## **SIEMENS**

## **Data sheet**



LED module with integrated LED 24-240 V AC/DC, red, 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 • of or actuation  protection class IP • of the enclosure • of the enclosure • a coording 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 60088-2-6 • for railway applications according to EN 61373  Category 1, Class B  vibration resistance • according to IEC 81346-2  P Substance Prohibitance (Date)  • at AC — at 50 Hz rated value — at 60 Hz rated value  relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  relative negative tolerance of the operating voltage  connections/ Terminals  type of electrical connection  yes  Yes  Yes  A/DC  Ac/DC  Suma  Ac/DC  Ac/Ac/DC  Ac/Ac/Ac/Ac  Ac/Ac/DC  Ac/Ac/C  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 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  P Substance Prohibitance (Date)  operating voltage • at AC  — at 50 Hz rated value — at 60 Hz rated value — a	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     • for actuation     AC/DC surge voltage resistance rated value     • for the operating voltage     • 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     actorned in voltage     relative positive tolerance of the operating voltage     relative positive tolerance of the operating voltage     relative negative tolerance of the operating voltage     relative negative tolerance of the operating voltage     relative positive tolerance of the operating voltage     relative negative tolerance of t	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 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 vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 operating period typical 100 000 h reference code according to IEC 81346-2 Substance Prohibitance (Date) 03/01/2017 operating voltage • at AC — at 50 Hz rated value • at DC rated value relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage	product component	
Series resistor   No	• diode	Yes
Series resistor  insulation voltage rated value  degree of pollution  320 V  AC/DC  **Port ook of the operating voltage  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  **Of or railway applications according to EN 61373  **Vibration resistance  **according to IEC 60068-2-6  **Of or railway applications according to EN 61373  **Operating period typical  operating period typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  operating voltage  **at AC  **at SO Hz rated value  **at AC  **at SO Hz rated va	<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  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  Substance Prohibitance (Date)  operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value — at 60 Hz rated value  24 240 V  • at DC rated value  10 %  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  • 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  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  • 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 60 Hz rated value  • at DC rated value  •	<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  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 according to IEC 60068-2-6 for railway applications according to EN 61373  category 1, Class B  category 1, Class B  category 1, Class B  category 1, Class B  conerating 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 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  spring-loaded 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 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 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 category 1, Class B  vibration resistance of according to IEC 81346-2 P Substance Prohibitance (Date) of proving vibrations of according to EN 61373 category 1, Class B  vibration resistance of according to IEC 81346-2 P Substance Prohibitance (Date) of one of the According to EN 61373 category 1, Class B  vibration resistance of according to EN 61373 category 1, Class B  vibration resistance of one value of one value of one value of according to EN 61373 category 1, Class B  vibration resistance of one value o	<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  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 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 relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 3 A  Connections/ Terminals type of electrical connection spring-loaded 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 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  control circuit/ Control     inrush current maximum  3 A  Connections/ Terminals type of electrical connection  spring-loaded terminals  spring-loaded 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 type of electrical connection  spring-loaded terminals type of electrical connection  spring-loaded terminals  spring-loaded terminals  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 inrush current maximum      3 A  Connections/ Terminals type of electrical connection  source (Date)  10 500 Hz: 5g Category 1, Class B  10 500 Hz  100 000 h  100 00 h	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  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  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     of railway applications according to EN 61373     operating period typical     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         oat DC rated value         oat 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  spring-loaded terminals  spring-loaded 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  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  Spring-loaded terminals  type of electrical connection  Category 1, Class B  100 000 h  100	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	<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  spring-loaded terminals	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
Substance Prohibitance (Date)       03/01/2017         operating voltage       4 AC         — 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       20 %         relative negative tolerance of the operating voltage       20 %         Control circuit/ Control       3 A         inrush current maximum       3 A         Connections/ Terminals       spring-loaded 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  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>24 240 V</li> </ul> </li> <li>relative positive tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>20 %</li> </ul> Control circuit/ Control <ul> <li>inrush current maximum</li> <li>3 A</li> </ul> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>spring-loaded terminals</li>	Substance Prohibitance (Date)	03/01/2017
- 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  24 240 V  24 240 V  20 %  3 A	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  spring-loaded terminals	• 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 spring-loaded 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 spring-loaded terminals	at DC rated value	24 240 V
Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection spring-loaded terminals	relative positive tolerance of the operating voltage	20 %
inrush current maximum 3 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	3 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	red
light intensity	450 1 120 mcd
certificate of suitability	
• ATEX	No
• IECEx	No
Ambient conditions	
ambient temperature	
during operation	-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	
plastic enclosure	Yes
metal enclosure	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=3SU1401-2BH20-3AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2BH20-3AA0-Z X90 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BH20-3AA0-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=3SU1401-2BH20-3AA0-Z X90&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-2BH20-3AA0-Z X90&lang=en</a>

3/9/2022 last modified: