## **SIEMENS**

## **Data sheet**

## 3SU1401-1BH60-1AA0



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

product designation product type designation General technical data  product component	product brand name	SIRIUS ACT
General technical data           product component         Yes           • lamp transformer         No           • light source         Yes           • series resistor         No           insulation voltage rated value         320 V           degree of pollution         3           type of voltage of the operating voltage         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         IP20           shock resistance         • acc. to IEC 60068-2-7           • for railway applications acc. to DIN EN 61373         Category 1, Class B           vibration resistance         10 500 Hz: 5g           • acr. to IEC 60068-2-6         10 500 Hz: 5g           • for railway applications acc. to DIN EN 61373         Category 1, Class B           operating period typical         100 000 h           reference code acc. to IEC 81346-2         P           Substance Prohibitance (Date)         01.10.2014 00:00:00           • at AC         — at 50 Hz rated value         24 240 V           — at 60 Hz rated value         24 240 V	product designation	LED module
product component	product type designation	3SU1
• diode • lamp transformer • light source • series resistor No insulation voltage rated value 320 ∨ degree of pollution 320 ∨ type 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 shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 Vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B  operating period typical reference code acc. to IEC 81346-2 P 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 - at 00 Hz rated value -	General technical data	
light source light source series resistor No  light source series resistor No  linsulation 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 4 kV  consumed current maximum 20 mA  protection class IP of the enclosure of the terminal IP20  shock resistance acc. to IEC 60068-2-27 of or railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance e acc. to IEC 60068-2-6 of or railway applications acc. to DIN EN 61373 Category 1, Class B  vibration resistance e acc. to IEC 60068-2-6 operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date)  operating voltage e at AC  — at 50 Hz rated value — at 60 Hz rated value — 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	product component	
Ilight source	<ul><li>diode</li></ul>	Yes
Series resistor  Insulation voltage rated value  degree of pollution  3 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  acc. to IEC 60068-2-27  for railway applications acc. to DIN EN 61373  vibration resistance  acc. to IEC 60068-2-6  for railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  of ror railway applications acc. to DIN EN 61373  category 1, Class B  vibration Protection class IP  operating period typical  reference code acc. to IEC 81346-2  Publishance Prohibitance (Date)  operating voltage  ot AC  — at 50 Hz rated value  - at 60 Hz rated value  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	<ul> <li>lamp transformer</li> </ul>	No
insulation voltage rated value  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  protection class IP  of the enclosure  of the terminal  shock resistance  acc. to IEC 60068-2-27  for railway applications acc. to DIN EN 61373  vibration resistance  acc. to IEC 60068-2-6  of railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  of railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  of railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  of railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  of acc. to IEC 81346-2  of acc. to IEC 81346-2  P  Substance Prohibitance (Date)  operating voltage  of AC/DC  at AC  at 50 Hz rated value  at AC  at 60 Hz rated value  of AC/DC  at 50 Hz rated value  24 240 V  at DC rated value  et altive positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  control circuit/ Control  inrush current maximum  3 A	• light source	Yes
degree of poliution  type of voltage of the operating voltage  of ractuation  AC/DC  surge voltage resistance rated value  consumed current maximum  protection class IP  of the enclosure  of the terminal  shock resistance  o acc. to IEC 60068-2-27  of or railway applications acc. to DIN EN 61373  vibration resistance  o acc. to IEC 60068-2-6  of or railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  of railway applications acc. to DIN EN 61373  category 1, Class B  operating period typical  operating period typical  reference code acc. 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  of the operating voltage  relative positive tolerance of the operating voltage  control circuit/ Control  inrush current maximum  3 A	series resistor	No
type of voltage of the operating voltage	insulation voltage rated value	320 V
• for actuation AC/DC  surge voltage resistance rated value  consumed current maximum  protection class IP  • of the enclosure  • of the terminal  shock resistance  • acc. to IEC 60068-2-27  • for railway applications acc. to DIN EN 61373  vibration resistance  • acc. to IEC 60068-2-6  • for railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  • acc. to IEC 60068-2-6  • for railway applications acc. to DIN EN 61373  category 1, Class B  operating period typical  reference code acc. 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  • 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  AC/DC  4 kV  V  V  V  V  V  V  V  V  V  V  V  V	degree of pollution	3
surge voltage resistance rated value  consumed current maximum  protection class IP  of the enclosure of the terminal shock resistance  acc. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373  vibration resistance  acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  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 control inrush current maximum  4 kV  INV  IP40  IP	type of voltage of the operating voltage	AC/DC
consumed current maximum  protection class IP  of the enclosure of the terminal  IP20  shock resistance acc. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373  vibration resistance acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance for railway applications acc. to DIN EN 61373  category 1, Class B  operating period typical reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  operating voltage at AC  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	for actuation	AC/DC
protection class IP	surge voltage resistance rated value	4 kV
of the enclosure     of the terminal     of the terminal     shock resistance     acc. to IEC 60068-2-27     of railway applications acc. to DIN EN 61373     category 1, Class B  vibration resistance     acc. to IEC 60068-2-6     of railway applications acc. to DIN EN 61373     category 1, Class B  vibration resistance     acc. to IEC 60068-2-6     of railway applications acc. to DIN EN 61373     Category 1, Class B  operating period typical     100 000 h  reference code acc. 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     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	consumed current maximum	20 mA
of the terminal IP20  shock resistance	protection class IP	
shock resistance  acc. to IEC 60068-2-27  for railway applications acc. to DIN EN 61373  vibration resistance  acc. to IEC 60068-2-6  for railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance  acc. to IEC 60068-2-6  for railway applications acc. to DIN EN 61373  category 1, Class B  operating period typical  reference code acc. 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  inrush current maximum  3 A	<ul> <li>of the enclosure</li> </ul>	IP40
acc. to IEC 60068-2-27     of for railway applications acc. to DIN EN 61373  vibration resistance     acc. to IEC 60068-2-6     of for railway applications acc. to DIN EN 61373  category 1, Class B  vibration resistance     acc. to IEC 60068-2-6     of for railway applications acc. to DIN EN 61373  category 1, Class B  operating period typical  reference code acc. 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     relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  control circuit/ Control  inrush current maximum  Sinusoidal half-wave 50g / 11 ms  Category 1, Class B  10 500 Hz: 5g  Category 1, Class B  10 500 Hz  Cate	of the terminal	IP20
• for railway applications acc. to DIN EN 61373      vibration resistance     • acc. to IEC 60068-2-6     • for railway applications acc. to DIN EN 61373     Category 1, Class B      operating period typical     reference code acc. to IEC 81346-2     Substance Prohibitance (Date)      operating voltage     • at AC	shock resistance	
vibration resistance  • acc. to IEC 60068-2-6  • for railway applications acc. to DIN EN 61373  category 1, Class B  operating period typical  reference code acc. 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  10 500 Hz: 5g  10 500 H	• acc. to IEC 60068-2-27	Sinusoidal half-wave 50g / 11 ms
acc. to IEC 60068-2-6     for railway applications acc. to DIN EN 61373     Category 1, Class B      operating period typical     100 000 h      reference code acc. 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  100 000 h  100 000 h  101 0.2014 00:00:00  112 0.2014 00:00:00  113 0.2014 00:00:00  124 240 V  24 240 V  25 0 240 V  26 0 240 V  27 0 240 V  28 0 240 V  29 0 240 V  20 %	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B
for railway applications acc. to DIN EN 61373     category 1, Class B     operating period typical     reference code acc. 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	vibration resistance	
operating period typical  reference code acc. 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  control circuit/ Control  inrush current maximum  100 000 h  P  01.10.2014 00:00:00  24 240 V  24 240 V  24 240 V  24 240 V  29 %  Control circuit/ Control  inrush current maximum  3 A	• acc. to IEC 60068-2-6	10 500 Hz: 5g
reference code acc. 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  control circuit/ Control  inrush current maximum  3 A	<ul> <li>for railway applications acc. to DIN 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  control circuit/ Control inrush current maximum  onumber 20 240 V  20 %  Control circuit/ Control inrush current maximum  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  Control circuit/ Control inrush current maximum  3 A	reference code acc. 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 relative negative tolerance of the operating voltage 20 %  Control circuit/ Control inrush current maximum  3 A</li> </ul>	Substance Prohibitance (Date)	01.10.2014 00:00:00
- at 50 Hz rated value 24 240 V - 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	operating voltage	
<ul> <li>— at 60 Hz rated value</li> <li>● at DC rated value</li> <li>24 240 V</li> <li>relative positive tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>20 %</li> <li>Control circuit/ Control</li> <li>inrush current maximum</li> <li>3 A</li> </ul>	• 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	— at 50 Hz rated value	
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage  Control circuit/ Control inrush current maximum  3 A	— at 60 Hz rated value	_ · · · · · _ · · ·
relative negative tolerance of the operating voltage  Control circuit/ Control  inrush current maximum  3 A		24 240 V
Control circuit/ Control inrush current maximum 3 A		
inrush current maximum 3 A		20 %
	Control circuit/ Control	
Connections/ Terminals	inrush current maximum	3 A
	Connections/ Terminals	

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)	2x (0.5 0.75 mm²)		
<ul> <li>solid without core end processing</li> </ul>	2x (1.0 1.5 mm²)	2x (1.0 1.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)	2x (0.5 1.5 mm²)		
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1,0 1,5 mm²)	2x (1,0 1,5 mm²)		
at AWG cables	2x (18 14)	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	-25 +70 °C		
during storage	-40 +80 °C			
environmental category during operation acc. 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				
<ul> <li>of modules and accessories</li> </ul>	Front plate mounting			
height	33.2 mm	33.2 mm		
width	9.8 mm			
depth	29.4 mm			
Certificates/ approvals				
General Product Approval		EMC	Declaration of Conformity	













Declaration	of
Conformity	

**Test Certificates** 

Marine / Shipping







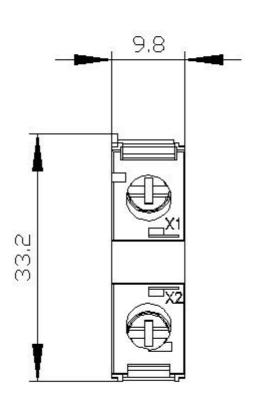
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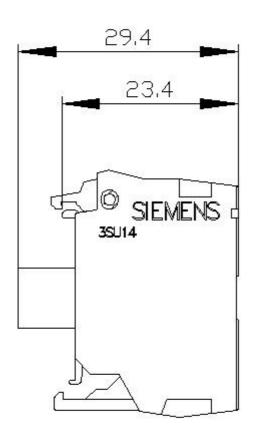
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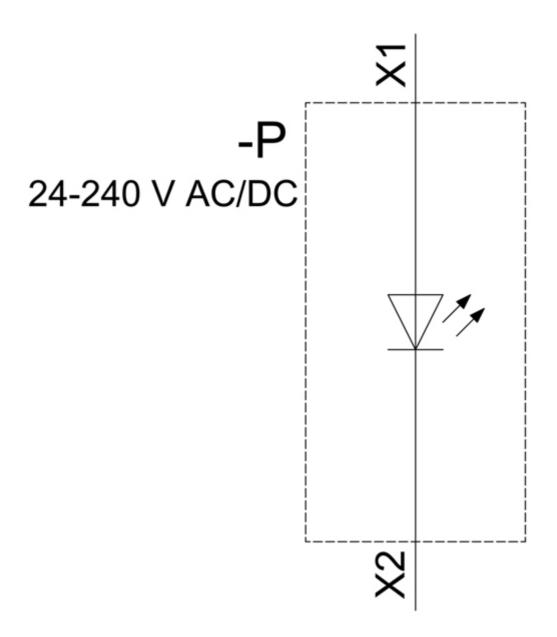




Further information







last modified: 12/21/2020 🖸