## **SIEMENS**

## **Data sheet**



LED module with integrated LED 110 V AC, blue, screw terminal, for floor mounting, Z=50-unit packaging

product type designation  general technical data  product component  • diode • lamp transformer • light source • series resistor insulation voltage rated value  degree of pollution  type of voltage of the operating voltage • for actuation  sort the enclosure • of the enclosure • of the terminal  shock resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373  product type designation  aSU1  Yes  No  Yes  No  No  320 V  degree of pollution 3  AC  AC  4 kV  consumed current maximum 20 mA  protection class IP • of the enclosure • 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		
Product component   e diode   Yes   No   Product component   e light source   Yes   Yes   Product component   Product compon	ict designation	LED module
product component      diode     diode     lamp transformer     light source     series resistor     No insulation voltage rated value     degree of pollution     type of voltage of the operating voltage	ict type designation	3SU1
<ul> <li>diode</li> <li>lamp transformer</li> <li>light source</li> <li>series resistor</li> <li>insulation voltage rated value</li> <li>320 V</li> <li>degree of pollution</li> <li>type of voltage of the operating voltage</li> <li>for actuation</li> <li>aC</li> <li>surge voltage resistance rated value</li> <li>4 kV</li> <li>consumed current maximum</li> <li>protection class IP</li> <li>of the enclosure</li> <li>of the terminal</li> <li>shock resistance</li> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>Category 1, Class B</li> </ul>	l technical data	
<ul> <li>lamp transformer</li> <li>light source</li> <li>series resistor</li> <li>insulation voltage rated value</li> <li>320 V</li> <li>degree of pollution</li> <li>3</li> <li>type of voltage of the operating voltage</li> <li>for actuation</li> <li>AC</li> <li>surge voltage resistance rated value</li> <li>4 kV</li> <li>consumed current maximum</li> <li>protection class IP</li> <li>of the enclosure</li> <li>of the terminal</li> <li>shock resistance</li> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6</li> <li>of railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>To 500 Hz: 5g</li> <li>Category 1, Class B</li> </ul>	ict component	
<ul> <li>light source</li> <li>series resistor</li> <li>insulation voltage rated value</li> <li>320 V</li> <li>degree of pollution</li> <li>type of voltage of the operating voltage</li> <li>for actuation</li> <li>aC</li> <li>surge voltage resistance rated value</li> <li>consumed current maximum</li> <li>protection class IP</li> <li>of the enclosure</li> <li>of the terminal</li> <li>e of the terminal</li> <li>lP20</li> <li>shock resistance</li> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>Category 1, Class B</li> </ul>	diode	Yes
<ul> <li>series resistor</li> <li>insulation voltage rated value</li> <li>320 V</li> <li>degree of pollution</li> <li>3</li> <li>type of voltage of the operating voltage <ul> <li>for actuation</li> <li>AC</li> </ul> </li> <li>surge voltage resistance rated value</li> <li>consumed current maximum</li> <li>20 mA</li> </ul> <li>protection class IP <ul> <li>of the enclosure</li> <li>if the terminal</li> </ul> </li> <li>shock resistance</li> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>vibration resistance</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li>	lamp transformer	No
insulation voltage rated value  degree of pollution  type of voltage of the operating voltage  of or actuation  AC  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  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	light source	Yes
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  10 500 Hz: 5g  Category 1, Class B	series resistor	No
type of voltage of the operating voltage	tion voltage rated value	320 V
<ul> <li>for actuation</li> <li>surge voltage resistance rated value</li> <li>4 kV</li> <li>consumed current maximum</li> <li>20 mA</li> <li>protection class IP</li> <li>of the enclosure</li> <li>of the terminal</li> <li>shock resistance</li> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6</li> <li>according to IEC 60068-</li></ul>	e 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 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  category 1, Class B  Category 1, Class B	f voltage of the operating voltage	AC
consumed current maximum  protection class IP  of the enclosure of the terminal IP20  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  Category 1, Class B  Category 1, Class B	for actuation	AC
protection class IP	voltage resistance rated value	4 kV
<ul> <li>of the enclosure</li> <li>of the terminal</li> <li>shock resistance</li> <li>according to IEC 60068-2-27</li> <li>for railway applications according to EN 61373</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>10 500 Hz: 5g</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> </ul>	med current maximum	20 mA
● of the terminal IP20  shock resistance  ● according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms  ● for railway applications according to EN 61373 Category 1, Class B  vibration resistance  ● according to IEC 60068-2-6 10 500 Hz: 5g  ● for railway applications according to EN 61373 Category 1, Class B	tion class IP	
shock resistance  • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms  • for railway applications according to EN 61373 Category 1, Class B  vibration resistance  • according to IEC 60068-2-6 10 500 Hz: 5g  • for railway applications according to EN 61373 Category 1, Class B	of the enclosure	IP40
<ul> <li>according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms</li> <li>for railway applications according to EN 61373 Category 1, Class B</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6 10 500 Hz: 5g</li> <li>for railway applications according to EN 61373 Category 1, Class B</li> </ul>	of the terminal	IP20
<ul> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> <li>vibration resistance</li> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> </ul>	resistance	
vibration resistance         ● according to IEC 60068-2-6       10 500 Hz: 5g         ● for railway applications according to EN 61373       Category 1, Class B	according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
<ul> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> </ul>	for railway applications according to EN 61373	Category 1, Class B
• for railway applications according to EN 61373 Category 1, Class B	ion resistance	
	according to IEC 60068-2-6	10 500 Hz: 5g
operating period typical 100 000 h	for railway applications according to EN 61373	Category 1, Class B
	ting period typical	100 000 h
reference code according to IEC 81346-2	nce code according to IEC 81346-2	P
Substance Prohibitance (Date) 03/01/2017	ance Prohibitance (Date)	03/01/2017
operating voltage 1	ting voltage 1	
• at AC	at AC	
— at 50 Hz rated value 110 V	— at 50 Hz rated value	110 V
— at 60 Hz rated value 110 V		
relative positive tolerance of the operating voltage 20 %		
relative negative tolerance of the operating voltage 20 %		20 %
Control circuit/ Control	circuit/ Control	
inrush current maximum 3 A	n current maximum	3 A
Connections/ Terminals	ctions/ Terminals	
type of electrical connection screw-type terminals	of electrical connection	screw-type terminals
type of connectable conductor cross-sections	of connectable conductor cross-sections	
• solid with core end processing 2x (0.5 0.75 mm²)	solid with core end processing	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	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	
<ul> <li>of modules and accessories</li> </ul>	Floor mounting
height	33.2 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=3SU1401-2BC50-1AA0-Z X90

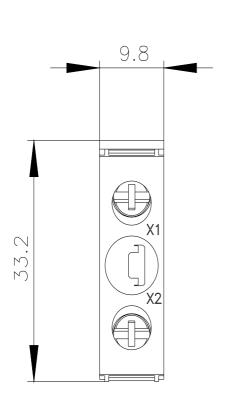
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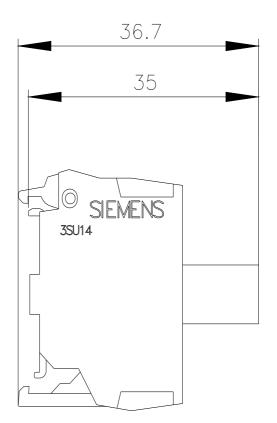
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BC50-1AA0-Z X90

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-2BC50-1AA0-Z X90&lang=en





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