3SU1401-3BA20-5AA0

**Data sheet** 



LED module with integrated LED, 5 V DC, red, solder terminal, for use on printed circuit boards

product designation			
product type designation  General technical data  product component	·	SIRIUS ACT	
General technical data  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  protection class IP • of the emolosure • according to IEC 60068-2-27 • for actuary 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)  Substance Prohibitance (Date)  Substance Prohibitance (Date)  Substance Prohibitance of the operating voltage  • at DC rated value  poperating voltage 1  • at DC rated value  solve relative positive tolerance of the operating voltage  connections / Torminals type of electrical connection  Socket connection (THT)  Lamp	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  DC  surge voltage resistance rated value  0.8 kV  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 61346-2  P Substance Prohibitance (Date)  SVHC substance name  operating period typical  • at DC rated value  relative positive tolerance of the operating voltage  connections / Terminals  type of electrical connection  Socket connection (THT)  Lamp	product type designation	3SU1	
• diode     • lamp transformer     • lamp transformer     • light source     • series resistor     No  Insulation voltage rated value     30 V  degree of pollution     3  type of voltage of the operating voltage     • for actuation     DC  surge voltage resistance rated value     0.8 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  operating period typical     reference code according to IEC 81346-2     P  Substance Prohibitance (Date)  operating voltage 1     • at DC rated value     7 V  relative positive tolerance of the operating voltage  control circuit/ Control  inrus current maximum     0.1 A  Connections/ Tominals  type of electrical connection  Socket connection (THT)  Lamp	General technical data		
• lamp transformer • light source • series resistor Insulation voltage rated value 30 V degree of pollution 3 type of voltage of the operating voltage • for actuation DC surge voltage resistance rated value 0.8 kV consumed current maximum 20 mA protection class IP • of the enclosure • of the terminal shock resistance • according to IEC 60068-2-7 • 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 representations according to EN 61373 Category 1, Class B  operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 3VHC substance name 0perating voltage 1 • at DC rated value relative positive tolerance of the operating voltage Control circuit/ Control inrus current maximum 0.1 A  Connections / Terminals Vpe of electrical connection Socket connection (THT) Lamp	product component		
light source   Yes     series resistor   No     insulation voltage rated value   30 V     degree of pollution   3     type of voltage of the operating voltage   DC     for actuation   DC     surge voltage resistance rated value   0.8 kV     consumed current maximum   20 mA     protection class IP     of the enclosure   IP40     of the terminal   IP20     shock resistance     according to IEC 60068-2-77   sinusoidal half-wave 15g / 11 ms     for rallway applications according to EN 61373   Category 1, Class B     vibration resistance     according to IEC 60068-2-6   10 500 Hz: 5g     of rallway applications according to EN 61373   Category 1, Class B     vibration resistance     according to IEC 60068-2-6   10 500 Hz: 5g     operating period typical   100 000 h     reference code according to IEC 81346-2   P     Substance Prohibitance (Date)   10/01/2014     SVHC substance name   Bleimonoxid (Bleioxid) - 1317-36-8     operating voltage 1     at DC rated value   5 V     relative positive tolerance of the operating voltage   20 %     relative positive tolerance of the operating voltage   20 %     connections/ Terminals     type of electrical connection   Socket connection (THT)     Lamp	• diode	Yes	
series resistor     insulation voltage rated value     degree of pollution     3     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  • for actuation  DC  surge voltage resistance rated value  0.8 kV  consumed current maximum  protection class IP  • 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  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  • 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)  10/01/2014  SVHC substance name  bleimonoxid (Bleioxid) - 1317-36-8  operating voltage 1  • 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  0.1 A  Connections/ Terminals  type of electrical connection  Socket connection (THT)	• light source	Yes	
degree of pollution  type of voltage of the operating voltage  of cractuation  DC  surge voltage resistance rated value  consumed current maximum  protection class IP  of the enclosure  of the terminal  protection class IP  of the terminal  iP20  shock resistance  according to IEC 60068-2-27  of or 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 60068-2-6  of railway applications according to EN 61373  category 1, Class B  vibration resistance  according to IEC 81346-2  Paulo 100 000 h  reference code according to IEC 81346-2  Paulo 100 000 h  reference code according to IEC 81346-2  Paulo 100 000 h  reference code according to IEC 81346-2  perating voltage 1  at DC rated value  for value 5 V  relative positive tolerance of the operating voltage  relative negative 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  0.1 A  connections/ Terminals  type of electrical connection  Socket connection (THT)	series resistor	No	
type of voltage of the operating voltage  • for actuation  DC  surge voltage resistance rated value  0.8 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  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)  SVHC substance name  operating voltage 1  • at DC rated value  relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  control circuit/ Control  inrush current maximum  0.1 A  Connections/ Terminals  type of electrical connection  Socket connection (THT)	insulation voltage rated value	30 V	
for actuation DC     surge voltage resistance rated value	degree of pollution	3	
surge voltage resistance rated value  consumed current maximum  protection class IP  of the enclosure  of the enclosure  of the terminal  shock resistance  according to IEC 60068-2-7  for railway applications according to EN 61373  vibration resistance  according to IEC 60068-2-6  of tor 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  top 0000 h  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  operating voltage 1  at DC rated value  felative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  relative negative tolerance of the operating voltage  ontrol Circuit/ Control  inrush current maximum  0.1 A  Connections/ Terminals  type of electrical connection  Socket connection (THT)	type of voltage of the operating voltage	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 of realiway applications according to EN 61373 category 1, Class B  vibration resistance according to IEC 60068-2-6 of reraliway applications according to EN 61373 category 1, Class B  vibration resistance according to IEC 60068-2-6 of realiway applications according to EN 61373 category 1, Class B  operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 10/01/2014 SVHC substance name Bleimonoxid (Bleioxid) - 1317-36-8  operating voltage 1 of the operating voltage 20 % relative positive tolerance of the operating voltage 20 % control circuit/ Control inrush current maximum 0.1 A  Connections/ Terminals type of electrical connection Lamp	• for actuation	DC	
protection class IP	surge voltage resistance rated value	0.8 kV	
of the enclosure     of the terminal     iP20  shock resistance     according to IEC 60068-2-27     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 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     P  Substance Prohibitance (Date)  SVHC substance name     Bleimonoxid (Bleioxid) - 1317-36-8  operating voltage 1     oat DC rated value     for atleve positive tolerance of the operating voltage     relative negative tolerance of the operating voltage  control circuit/ Control  inrush current maximum     0.1 A  Connections/ Terminals  type of electrical connection     Socket connection (THT)	consumed current maximum	20 mA	
of the terminal     shock resistance         - according to IEC 60068-2-27	protection class IP		
shock resistance	• of the enclosure	IP40	
* 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     * 100 000 h  reference code according to IEC 81346-2     * Substance Prohibitance (Date)  SVHC substance name     * at DC rated value     * at DC rated value     * at DC rated value     * relative negative tolerance of the operating voltage     relative negative tolerance of the operating voltage  Control circuit/ Control  inrush current maximum     * according to IEC 81373     * Category 1, Class B  10 500 Hz: 5g  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  category 1, Class B  operating period typical 100 000 h  reference code according to IEC 81346-2  Substance Prohibitance (Date) 10/01/2014  SVHC substance name Bleimonoxid (Bleioxid) - 1317-36-8  operating voltage 1     • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage  control circuit/ Control inrush current maximum  on 1 A  connections/ Terminals type of electrical connection  Socket connection (THT)  Lamp	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)  SVHC substance name  operating voltage 1  • at DC rated value  relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  Control circuit/ Control  inrush current maximum  inrush current maximum  O.1 A  Connections/ Terminals  type of electrical connection  Socket connection (THT)	<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     Category 1, Class B  operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) SVHC substance name Bleimonoxid (Bleioxid) - 1317-36-8  operating voltage 1     oat DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum  0.1 A  Connections/ Terminals type of electrical connection Socket connection (THT)  Lamp	<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)     10/01/2014 SVHC substance name     Bleimonoxid (Bleioxid) - 1317-36-8  operating voltage 1     o 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     0.1 A  Connections/ Terminals  type of electrical connection     Socket connection (THT)  Lamp	vibration resistance		
operating period typical reference code according to IEC 81346-2 P Substance Prohibitance (Date) 10/01/2014 SVHC substance name Bleimonoxid (Bleioxid) - 1317-36-8 operating voltage 1 • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage 20 % Control circuit/ Control inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT)	<ul> <li>according to IEC 60068-2-6</li> </ul>	10 500 Hz: 5g	
reference code according to IEC 81346-2  Substance Prohibitance (Date)  10/01/2014  SVHC substance name  Bleimonoxid (Bleioxid) - 1317-36-8  operating voltage 1  • at DC rated value  5 V  relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  20 %  Control circuit/ Control  inrush current maximum  0.1 A  Connections/ Terminals  type of electrical connection  Socket connection (THT)	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B	
Substance Prohibitance (Date)  SVHC substance name  Bleimonoxid (Bleioxid) - 1317-36-8  operating voltage 1  • at DC rated value  relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  20 %  Control circuit/ Control  inrush current maximum  0.1 A  Connections/ Terminals  type of electrical connection  Socket connection (THT)	operating period typical	100 000 h	
SVHC substance name  operating voltage 1  otat DC rated value  relative positive tolerance of the operating voltage  relative negative tolerance of the operating voltage  control circuit/ Control  inrush current maximum  one of electrical connection  Socket connection (THT)  Lamp	reference code according to IEC 81346-2	Р	
operating voltage 1  • at DC rated value 5 V  relative positive tolerance of the operating voltage 20 %  relative negative tolerance of the operating voltage 20 %  Control circuit/ Control  inrush current maximum 0.1 A  Connections/ Terminals  type of electrical connection Socket connection (THT)	Substance Prohibitance (Date)	10/01/2014	
● at DC rated value 5 V  relative positive tolerance of the operating voltage 20 %  relative negative tolerance of the operating voltage 20 %  Control circuit/ Control  inrush current maximum 0.1 A  Connections/ Terminals  type of electrical connection Socket connection (THT)	SVHC substance name	Bleimonoxid (Bleioxid) - 1317-36-8	
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage  Control circuit/ Control inrush current maximum  0.1 A  Connections/ Terminals type of electrical connection  Socket connection (THT)  Lamp	operating voltage 1		
relative negative tolerance of the operating voltage  Control circuit/ Control  inrush current maximum  Connections/ Terminals  type of electrical connection  Socket connection (THT)	at DC rated value	5 V	
Control circuit/ Control inrush current maximum  Connections/ Terminals type of electrical connection  Socket connection (THT)  Lamp	relative positive tolerance of the operating voltage	20 %	
inrush current maximum 0.1 A  Connections/ Terminals  type of electrical connection Socket connection (THT)  Lamp	relative negative tolerance of the operating voltage	20 %	
Connections/ Terminals type of electrical connection Socket connection (THT)  Lamp	Control circuit/ Control		
type of electrical connection Socket connection (THT)  Lamp	inrush current maximum	0.1 A	
Lamp	Connections/ Terminals		
	type of electrical connection	Socket connection (THT)	
	Lamp		
	type of light source	LED	
color of the light source red		red	
light intensity 450 1 120 mcd		450 1 120 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 according to IEC 60721	3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)			
Environmental footprint				
Environmental Product Declaration(EPD)	Yes			
Global Warming Potential [CO2 eq] total	0.787 kg			
Global Warming Potential [CO2 eq] during manufacturing	0.566 kg			
Global Warming Potential [CO2 eq] during operation	0.235 kg			
global warming potential [CO2 eq] after end of life	-0.015 kg			
Installation/ mounting/ dimensions				
fastening method				
<ul> <li>of modules and accessories</li> </ul>	Printed circuit board			
height	8.1 mm			
width	8.1 mm			
depth	30.6 mm			
Approvals Certificates				
General Product Approval		Declaration of Conformity		



Confirmation









**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









other

Environment

Confirmation

Environmental Confirmations

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3SU1401-3BA20-5AA0

Cax online generator

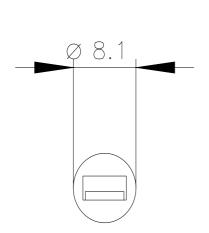
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-3BA20-5AA0

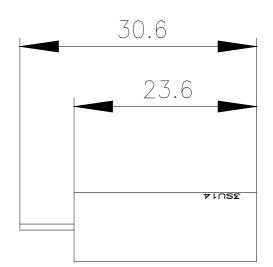
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

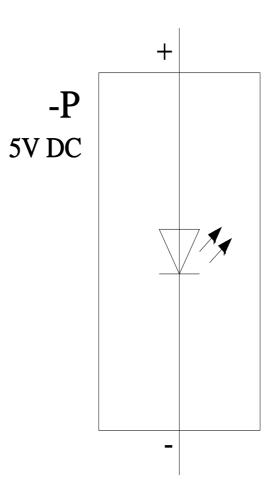
https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-3BA20-5AA0

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-3BA20-5AA0\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-3BA20-5AA0\&lang=ender.pdf} \\ \underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx.pdf} \\ \underline{\text{http://www.automation.siem$ 







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