## 3SU1401-1BH20-1AA0-Z X90

**Data sheet** 



LED module with integrated LED 24-240 V AC/DC, red, screw terminal, for front plate mounting, Z=50-unit packaging

product type designation  product type designation  General technical data  product component  diode lamp transformer light source series resistor series resistor No	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 • of ractuation  AC/DC  surge voltage resistance rated value 4 kV  consumed current maximum 20 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  10 500 Hz: 5g  category 1, Class B  perating period typical reference code according to IEC 81346-2  Substance Prohibitance (Date)  operating voltage • at AC — at 50 Hz rated value — at 60 Hz rate	product designation	LED module
product component	product type designation	3SU1
idiode     ilamp transformer     ilight source     iseries resistor     No     insulation voltage rated value     degree of pollution     type of voltage of the operating voltage         in or actuation         AC/DC         insulation voltage resistance rated value         in or actuation         AC/DC         in or actuation         in	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 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 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 negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage rolative current maximum  3 A Connections/ Terminals type of electrical connection	product component	
Ight source  Series resistor  No  Insulation voltage rated value  degree of pollution  Itype of voltage of the operating voltage  For actuation  AC/DC  Surge voltage resistance rated value  Onsumed current maximum  Protection class IP  of the enclosure  of the terminal  IP20  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  according to IEC 81346-2  For railway applications according to EN 61373  vibration resistance  according to IEC 81346-2  poperating period typical  reference code according to IEC 81346-2  Pusubstance Prohibitance (Date)  operating voltage  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  connections/ Terminals type of electrical connection	• diode	Yes
Series resistor  insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  of or actuation  AC/DC  surge voltage resistance rated value  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 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 — at 60 Hz rated value  at DC rated value  at DC rated value  relative negative tolerance of the operating voltage  type of electrical connection  No  AC/DC  AC/AC	<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  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-B  • 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 — at 60 Hz rated value — at 60 Hz rated value  • at DC rated value  • at	• light source	Yes
degree of pollution  type of voltage of the operating voltage  • for actuation  AC/DC  • for actuation  AC/DC  surge voltage resistance rated value  4 kV  consumed current maximum  20 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  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 CC rate	<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  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 according to IEC 60068-2-6 for railway applications according to EN 61373  category 1, Class B  concarding to IEC 81346-2  P  Substance Prohibitance (Date) operating voltage at AC —at 50 Hz rated value —at 60 Hz rated value —at 60 Hz rated value 24 240 V at DC rated value 24 240 V at DC rated value 24 240 V at DC rated value 20 %  control circuit/ Control  inrush current maximum 3 A  Connections/ Terminals type of electrical connection  screw-type terminals	type of voltage of the operating voltage	AC/DC
consumed current maximum  protection class IP  of the enclosure of the terminal shock resistance according to IEC 60068-2-27 of ror railway applications according to EN 61373  vibration resistance according to IEC 60068-2-6 of ror railway applications according to EN 61373  vibration resistance of ror railway applications according to EN 61373  vibration resistance of ror railway applications according to EN 61373  vibration resistance of ror railway applications according to EN 61373  category 1, Class B  vibration resistance of ror railway applications according to EN 61373  category 1, Class B  vibration resistance of ror railway applications according to EN 61373  category 1, Class B  vibration resistance of ror railway applications according to EN 61373  category 1, Class B  vibration P  p  Substance Prohibitance (Date) operating voltage of AC  - at 50 Hz rated value - at 60 Hz rated value 24 240 V  - at 50 Hz rated value 24 240 V  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 3 A  Connections/ Terminals type of electrical connection screw-type 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 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  operating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage of at AC at 50 Hz rated value at DC rated value at DC rated value at DC rated value of the operating voltage relative positive tolerance of the operating voltage  control circuit/ Control inrush current maximum  3 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: 5	surge voltage resistance rated value	4 kV
of the enclosure of the terminal lP20  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 of 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 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage of at AC — at 50 Hz rated value — at 60 Hz rated value 24 240 V of at DC rated value 24 240 V relative 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 control circuit/ Control inrush current maximum 3 A  Connections/ Terminals type of electrical connection screw-type terminals	consumed current maximum	20 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         100 000 h  reference code according to IEC 81346-2         P  Substance Prohibitance (Date)         oa/01/2017  operating voltage         oat AC	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  top 0000 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 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  3 A  Connections/ Terminals  type of electrical connection  screw-type terminals  screw-type terminals	<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  sinusoidal half-wave 15g / 11 ms  Category 1, Class B  10 500 Hz: 5g  Category 1, Class B  100 000 h  P  24 2400 v  24 2400 v  24 240 v  24 240 v  25 240 v  26 240 v  27 240 v  28 240 v  29 %  Control circuit/ Control inrush current maximum  3 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  100 00	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 inrush current maximum      3 A  Connections/ Terminals type of electrical connection  Category 1, Class B  10 500 Hz: 5g  Category 1, Class B  10 500 Hz  100 00 h  100 00	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  inrush current maximum  3 A  Connections/ Terminals  type of electrical connection  100 500 Hz: 5g  Category 1, Class B  100 500 Hz: 5g  Category 1, Class B  20 000000000000000000000000000000000	<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         — at DC rated value         oat DC rated value         eat DC rated value         relative positive tolerance of the operating voltage     relative negative tolerance of the operating voltage  Control circuit/ Control     inrush current maximum         3 A  Connections/ Terminals     type of electrical connection  100 000 h  100 000	<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     • 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  3 A  Connections/ Terminals type of electrical connection  Category 1, Class B 100 000 h 100 000 h 100 000 h 100 000 h 100 0000 h 10	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  relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  inrush current maximum  3 A  Connections/ Terminals  type of electrical connection  100 000 h	<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 60 Hz rated value 24 240 V  • at DC rated value 24 240 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  3 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)  operating voltage  o at AC  — at 50 Hz rated value — at 60 Hz rated value o at DC rated value  telative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  relative negative tolerance of the operating voltage  inrush current maximum  Telative control circuit/ Control  inrush current maximum  Telative negative tolerance of the operating voltage  screw-type terminals  type of electrical connection  ■ 3 A	operating period typical	100 000 h
operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value 24 240 V  • at DC rated value 24 240 V  relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage 20 %  Control circuit/ Control inrush current maximum 3 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>24 240 V</li> </ul> </li> <li>relative positive tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>20 %</li> </ul> Control circuit/ Control <ul> <li>inrush current maximum</li> <li>3 A</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>screw-type terminals</li> </ul>	Substance Prohibitance (Date)	03/01/2017
- at 50 Hz rated value - at 60 Hz rated value  • at DC rated value 24 240 V  relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage  Control circuit/ Control inrush current maximum 3 A  Connections/ Terminals type of electrical connection screw-type terminals	operating voltage	
- at 60 Hz rated value  • at DC rated value  24 240 V  relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  Control circuit/ Control  inrush current maximum  3 A  Connections/ Terminals  type of electrical connection  24 240 V  20 %  20 %  3 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  3 A  Connections/ Terminals  type of electrical connection  24 240 V  20 %  3 A	— at 50 Hz rated value	24 240 V
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage  Control circuit/ Control inrush current maximum  3 A  Connections/ Terminals type of electrical connection  screw-type terminals	— at 60 Hz rated value	24 240 V
relative negative tolerance of the operating voltage  Control circuit/ Control inrush current maximum  3 A  Connections/ Terminals type of electrical connection screw-type terminals	at DC rated value	24 240 V
Control circuit/ Control inrush current maximum 3 A  Connections/ Terminals type of electrical connection screw-type terminals	relative positive tolerance of the operating voltage	20 %
inrush current maximum 3 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	3 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)
<ul> <li>at AWG cables</li> </ul>	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	red
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	Front plate mounting
height	33.2 mm
width	9.8 mm
depth	29.4 mm
suitability for integration	
plastic enclosure	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)
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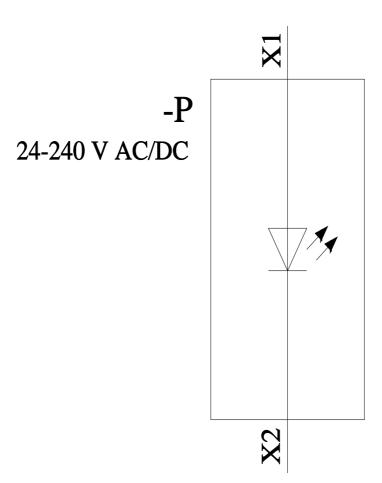
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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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">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3SU1401-1BH20-1AA0-Z X90&lang=en



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