SIEMENS

Data sheet

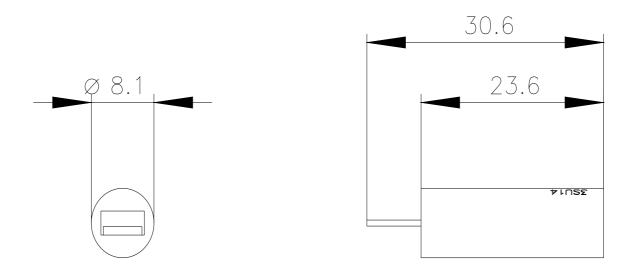
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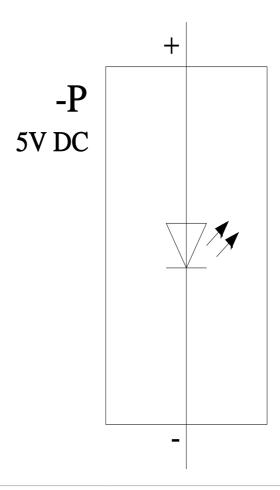


LED module with integrated LED, 5 V DC, white, solder terminal, for use on printed circuit boards

product brand name SIRUS ACT product type designation SSU1 product type designation SSU1 General technical data - ordiode Yes ordiode Yes ordiode Yes ordiode Yes ordiode Yes ordiode Yes ordiode No ordiode of the operating voltage DC for actuation DC surge voltage of the operating voltage DC of the ordinge of the operating voltage DC of the ordiosure DP of the ordiosure IPA0 of the ordiosure IPA0 of the ordiosure IPA0 of the relocure IPA0 of the ordiosure IPA0 of the relocure IPA0		
product type designation 3SU1 General technical data	product brand name	SIRIUS ACT
General technical data product component • diode Yes • lamp transformer No • light source Yes • series resistor No insulation ordinge 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 * block resistance • • according to IEC 60066-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B • of the terminal IP20 * block resistance • • according to IEC 60066-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B • of railway applications according to EN 61373 Category 1, Class B • of railway applications according to EN 61373 Category 1, Class B • of railway applications according to EN 61373 Category 1, Class B • of railway applications according to EN 61373 Category 1, Class B • of railway applications according to	product designation	LED module
product component Yes • idiode Yes • lamp transformer No • 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 IP40 • of the enclosure IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance sinusoidal half-wave 15g / 11 ms • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 00 h reference code according to EC 60068-2-6 10 500 Hz: 5g Substance Prohibitance (Date) 10/01/2014 SVHC substance name Bleimonxid (Bleioxid) - 1317-36-8 operating voltage 1 ov • at DC rated value 5 V relative positive tolerance of the operating voltage 20 % Connections 1 Terminals Socket connection (THT) Lamp ture Vivite	product type designation	3SU1
• diodeYes• lamp transformerNo• light sourceYes• light sourceYes• series resistorNoinsulation voltage rated value30 Vdegree of pollution3type of voltage of the operating voltageDC• for actuationDCsurge voltage resistance rated value0.8 kVconsumed current maximum20 mAprotection class IPIP40• of the eminalIP20• of the terminalIP20shock resistanceIP20• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistanceIn 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Bvibration resistanceIn 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B• or railway applications according to EN 61373Category 1, Class B• or railway applications according to EN 61373Category 1, Class B• for railway applications according to EN 61373Category 1, Class B• according to IEC 80346-2PSubstance Prohibitance (Date)5V• at DC rated valueSv• at DC rated valueSvrelative positive tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %Connection/ TorminalsJAConnection/ TorminalsSocket connection (THT)La	General technical data	
• lamp transformerNo• light sourceYes• series resistorNo• insulation voltage rated value30 Vdegree of pollution3type of voltage of the operating voltageDC• for actuationDCsurge voltage resistance rated value0.8 kVconsumed current maximum20 mAprotection class IPIP40• of the enclosureIP40• of the enclosureinvasicial half-wave 15g / 11 ms• of the enclosureinvasicial half-wave 15g / 11 ms• of the enclosureinvasicial half-wave 15g / 11 ms• for railway applications according to EK 60068-2.47invasicial half-wave 15g / 11 ms• for railway applications according to EK 61373Category 1, Class B• operating to IEC 60068-2.6410 500 Hz: 5g• for railway applications according to EK 61373Category 1, Class B• operating poried typical100 000 hreference code according to IEC 61346-2PSubstance Prohibitance (Date)100/1/2014• at DC rated value5 V• at DC rated value5 V• at DC rated value5 V• bitive tolerance of the operating voltage20 %Control Iteruit ControlImmuneImrush current maximum0.1 AControl Iteruit Postive tolerance of the operating voltage5 v• of a lectrical connection5 vrelative positive tolerance of the operating voltage20 %Control Iteruit Postive5 vImrush current maximum0.1	product component	
• light source Yes • series resistor No Insulation voltage reted 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 IP40 • of the enclosure IP40 • of the enclosure Category 1, Class B • of the terminal Surge voltage 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 Inc. 500 Hz: 5g • for 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) 1001/2014 SVHC substance name Bleimonoxid (Bleioxid) - 1317-36-8 operating voltage 1 5 V • at DC rated value 5 V relative negative tolerance of the operating voltage 20 % Control Currol Socket connection (THT) Lamp Up of electrical connection tore of the light source LED	• diode	Yes
Series resistor No insulation voltage rated value 30 V degree of pollution 3 (pre 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 enclosure IP20 • of the ferminal 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 operating voltage 1 - • actor cated value 5 V reference code according to IEC 81346-2 P Substance Prohibitance (Dato) <t< th=""><th>lamp transformer</th><th>No</th></t<>	lamp transformer	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	light source	Yes
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 IP40 • of the enclosure IP40 • of the enclosure IP40 • of the enclosure 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 • bor railway applications according to EN 61373 Category 1, Class B • of the loghcase according to IEC 60068-2-6 10 500 Hz: 5g • for 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) 10/01/2014 SVHC substance name Bleimonoxid (Bleioxid) - 1317-36-8 operating voltage 1 - • at DC rated value 5 V relative negative tolerance of the operating voltage 20 %	series resistor	No
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 60068-2-27 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 operating pariod typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 10/01/2014 SVHC substance name Bleimonoxid (Bleixid) - 1317-36-8 operating voltage 1 - • at DC rated value 5 V relative negative tolerance of the operating voltage 20 % control circuit/ Control - Inrush current maximum 0.1 A Connections/ Terminals	insulation voltage rated value	30 V
• for actuation DC surge voltage resistance rated value 0.8 kV consumed current maximum 20 mA protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance IP40 • of the terminal IP20 shock resistance IP20 • for railway applications according to EN 61373 Category 1, Class B vibration resistance IIII ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	degree of pollution	3
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consumed current maximum 20 mA protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance IP20 • 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 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 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) Lamp - type of light source LED voler filight source white	for actuation	DC
protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance IP20 • 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 operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 100/1/2014 SVHC substance name Bleimonoxid (Bleioxid) - 1317-36-8 operating voltage 1 - • at DC rated value 5 V 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) Lamp - - top of helefts source LED volor of the light source <th>surge voltage resistance rated value</th> <th>0.8 kV</th>	surge voltage resistance rated value	0.8 kV
• of the enclosureIP40• of the terminalIP20shock resistancesinusoidal half-wave 15g / 11 ms• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistanceCategory 1, Class B• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014Substance Prohibitance (Date)Bleimonoxid (Bleioxid) - 1317-36-8operating voltage 15 V• at DC rated value5 Vrelative negative tolerance of the operating voltage20 %Connections/ Terminals0.1 AConnections/ TerminalsSocket connection (THT)LampLEDtype of light sourceLEDwhiteSubstance (Date)	consumed 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 operating period typical 100 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 500 Hz: 5g operating period typical 00 0h 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 5 V • at DC rated value 5 V relative negative tolerance of the operating voltage 20 % control circuit/ Control 0.1 A intrush current maximum 0.1 A connections/ Terminals Vipe of electrical connection type of light source LED type of light source white	protection class IP	
shock resistance initial and the second	of the enclosure	IP40
• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance-• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014SVHC substance nameBleimonoxid (Bleioxid) - 1317-36-8operating voltage 1-• at DC rated value5 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control0.1 AConnections/ Terminals0.1 Atype of electrical connectionSocket connection (THT)LampLEDtype of light sourceLEDwhitewhite	of the terminal	IP20
• 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 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 % Control circuit// Control 0.1 A Inrush current maximum 0.1 A Connections/ Terminals Socket connection (THT) Lamp LED white	shock resistance	
vibration resistanceI• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014SVHC substance nameBleimonoxid (Bleioxid) - 1317-36-8operating voltage 15 V• at DC rated value5 Vrelative negative tolerance of the operating voltage20 %control circuit/ Control0.1 AConnections/ TerminalsSocket connection (THT)LampLEDtype of light sourceLEDvoltage 1LEDwhiteWhite	 according to IEC 60068-2-27 	sinusoidal half-wave 15g / 11 ms
• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014SVHC substance nameBleimonoxid (Bleioxid) - 1317-36-8operating voltage 1• at DC rated value• at DC rated value5 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control0.1 AConnections/ Terminalstype of electrical connectionSocket connection (THT)LampLEDtype of flight sourceLEDwhitewhite	 for railway applications according to EN 61373 	Category 1, Class B
• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014SVHC substance nameBleimonoxid (Bleioxid) - 1317-36-8operating voltage 15 V• at DC rated value5 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control0.1 AConnections/ Terminalstype of electrical connectionSocket connection (THT)Lamptype of light sourceLEDcolor of the light sourcewhite	vibration resistance	
operating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014SVHC substance nameBleimonoxid (Bleioxid) - 1317-36-8operating voltage 1• at DC rated value• at DC rated value5 Vrelative positive tolerance of the operating voltage20 %Control circuit/ Control0.1 AConnections/ TerminalsSocket connection (THT)LampLEDtype of light sourceLEDcolor of the light sourcewhite	 according to IEC 60068-2-6 	10 500 Hz: 5g
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 negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 0.1 A Connections/ Terminals Socket connection (THT) Lamp LED type of light source LED color of the light source white	 for railway applications according to EN 61373 	Category 1, Class B
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 negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 0.1 A Connections/ Terminals V type of electrical connection Socket connection (THT) Lamp LED type of light source LED color of the light source white	operating period typical	100 000 h
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 negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 0.1 A Connections/ Terminals 5 Socket connection (THT) type of electrical connection Socket connection (THT) Lamp LED color of the light source LED white Mite	reference code according to IEC 81346-2	Р
operating voltage 1 5 V • 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 0.1 A inrush current maximum 0.1 A Connections/ Terminals 5 Socket connection (THT) type of electrical connection Socket connection (THT) Lamp LED type of light source LED color of the light source white	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 0.1 A inrush current maximum 0.1 A Connections/ Terminals 5000000000000000000000000000000000000	SVHC substance name	Bleimonoxid (Bleioxid) - 1317-36-8
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relative negative tolerance of the operating voltage 20 % Control circuit/ Control 0.1 A inrush current maximum 0.1 A Connections/ Terminals 5000000000000000000000000000000000000	at DC rated value	5 V
Control circuit/ Control 0.1 A inrush current maximum 0.1 A Connections/ Terminals 5000000000000000000000000000000000000	relative positive tolerance of the operating voltage	20 %
inrush current maximum 0.1 A Connections/ Terminals type of electrical connection Socket connection (THT) Lamp type of light source LED color of the light source white	relative negative tolerance of the operating voltage	20 %
Connections/ Terminals type of electrical connection Socket connection (THT) Lamp LED type of light source LED color of the light source white	Control circuit/ Control	
type of electrical connection Socket connection (THT) Lamp LED color of the light source white	inrush current maximum	0.1 A
Lamp type of light source color of the light source white	Connections/ Terminals	
type of light source LED color of the light source white	type of electrical connection	Socket connection (THT)
type of light source LED color of the light source white	Lamp	
color of the light source white		LED
		white
light intensity 900 1 400 mcd	light intensity	900 1 400 mcd

certificate of suitabilit	tv.					
	.)					
ATEX		No				
• IECEx		No				
mbient conditions		_			_	
ambient temperature						
during operation during storage			-25 +70 °C			
during storage environmental category during operation according to IEC			+80 °C		050/	
environmental category during operation according to IEC 60721			3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)			
nvironmental footprin	t		, ,			
Environmental Product	Declaration(EPD)	Ye	3			
Global Warming Potential [CO2 eq] total		0.7	0.787 kg			
Global Warming Potential [CO2 eq] during manufacturing		acturing 0.5	66 kg			
Global Warming Potential [CO2 eq] during operation		on 0.2	35 kg			
global warming potential [CO2 eq] after end of life		-0.)15 kg			
nstallation/ mounting/	dimensions					
fastening method						
 of modules and a 	accessories	Pri	nted circuit board			
height		8.1	mm			
width		8.1	mm			
depth		30.	6 mm			
pprovals Certificates						
General Product App	roval			Declaration of Confo	ormity	
Test Certificates		Marine / Shipping				
Test Certificates <u>Type Test Certificates</u> <u>ates/Test Report</u>	<u>Special Test Certific-</u> ate	Marine / Shipping	Lloyds Register Lirs	PRS	RINA	
Type Test Certific-		Marine / Shipping	Hoyds Register uis	PRS	RINA	
<u>Type Test Certific-</u> ates/Test Report	ate	Marine / Shipping	Hoyds Register uis	PRS	RINA	
Type Test Certific- ates/Test Report	ate Environment Environmental Con-	Marine / Shipping	Lits	PRS	RINA	
Type Test Certific- ates/Test Report	ate Environment Environmental Con-	Marine / Shipping	Lins	PRS	RINA	
Type Test Certific- ates/Test Report	ate Environment Environmental Con- firmations	ABS		PRS	RINA	
Type Test Certific- ates/Test Report other Confirmation Siemens has decided https://press.siemens.co Siemens is working o Please contact your loc EAC relevant market (c Information on the pa https://support.industry. Information- and Dow https://www.siemens.co Industry Mall (Online of	ate Environment Environmental Con- firmations to exit the Russian market om/global/en/pressrelease/ n the renewal of the currer al Siemens office on the st other than the sanctioned E. ckaging .siemens.com/cs/ww/en/vie mloadcenter (Catalogs, Bio pm/ic10 ordering system)	et (see here). (siemens-wind-down-ri ent EAC certificates. atus of validity of the E AEU member states R ew/109813875 rochures,)	Issian-business AC certification if you inte ussia or Belarus).	PFS	Deply these products to a	
Type Test Certific- ates/Test Report other Confirmation Siemens has decided https://press.siemens.cc Siemens is working o Please contact your loc EAC relevant market (cc Information on the pa https://support.industry. Information- and Dow https://www.siemens.cc Industry Mall (Online 4 https://mall.industry.sie Cax online generator http://support.automatic	ate Environment Environmental Con- firmations to exit the Russian marke om/global/en/pressrelease/ n the renewal of the curre sal Siemens office on the st tabler than the sanctioned Enckaging .siemens.com/cs/ww/en/vie mloadcenter (Catalogs, Bio om/ic10	et (see here). ABS et (see here). (siemens-wind-down-rr ent EAC certificates. atus of validity of the E AEU member states R ew/109813875 rochures,) log/product?mlfb=3SU order/default.aspx?lang	Issian-business AC certification if you inte ussia or Belarus). 1401-3BA60-5AA0		oply these products to a	





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