## **SIEMENS**

## **Data sheet**



LED module with integrated LED 6-24 V AC/DC, amber, spring-type terminal, for floor mounting, Z=50-unit packaging

product type designation general technical data  product component	product brand name	SIRIUS ACT
General technical data  product component  • diode • lamp transformer • light source • 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  4 kV  consumed current maximum  protection class IP • of the enclosure • 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  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  P  Substance Prohibitance (Date)  • at AC — at 50 Hz rated value — at 60 Hz rated value — a	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 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 60 Hz rated value  • at DC rated value	product type designation	3SU1
• diode     • lamp transformer     • lamp transformer     • lamp transformer     • light source     • series resistor     No  insulation voltage rated value     320 V  degree of pollutulon     3     Type of voltage of the operating voltage     • for actuation     AC/DC  surge voltage resistance rated value     consumed current maximum     7     of the enclosure     • of the enclosure     • of the enclosure     • 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 voltage     • at AC     — at 50 Hz rated value     • at DC rated value     relative negative tolerance of the operating voltage     relative negative	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 consumed current maximum 30 mA protection class IP • of the enclosure • 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	product component	
● series resistor No Insulation voltage rated value  degree of pollution 3 type of voltage of the operating voltage	<ul><li>diode</li></ul>	Yes
• series resistor  insulation voltage rated value  degree of pollution  type of voltage of the operating voltage	<ul> <li>lamp transformer</li> </ul>	No
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  30 mA  protection class IP  of the enclosure  of the terminal  IP20  shock resistance  according to IEC 60068-2-27  of ratilway 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-B  of or railway applications according to EN 61373  Category 1, Class B  vibration resistance  according to IEC 80068-2-B  of or railway applications according to EN 61373  Category 1, Class B  operating period typical  100 000 h  reference code according to IEC 81346-2  Publistance Prohibitance (Date)  operating voltage  at AC  at 50 Hz rated value  at AC  at 50 Hz rated value  at DC rated value	• 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  30 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  Publicance 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	<ul> <li>series resistor</li> </ul>	No
type of voltage of the operating voltage	insulation voltage rated value	320 V
• for actuation     surge voltage resistance rated value     consumed current maximum     30 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  vibration resistance     • according to IEC 60068-2-6     • for railway applications according to EN 61373  category 1, Class B  vibration resistance     • according to IEC 8038-2-6     • 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 50 Hz rated value     • at AC     — at 50 Hz rated value     • at	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 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 of railway applications according to EN 61373  category 1, Class B  vibration resistance of railway applications according to EN 61373  category 1, Class B  category 1, Class B  operating period typical reference code according to IEC 81346-2  Substance Prohibitance (Date) operating voltage of AC - at 50 Hz rated value - at 60 Hz rated value of 24 V of at DC rated value felative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum  2 A  Connections/ Terminals type of electrical connection  spring-loaded terminals	type of voltage of the operating voltage	AC/DC
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 of 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 v	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  operating period typical reference code according to IEC 81346-2  Substance Prohibitance (Date) operating voltage at AC  at 50 Hz rated value at 6 24 V at 50 Hz rated value at Corated value at DC rated value at DC rat	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     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 negat	consumed current maximum	30 mA
of the terminal     shock resistance	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 50 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  control circuit/ Control inrush current maximum  a category 1, Class B  10 500 Hz: 5g  Category 1, Class B  100 000 h  P  03/01/2017  P  03/01/2017  6 24 V  6 24 V  6 24 V  7 elative positive tolerance of the operating voltage  20 %  Control circuit/ Control inrush current maximum  2 A  Connections/ Terminals type of electrical connection  spring-loaded terminals	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  control circuit/ Control inrush current maximum      z A  Connections/ Terminals type of electrical connection  Category 1, Class B  10 500 Hz: 5g  Category 1, Class B  100 000 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 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  2 A  Connections/ Terminals  type of electrical connection  spring-loaded terminals  spring-loaded terminals	<ul><li>according to IEC 60068-2-27</li></ul>	sinusoidal half-wave 15g / 11 ms
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  according to IEC 60068-2-6  10 500 Hz: 5g  Category 1, Class B  100 000 h  P  03/01/2017  03/01/20	<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     P Substance Prohibitance (Date)     operating voltage         oat AC             — at 50 Hz rated value             — at 0 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	vibration resistance	
operating period typical reference code according to IEC 81346-2  Substance Prohibitance (Date)  operating voltage  • at AC  — at 50 Hz rated value       6 24 V  — at 60 Hz rated value       6 24 V  relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  inrush current maximum  Z A  Connections/ Terminals  type of electrical connection  100 000 h  P  100 000 h  P  03/01/2017	<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  foundative 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  2 A  Connections/ Terminals  type of electrical connection  spring-loaded 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  • 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  2 A  Connections/ Terminals  type of electrical connection  spring-loaded terminals	operating period typical	100 000 h
operating voltage  • at AC  — at 50 Hz rated value  — at 60 Hz rated value  • at DC rated value  • at DC rated value  felative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  control circuit/ Control  inrush current maximum  2 A  Connections/ Terminals  type of electrical connection  spring-loaded 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>at DC rated value</li> <li>at DC rated value</li> </ul> </li> <li>relative positive tolerance of the operating voltage <ul> <li>relative negative tolerance of the operating voltage</li> </ul> </li> <li>Control circuit/ Control <ul> <li>inrush current maximum</li> <li>2 A</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>spring-loaded terminals</li> </ul>	Substance Prohibitance (Date)	03/01/2017
- at 50 Hz rated value 6 24 V - at 60 Hz rated value 6 24 V  • at DC rated value 6 24 V  relative positive tolerance of the operating voltage 20 %  relative negative tolerance of the operating voltage 20 %  Control circuit/ Control  inrush current maximum 2 A  Connections/ Terminals  type of electrical connection spring-loaded terminals	operating voltage	
- at 60 Hz rated value 6 24 V  • at DC rated value 6 24 V  relative positive tolerance of the operating voltage 20 %  relative negative tolerance of the operating voltage 20 %  Control circuit/ Control  inrush current maximum 2 A  Connections/ Terminals  type of electrical connection spring-loaded terminals	• at AC	
● at DC rated value 6 24 V  relative positive tolerance of the operating voltage 20 %  relative negative tolerance of the operating voltage 20 %  Control circuit/ Control  inrush current maximum 2 A  Connections/ Terminals  type of electrical connection spring-loaded terminals	— at 50 Hz rated value	6 24 V
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage  Control circuit/ Control inrush current maximum  2 A  Connections/ Terminals type of electrical connection  spring-loaded terminals	— at 60 Hz rated value	6 24 V
relative negative tolerance of the operating voltage  Control circuit/ Control  inrush current maximum  2 A  Connections/ Terminals  type of electrical connection  spring-loaded terminals	at DC rated value	6 24 V
Control circuit/ Control inrush current maximum 2 A Connections/ Terminals type of electrical connection spring-loaded terminals		20 %
inrush current maximum 2 A  Connections/ Terminals  type of electrical connection spring-loaded terminals	relative negative tolerance of the operating voltage	20 %
Connections/ Terminals type of electrical connection spring-loaded terminals	Control circuit/ Control	
type of electrical connection spring-loaded terminals	inrush current maximum	2 A
	Connections/ Terminals	
type of connectable conductor cross-sections	type of electrical connection	spring-loaded terminals
	type of connectable conductor cross-sections	

<ul> <li>solid without core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.25 0.75 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>at AWG cables</li> </ul>	2x (24 16)
Lamp	
type of light source	LED
color of the light source	amber
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	Floor mounting
height	36 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=3SU1401-2BG00-3AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2BG00-3AA0-Z X90

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BG00-3AA0-Z X90

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-2BG00-3AA0-Z X90&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-2BG00-3AA0-Z X90&lang=en</a>

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