SIEMENS

Data sheet

3SU1401-1BB50-1AA2



LED module with integrated LED 24 V AC/DC, blue, screw terminal, for front plate mounting, ATEX Zone 1-2: Intrinsic safety

product brand name SIRIUS ACT product designation 3SU1 General technical data - oridot component - • diode Yes • lamp transformer No • light source Yes • series resistor No Insulation voltage rated value 320 V degree of pollution 3 for actuation AC/DC • for actuation AV consumed current maximum 20 mA protection class IP				
product type designation 3SU1 General technical data	product brand name	SIRIUS ACT		
General tachnical data product component • diode Yes • lamp transformer No • light source Yes • series resistor No Insulation voltage rated value 320 V degree of pollution 3 type of voltage of the operating voltage AC/DC • for actuation AC/DC • for actuation AC/DC • for actuation AC/DC • of the enclosure P30 • of the enclosure 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 • 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 SVHS substance name Bleimonoxid (Bleioxid) - 1317-36-8 operating voltage 1 - at 50 Hz rated value • at C - - at 80 Hz rated value 24 V - at 0 Crated value 24 V	product designation	LED module		
product component Yes • ladpt ransformer No • light source Yes • light source Yes • series resistor No Insulation voltage rated value 320 V degree of pollution 3 type of voltage of the operating voltage AC/DC • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 20 mA protection class IP IP30 • of the enclosure IP30 • of the enclosure IP30 • of the enclosure IP20 • shock resistance IP20 • of the terminal IP20 • for raliway applications according to EN 61373 Category 1, Class B vibration resistance In 500 Hz: 5g • for raliway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 8136-2 P Substance Prohibitance (Date) 100/01/2014 SWHC substance name Bleimonoxid (Bleioxid) - 1317-36-8 operating voltage 1 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V <th>product type designation</th> <th colspan="3">3SU1</th>	product type designation	3SU1		
• diodeYes• lamp transformerNo• light sourceYes• series resistorNoInsulation voltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DCsurge voltage resistance rated value4KVconsumed current maximum20 mAprotection class IPIP20• of the enclosureIP20• of the enclosuresinusoidal half-wave 15g / 11 ms• of the terminalIP20shock resistanceIP20• of the terminalIP20shock resistanceIP20• of the terminalIP20shock resistanceIP20• of railway applications according to EN 61373Category 1, Class Bvibration resistanceIII ms• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical10000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014SVH Substance nameBelimonoxid (Beloxid) - 1317-36-8operating voltage 124 V• at OC24 V• at OC rated value24 V• at DC rated value <th>General technical data</th> <th></th>	General technical data			
No• light sourceYes• series resistorNo• barlet ovoltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DC• for actuationAC/DC• urge voltage resistance rated value4 kVconsumed current maximum20 mAprotection class IPIP30• of the enclosureIP30• of the terminalIP20shock resistanceIP20• of the ferminalIP20shock resistanceImage of the formed of the formed of the formed of the formed of the ferminal• of or actuation s according to EN 61373Category 1, Class B• other actording to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B• operating protod typical1000 to h• reference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014• at AC-• at AC-• at AC-• at Chi La rated value24 V• at Cortated value24	product component			
• light sourceYes• series resistorNoInsulton voltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DC• for actuationAC/DCsurge voltage resistance rated value4 kVconsumed current maximum00 mAprofection class IPIP30• of the enclosureIP30• of the eterminalIP20• of the terminalCategory 1, Class B• otor adiug to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class B• borrailway applications according to EN 61373Category 1, Class B• otor ding to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B• operating ported typical100 000 h• or ference code according to EN 61373Category 1, Class B• operating voltage 1100 000 h• at ACImanoxid (Bleixid) - 1317-36-8• at AC24 V• at BO Hz rated value24 V• at BO Hz rated value24 V• at DC rated value24 V	• diode	Yes		
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degree of pollution 3 type of voltage of the operating voltage AC/DC • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 20 mA protection class IP IP30 • of the enclosure IP30 • 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 Image: Sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance Image: 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 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) Substance Prohibitance (Date) 1001/2014 SVHC substance name	series resistor	No		
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• 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 resistance10 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 AC - at 50 Hz rated value • at DC rated value24 Vcontrol circuit/ Control24 V	protection class IP			
shock resistance sinusoidal half-wave 15g / 11 ms • 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 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 50 Hz rated value • at AC - at 60 Hz rated value - at 60 Hz rated value 24 V • at DC rated value 24 V • at DC rated value 24 V • at DC rated value 24 V	of the enclosure	IP30		
• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B• for railway applications according to EN 61373Category 1, Class B• for railway applications according to EN 61373Category 1, Class B• for railway applications according to EN 61373Category 1, Class B• for railway applications according to EN 61373100 000 h• ference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014SVHC substance nameBleimonoxid (Bleioxid) - 1317-36-8• at AC at 50 Hz rated value24 V- at 60 Hz rated value24 V• at DC rated value24 V• at DC rated value24 V	of the terminal	IP20		
• for railway applications according to EN 61373Category 1, Class Bvibration resistance10 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 124 V• at AC24 V- at 60 Hz rated value24 V• at DC rated value10 + 1000000000000000000000000000000000	shock resistance			
vibration resistance10 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 AC - at 50 Hz rated value24 V- at 60 Hz rated value24 Vcontrol circuit/ Control24 Vcontrol circuit/ Control2A	 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 AC24 V- at 50 Hz rated value24 V- at 60 Hz rated value24 V• at DC rated value10• at DC rated value10• at DC rated value10• at DC rated value10• at DC rated value10<	 for railway applications according to EN 61373 	Category 1, Class B		
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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 50 Hz rated value - at 50 Hz rated value 24 V - at 60 Hz rated value 24 V • at DC rated value 24 V	 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	operating period typical	100 000 h		
SVHC substance name Bleimonoxid (Bleioxid) - 1317-36-8 operating voltage 1	reference code according to IEC 81346-2	P		
operating voltage 1	Substance Prohibitance (Date)	10/01/2014		
	SVHC substance name	Bleimonoxid (Bleioxid) - 1317-36-8		
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at 60 Hz rated value 24 V • at DC rated value 24 V Control circuit/ Control 24 V inrush current maximum 2 A	• at AC			
• at DC rated value 24 V Control circuit/ Control inrush current maximum 2 A	— at 50 Hz rated value	24 V		
Control circuit/ Control inrush current maximum 2 A	— at 60 Hz rated value	24 V		
inrush current maximum 2 A	at DC rated value	24 V		
	Control circuit/ Control			
	inrush current maximum	2 A		
Connections/Terminals	Connections/ Terminals			
type of electrical connection screw-type terminals	type of electrical connection	screw-type terminals		
type of connectable conductor cross-sections	type of connectable conductor cross-sections			
• solid with core end processing 2x (0.5 0.75 mm ²)	 solid with core end processing 	2x (0.5 0.75 mm²)		
• solid without core end processing 2x (1.0 1.5 mm ²)	 solid without core end processing 	2x (1.0 1.5 mm²)		

 finely stranded with core end processing finely stranded without core end processing for AWG cables connectable conductor cross-section finely stranded with core end processing tightening torque with screw-type terminals Lamp type of light source color of the light source light intensity certificate of suitability ATEX IECEx for gas explosion protection for zone 1/2 explosion device group and category according to ATEX equipment protection level (EPL) according to ATEX maximum input voltage (Ui) 	2x (0.5 1.5 mm ²) 2x (1,0 1,5 mm ²) 2x (18 14) 0.5 1.5 mm ² 0.8 0.9 N·m LED blue 450 1 120 mcd Yes; BVS 18 ATEX E 030 (IEC 11:2012; ATEX-product guidel Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb 28.8 V	line 2014/34/EU)				
for AWG cables connectable conductor cross-section finely stranded with core end processing tightening torque with screw-type terminals Lamp type of light source color of the light source light intensity ertificate of suitability eATEX elecEx for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	2x (18 14) 0.5 1.5 mm ² 0.8 0.9 N·m LED blue 450 1 120 mcd Yes; BVS 18 ATEX E 030 (IEC 11:2012; ATEX-product guide Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
connectable conductor cross-section finely stranded with core end processing tightening torque with screw-type terminals Lamp type of light source color of the light source light intensity certificate of suitability • ATEX • lECEx • for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	0.5 1.5 mm ² 0.8 0.9 N·m LED blue 450 1 120 mcd Yes; BVS 18 ATEX E 030 (IEC 11:2012; ATEX-product guidel Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
tightening torque with screw-type terminals Lamp type of light source color of the light source light intensity certificate of suitability • ATEX • IECEx • for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	LED blue 450 1 120 mcd Yes; BVS 18 ATEX E 030 (IEC 11:2012; ATEX-product guide) Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
Lamp type of light source color of the light source light intensity certificate of suitability • ATEX • IECEx • for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	blue 450 1 120 mcd Yes; BVS 18 ATEX E 030 (IEC 11:2012; ATEX-product guide Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
type of light source color of the light source light intensity certificate of suitability • ATEX • IECEx • for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	blue 450 1 120 mcd Yes; BVS 18 ATEX E 030 (IEC 11:2012; ATEX-product guide Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
color of the light source light intensity certificate of suitability • ATEX • IECEx • for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	blue 450 1 120 mcd Yes; BVS 18 ATEX E 030 (IEC 11:2012; ATEX-product guide Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
light intensity certificate of suitability • ATEX • IECEx • for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	450 1 120 mcd Yes; BVS 18 ATEX E 030 (IEC 11:2012; ATEX-product guide Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
certificate of suitability • ATEX • IECEx • for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	Yes; BVS 18 ATEX E 030 (IEC 11:2012; ATEX-product guide) Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
ATEX IECEx for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	11:2012; ATEX-product guidel Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
IECEx for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	11:2012; ATEX-product guidel Yes; IECEx BVS 18.0023 (IEC 0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	line 2014/34/EU)				
for gas explosion protection for zone 1/2 explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	0:2017-12 Edition 7.0) Yes II C II 2G Ex ib IIC T4 Gb Gb	C 60079-11:2011-06 Editic	on 6.0; IEC 60079-			
explosion device group and category according to ATEX Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	II C II 2G Ex ib IIC T4 Gb Gb					
Ex-Marking according to ATEX equipment protection level (EPL) according to ATEX	II 2G Ex ib IIC T4 Gb Gb					
equipment protection level (EPL) according to ATEX	Gb					
			II 2G Ex ib IIC T4 Gb			
maximum input voltage (Ui)	28.8 V	Gb				
	28.8 V					
• at AC		28.8 V				
• at DC	28.8 V					
type of protection according to ATEX	Ex ib					
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 condensation in operation per		0 95%, no			
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	<u> </u>					
fastening method						
of modules and accessories	Front plate mounting					
height	33.2 mm					
width	9.8 mm					
depth	29.4 mm					
Approvals Certificates	20.11111					
			For use in hazard-			
General Product Approval		EMC	ous locations			
	EHC	RCM	IECEX			
For use in hazard- ous locations Declaration of Conformity	Test Certificates		Marine / Shipping			
EG-Konf. UK	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	ABS			
Marine / Shipping	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

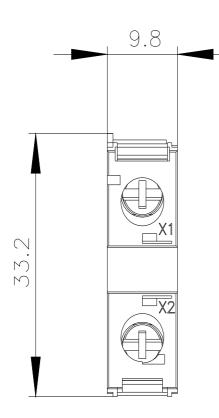
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1401-1BB50-1AA2

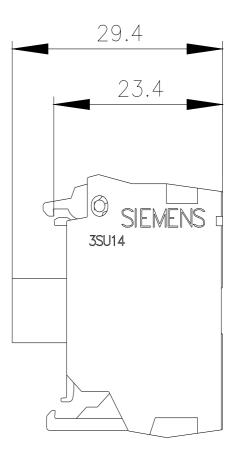
Cax online generator

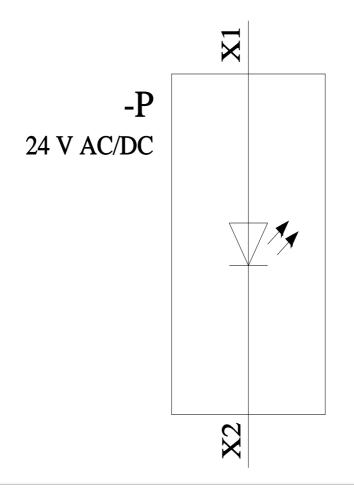
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1BB50-1AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1BB50-1AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-1BB50-1AA2&lang=en







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