## 3SU1401-1BH60-1AA0

**Data sheet** 



LED module with integrated LED, 24-240 V AC/DC, white, screw terminal, for front plate mounting  $\,$ 

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 6008-2-6 • for railway applications according to EN 61373 Category 1, Class B  vibration resistance • according to IEC 6008-2-7 • for railway applications according to EN 61373 Category 1, Class B  vibration resistance • according to IEC 6008-2-1 • for railway applications according to EN 61373 Category 1, Class B  vibration resistance • according to IEC 6008-2-6 • for railway applications according to EN 61373 Category 1, Class B  vibration resistance • according to IEC 81346-2  P Substance Prohibitance (Date)  operating voltage • at AC  — at 50 Hz rated value — at 60	product type designation	3SU1
• diode     • lamp transformer     • laight 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     • of the enclosure     • 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 value     relative positive tolerance of the operating voltage     relative negative tolerance of the operating voltage	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   20 mA     protection class IP     of the enclosure   IP40     of the terminal   IP20     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   10 500 Hz: 5g     of or railway applications according to EN 61373     operating period typical   100 000 h     reference code according to IEC 81346-2   P   Substance Prohibitance (Date)   10/01/2014     operating voltage     at AC     at 50 Hz rated value   24 240 V     at DC rated value   24 240 V     at DC rated value   24 240 V     relative positive tolerance of the operating voltage     type of electrical connection     screw-type terminals     type of electrical connection	product component	
Series resistor   No	• diode	Yes
Series resistor  Insulation voltage rated value  degree of pollution  320 V  degree of pollution  AC/DC  For actuation  AC/DC  Surge voltage resistance rated value  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 60068-6-2-6  of railway applications according to EN 61373  category 1, Class B  operating period typical  reference code according to IEC 81346-2  Substance Pohibitance (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  control circuit/ Control  inrush current maximum  3 A  Connections/ Terminals  type of electrical connection  Sussance Positive tolerance of the operating voltage  screw-type terminals  type of electrical connection  screw-type terminals  type of electrical connection  according to IEC according to IEC 81346-1  Substance Prohibitance (Date)  operating voltage  at AC  - at 50 Hz rated value  24 240 V  - at 00 Hz rated value  24 240 V  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	<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  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  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 60 Hz rated value — at 60 Hz rated value  - at 0 Hz rated value  24 240 V  • at DC rated value  100 voltage of the operating voltage  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	• light source	Yes
degree of pollution  type of voltage of the operating voltage  of or actuation  AC/DC  surge voltage resistance rated value  20 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 81346-2  Pound In	<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  20 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  vibration resistance of railway applications according to EN 61373  category 1, Class B  vibration resistance of railway applications according to EN 61373  category 1, Class B  vibration resistance of railway applications according to EN 61373  poperating 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 24 240 V —at 60 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	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 Deprating period typical reference code according to IEC 81346-2 Substance Prohibitance (Date) operating voltage at AC at 50 Hz rated value at Category 1, Class B  100 000 h  reference code according to IEC 81346-2 P Substance Prohibitance (Date) 10/01/2014 operating voltage at AC at 50 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 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 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  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 Crated value at DC rated value at DC rated value 24 240 V at DC rated value 24 240 V at DC rated value 25 240 V at DC rated value 26 240 V at DC rated value 27 240 V at DC rated value 28 240 V at DC rated value 29 240 V at DC rated value 20 %  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  Substance Prohibitance (Date)  operating voltage     oat 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  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     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 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 Category 1, Class B  10	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  output  control circuit/ Control inrush current maximum  accategory 1, Class B  10 500 Hz: 5g  Category 1, Class B  10 500 Hz  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  • 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  10 500 Hz: 5g  Category 1, Class B  100 000 h  100 0	<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     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
• 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  20 W  24 240 V  24 240 V  20 W  20 W  Control circuit/ Control inrush current maximum  3 A  Screw-type terminals	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  P  100 000 h  P  100 000 h  P  100 000 h  10	<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  ● 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  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  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 <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 - 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 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	— 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)
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	white
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	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







Environmental Confirmations Confirmation

## Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

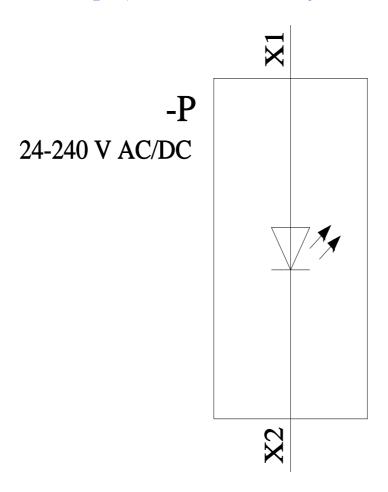
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1401-1BH60-1AA0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SU1401-1BH60-1AA0}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1BH60-1AA0



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