1     of at AC     at 50 Hz rated value   24 V     at 10 C rated value   24 V     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   24 V     relative positive tolerance of the operating voltage   24 V     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative positive tolerance of the operating voltage   25 %     relative	product component	
Series resistor   No	• diode	Yes
• series resistor  insulation voltage rated value  degree of pollution  320 V  degree of pollution  4 K/DC  • for actuation  Surge voltage resistance rated value  • for actuation  25 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  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  surge of value valu	<ul> <li>lamp transformer</li> </ul>	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  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  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 60 Hz rated value — at 0 Hz rated value — at 0 Hz rated value — at 0 Hz rated value  • at DC rated value	• light source	Yes
degree of pollution  type of voltage of the operating voltage  of or actuation  AC/DC  surge voltage resistance rated value  25 mA  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  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 or railway applications according to EN 61373  category 1, Class B  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 or railway applications according to EN 61373  category 1, Class B  operating period typical  actegory 1, Class B  operating voltage 1  value  at 60 Hz rated value  at C rat	<ul> <li>series resistor</li> </ul>	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     according to IEC 60068-2-27     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     ocacording to IEC 60068-2-6     of railway applications according to EN 61373     category 1, Class B     vibration resistance     ocacording 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     oat AC	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 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 of railway applications according to EN 61373  category 1, Class B  converting period typical operating period typical reference code according to IEC 81346-2  Substance Prohibitance (Date) operating voltage 1  at AC  at AC  at 50 Hz rated value 24 V  at OC 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	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 for 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 reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage 1 oat AC —at 50 Hz rated value —at 60 Hz rated value at DC rated value oat DC rated value oat DC rated value oat 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	<ul><li>for actuation</li></ul>	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  ot AC  at 50 Hz rated value at 60 Hz rated value at DC rated value at DC rated value 24 V  ot DC rated value 24 V  et at DC rated value 25 % 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	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 1     oat AC     — at 50 Hz rated value     — at 60 Hz rated value     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 inrush current maximum  2 A  Connections/ Terminals type of electrical connection  spring-loaded terminals	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         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	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 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      ze A  Connections/ Terminals type of electrical connection  south of the standard of the standard terminals  sinusoidal half-wave 15g / 11 ms Category 1, Class B  10 500 Hz: 5g Category 1, Class B  100 000 h  Peferone category 1, Class B  100 000 h  24 V  24 V  24 V  24 V  24 V  25 %  25 %  26 Connections/ Terminals  2 A  Connections/ Terminals	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      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  100	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 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  100 500 Hz: 5g  Category 1, Class B  10 500 Hz: 5g  Category 1, Class B  100 .000 h  2 4 V  9 30/01/2017  03/01	<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 1     oat 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	<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     P  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      z A  Connections/ Terminals  type of electrical connection  Category 1, Class B  100 000 h  100 000 h  2 V  P  03/01/2017  24 V  24 V  24 V  25 %  30 %  Control circuit/ Control inrush current maximum  2 A  Connections/ Terminals  type of electrical connection  spring-loaded terminals	vibration resistance	
operating period typical reference code according to IEC 81346-2  Substance Prohibitance (Date)  operating voltage 1  outline at AC  — at 50 Hz rated value — at 60 Hz rated value  outline 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  100 000 h  P  03/01/2017  24 V  24 V  24 V  24 V  25 %  30 %  Control circuit/ Control  inrush current maximum  2 A  Connections/ Terminals  type of electrical connection  spring-loaded 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 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  Connections/ Terminals  type of electrical connection  P  03/01/2017  03/01/2017  24 V  24 V  24 V  25 %  30 %  Control circuit/ Control  inrush current maximum 2 A  Connections/ Terminals	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
Substance Prohibitance (Date)  operating voltage 1  out AC	operating period typical	100 000 h
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  70 Tontrol 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
<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> </ul> </li> <li>relative positive tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>30 %</li> </ul> Control circuit/ Control <ul> <li>inrush current maximum</li> <li>2 A</li> </ul> Connections/ Terminals <ul> <li>type of electrical connection</li> <li>spring-loaded terminals</li> </ul>	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  25 %  25 %  2	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  70 Tontrol circuit/ Control inrush current maximum  2 A  Connections/ Terminals  type of electrical connection  24 V  25 %  30 %  2 A	• 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  inrush current maximum  2 A  Connections/ Terminals  type of electrical connection  spring-loaded terminals	— 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	<ul><li>— at 60 Hz rated value</li></ul>	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	25 %
inrush current maximum 2 A  Connections/ Terminals  type of electrical connection spring-loaded terminals	relative negative tolerance of the operating voltage	30 %
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	

<ul> <li>solid without core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.25 0.75 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>at AWG cables</li> </ul>	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	
<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	Front plate mounting
height	36 mm
width	9.8 mm
depth	29.4 mm
suitability for integration	
<ul> <li>plastic enclosure</li> </ul>	Yes
<ul> <li>metal enclosure</li> </ul>	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=3SU1401-1BB30-3AA0-Z X90

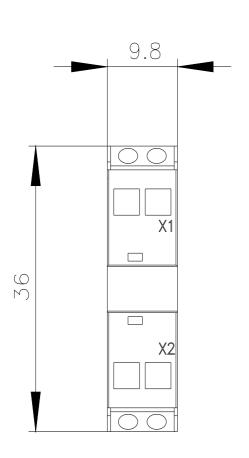
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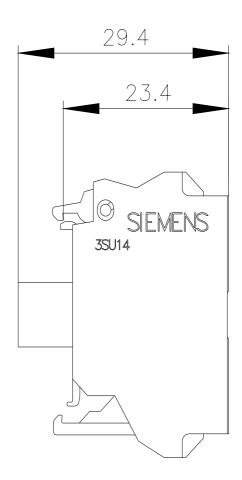
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-1BB30-3AA0-Z X90&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-1BB30-3AA0-Z X90&lang=en</a>





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