## 3SU1401-2BH50-1AA0

**Data sheet** 



LED module with integrated LED, 24-240 V AC/DC, blue, screw terminal, for floor mounting

product type designation product type designation gonoral 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 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B  vibration resistance • according to IEC 81346-2  Publicance Prohibitance (Date)  operating voltage • at AC  — at 50 Hz rated value — at 60 Hz rated value — at	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     • for actuation     AC/DC     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 rallway applications according to EN 61373     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	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 20 mA protection class IP • of the enclosure • of the terminal P20 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 100500 Hz: 5g Category 1, Class B operating period typical 100.000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) • at AC — at 50 Hz rated value • at DC rated value relative positive tolerance of the operating voltage control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection	product component	
• light source   • series resistor   No	• diode	Yes
• series resistor  insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  • for actuation  AC/DC  surge voltage resistance rated value  • for 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  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  control circuit/ Control  inrush current maximum  3 A  Connections/ Terminals  type of electrical connection	<ul> <li>lamp transformer</li> </ul>	No
insulation voltage rated value  degree of pollution  3  type of voltage of the operating voltage  • for actuation  AC/DC  • for actuation  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  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 50 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  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  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  Pour according to IEC 81	series resistor	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  20 mA  protection class IP  of the enclosure of the terminal  shock resistance according to IEC 60068-2-27 infor 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  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 24 240 V at DC rated value 24 240 V relative positive tolerance 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  screw-type terminals	type of voltage of the operating voltage	AC/DC
consumed current maximum  protection class IP  of the enclosure of the terminal lip20  shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms 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 reference code according to IEC 81346-2 P Substance Prohibitance (Date) operating voltage of AC at 50 Hz rated value at AC at 50 Hz rated value at Crated 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	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  category 1, Class B  category 1, Class B  operating period typical for railway applications according to EN 61373  operating period typical for 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 Crated value at DC rated value at Control circuit/ Control  inrush current maximum  3 A  Connections/ Terminals type of electrical connection screw-type 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     P  Substance Prohibitance (Date)     operating voltage     at AC     — at 50 Hz rated value     — at 60 Hz rated value     at DC rated value     category 1, Class B  100 000 h  10/01/2014  24 240 V  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	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 relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage type of electrical connection  sinusoidal half-wave 15g / 11 ms Category 1, Class B  10 500 Hz: 5g Category 1, Class B  10 0 000 h  10 0 000 h  10 0 000 h  24 240 V  24 240 V  24 240 V  25 240 V  26 240 V  27 240 V  28 240 V  29 240 V  20 %  control circuit/ Control sirrush current maximum  3 A  Connections/ Terminals type of electrical connection	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 relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage  other control circuit/ Control inrush current maximum  accategory 1, Class B  10 500 Hz: 5g  Category 1, Class B  10 500 Hz  Category 1, Class B  10 500 Hz  Category 1, Class B  100 .00 h  100 00 h  1	shock resistance	
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  • 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  screw-type terminals  type of electrical connection	<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     category 1, Class B     operating period typical     reference code according to IEC 81346-2     P Substance Prohibitance (Date)     operating voltage     o at AC         — at 50 Hz rated value     — at 60 Hz rated value     o at DC rated value     o 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     screw-type terminals	<ul> <li>for railway applications according to EN 61373</li> </ul>	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             relative positive tolerance of the operating voltage             relative negative tolerance of the operating voltage             inrush current maximum	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 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  100 000 h P P 100 000 h P P 100 000 h 100	<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  • 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  10/01/2014  P  10/01/2014  P  24 240 V  24 240 V  24 240 V  20 %  Control circuit/ Control  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  • 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 regative tolerance of the operating voltage  Control circuit/ Control inrush current maximum  3 A  Connections/ Terminals type of electrical connection  screw-type terminals	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	Р
<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 <ul> <li>relative negative tolerance of the operating voltage</li> <li>20 %</li> </ul> </li> <li>Control circuit/ Control <ul> <li>inrush current maximum</li> <li>3 A</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>screw-type terminals</li> </ul>	Substance Prohibitance (Date)	10/01/2014
- at 50 Hz rated value 24 240 V end to DC rated value 24 240 V  relative positive tolerance of the operating voltage 20 %  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	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 %  3 A  Control circuit/ Control inrush current maximum  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
21	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	blue
light intensity	280 710 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	



Confirmation









**EMC** 

**Declaration of Conformity** 

**General Product Approval** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other







Confirmation

Environmental Confirmations

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

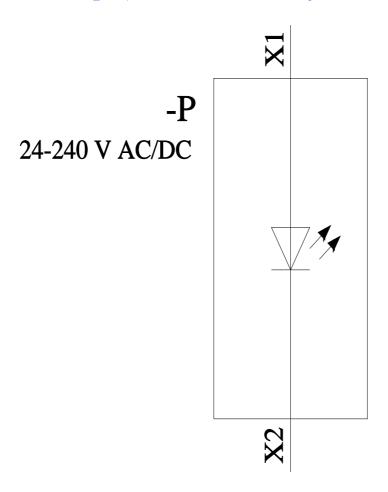
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1401-2BH50-1AA0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SU1401-2BH50-1AA0}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BH50-1AA0



last modified: 3/9/2022 🖸