## SIEMENS

## Data sheet

## 3SU1401-2BG20-1AA0



LED module with integrated LED 6-24V AC/DC red, screw terminal, for floor mounting

product designation         LED module           product type designation         3SU1           General technical data		
product type designation         3SU1           General technical dats	product brand name	SIRIUS ACT
Convert technical 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 C           surge voltage resistance rated value         4kV           consumed current maximum         30 mA           protection class IP         IP40           • of the enclosure         IP40           • of the reminal         IP20           shock resistance         sinusoidal half-wave 15g / 11 ms           • for railway applications according to EN 61373         Category 1, Class B           vibration resistance         10 500 H2: 5g           • for railway applications according to EN 61373         Category 1, Class B           substance Prohibitance (Date)         10/01/2014           Substance Prohibitance (Date)         10/01/2014           substance Prohibitance (Date)         2 64/V <td< th=""><th>product designation</th><th>LED module</th></td<>	product designation	LED module
product component     Yes       • Idode     Yes       • lamp transformer     No       • light source     Yes       • series resistor     No       Insulation voltage rated value     320 V       degree of pollution     3       1type of voltage of the operating voltage     AC/DC       • for actuation     AC/DC       • of the enclosure     IP40       • of the colosure     IP40       • of the trainal     IP20       stock resistance     IP40       • according to IEC 60068-2-6     I0       • for ralivay applications according to EN 61373     Category 1, Class B       operating period typical     100	product type designation	3SU1
• diodeYes• lamp transformerNo• light sourceSeries resistor• series resistorNoInsulation voltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DC• for actuationAC/DCsurge voltage resistance rated value4 kVconsumed current maximum30 mAprotection class IPIP40• of the enclosureIP40• of the enclosureCategory 1, Class B• for railway applications according to EN 61373Category 1, Class Bvibration resistance100 000 h• according to IEC 60068-2-410500 Hz; 5g• for railway applications according to EN 61373Category 1, Class Bvibration resistanceP• according to IEC 80068-2-4100 000 h• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)1001/2014SVHC substance name52./KeTvistori-44-isopropylidendi - 79-94-7• at AC24 V• at AC24 V<	General technical data	
I and transformerNoI light sourceYes• series resistorNoInsulation voltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DC• for actuationAC/DC• for actuationAC/DCsurge voltage resistance rated value4 KVconsumed current maximum30 mAprotection class IPIP40• of the endosureIP20• of the terminalIP20shock resistanceIP20• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• according to IEC 60068-2-27Sinusoidal half-wave 15g / 11 ms• according to IEC 60068-2-6Category 1, Class B• birrativay applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications according to EN 61373Category 1, Class B• of railway applications acco	product component	
• light sourceYes• series resistorNoInsulation voltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DC• for actuationAC/DC• for actuationAC/DC• or actuationat Vconsumed current maximum30 mAprofection class IPIP40• of the enclosureIP40• of the terminalIP20shock resistanceIP20• for ratilvay applications according to EN 61373Category 1, Class B• according to EC 60068-2-27sinusoidal half-wave 15g / 11 ms• for ratilway applications according to EN 61373Category 1, Class B• of ratilway applications according to EN 61373Category 1, Class B• operating period typical1000 nhreference code according to EN 61374Category 1, Class B• operating period typical1000 nhreference code according to EN 61374Category 1, Class B• operating period typical1000 nhreference code according to EN 61374Category 1, Class B• operating voltage2, 2, 6, 3 - Tetrabrom-4, 4-Isoptropylidend - 79-94-7• at AC at 60 Hz rated value6 24 V- at 60 Hz rated value6 24 V• at DC rated value6 24 V <th>• diode</th> <th>Yes</th>	• diode	Yes
• series resistor         No           insultion 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         30 mA           protection class IP         IP40           • of the enclosure         IP40           • of the terminal         IP20           shock resistance         -           • according to IEC 60068-2-27         sinusoidal half-wave 15g / 11 ms           • for raliway applications according to EN 61373         Category 1, Class B           vibration resistance         -           • according to IEC 60068-2-6         100500 Hz: 5g           • for raliway 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)         In/01///////////////////////////////////	<ul> <li>lamp transformer</li> </ul>	No
insulation voltage rated value         320 V           degree of pollution         3           type of voltage of the operating voltage         AC/DC           of or actuation         AC/DC           surge voltage resistance rated value         4 kV           consumed current maximum         30 mA           protection class IP         IP40           of the terminal         IP20           shock resistance         IP20           shock resistance         sinusoidal half-wave 15g / 11 ms           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         1000 00 h           reference code according to IEC 81346-2         P           Substance Prohibitance (Date)         10/01/2014           SVHC substance name         Bleimonoxid (Bleioxid) - 1317-36-8           • at AC         -         -           • at AC         -	light source	Yes
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         30 mA           protection class IP         IP40           • of the enclosure         IP40           • of the enclosure         IP40           • of the terminal         IP20           shock resistance         isinusoidal half-wave 15g / 11 ms           • for railway applications according to EN 61373         Category 1, Class B           vibration resistance         Image according to EC 60068-2-6           • 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)         1001/2014           SVHC substance name         Bleimonoxid (Bleioxid) - 1317-36-8           - at 50 Hz rated value         6 24 V           - at 60 Hz rated value         6 24 V           - at 60 Hz rated value         6 24 V           • at DC rated value         6 24 V           • at	series resistor	No
Upe of volage of the operating voltageAC/DC• for actuationAC/DCsurge voltage resistance rated value4 kVconsumed current maximum30 mAprotection class IPIP40• of the enclosureIP40• of the enclosureIP20shock 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 resistance	insulation voltage rated value	320 V
• for actuation         AC/DC           surge voltage resistance rated value         4 kV           consumed current maximum         30 mA           protection class IP         IP40           • of the enclosure         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         Image: State	degree of pollution	3
surge voltage resistance rated value         4 kV           consumed current maximum         30 mA           protection class IP         -           • of the enclosure         IP40           • 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 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           • at AC         -           • at AC         -           • at AC         -           • at OHz rated value         6 24 V           • at DC rated value<	type of voltage of the operating voltage	AC/DC
consumed current maximum30 mAprotection class IPIP40• 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 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) - 1317-36-8 2.48(htyl-1-(4-methylthiophenyl)-2.morpho - 71868-10-5 2.42(s)-68-Tetrabrom-4,4-isopropylidend i -79-94-7operating voltage • at AC6 24 V- at 50 Hz rated value6 24 V- at 60 Hz rated value6 24 V• at DC rated value6 24 V• at DC rated value20 %Telative positive tolerance of the operating voltage20 %relative positive tolerance of the operating voltage20 %control circuit/ Control2A	• for actuation	AC/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)         10/01/014           SVHC substance Internation         2////////////////////////////////////	surge voltage resistance rated value	4 kV
• of the enclosureIP40• 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 resistanceIO• according to IEC 60068-2-610• 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 (Bleixid) - 1317-36-8 2.4/6.6/-Tetrabrom-4.4/-isopropylidendi - 79-94-7operating voltage6• at AC at 50 Hz rated value6- at 60 Hz rated value6- at 60 Hz rated value6at DC rated value20%relative positive tolerance of the operating voltage20%relative positive tolerance of the operating voltage20%	consumed current maximum	30 mA
• of the terminalIP20shock resistancesinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance10500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical10500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical10000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014SVHC substance nameBleimonoxid (Bleioxid) - 1317-36-8 - 2.16.6-Tetrabrom-4.4-isopropylideni - 79-94-7operating voltage6 24 V• at AC6 24 V- at 50 Hz rated value6 24 V• at DC rated value6 24 V• at DC rated value6 24 V• at DC rated value20 %relative positive tolerance of the operating voltage20 %control circuit/ Control20 %	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         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 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7           operating voltage         - at 50 Hz rated value         6 24 V           - at 60 Hz rated value         6 24 V         24 V           • at DC rated value         6 24 V         24 V           • at DC rated value         6 24 V         24 V           • at DC rated value         2 20 %         20 %           relative negative tolerance of the operating voltage         20 %         20 %	• 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 resistance10500 Hz: 5g• according to IEC 60068-2-610500 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) - 1317-36-8 2.4.6.6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7operating voltage • at AC - at 50 Hz rated value6 24 V- at 60 Hz rated value6 24 V• at DC rated value20 %Control Circuit/ Control20 %	of the terminal	IP20
• for railway applications according to EN 61373Category 1, Class Bvibration resistance	shock resistance	
vibration resistanceImage: constraint of the operating voltage• 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) - 1317-36-8 2.2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7operating voltage • at ACat 50 Hz rated value6 24 V-at 60 Hz rated value6 24 V• at DC rated value6 24 V• at DC rated value6 24 V• at 00 Hz rated value20 %control circuit/ Control20 %	<ul> <li>according to IEC 60068-2-27</li> </ul>	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) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 2.2's, 6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7operating voltage • at AC - at 50 Hz rated value6 24 V- at 60 Hz rated value6 24 V• at DC rated value6 24 V• at DC rated value6 24 V• at DC rated value20 %relative positive tolerance of the operating voltage20 %control circuit/ Control20 %	<ul> <li>for railway applications according to EN 61373</li> </ul>	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)10/1/2014SVHC substance nameBleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 2,2',6,6'Tetrabrom-4,4'-isopropylidendi - 79-94-7operating voltage • at AC - at 50 Hz rated value6 24 V- at 60 Hz rated value6 24 Ve at DC rated value6 24 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control20 %	vibration resistance	
operating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014SVHC substance nameBleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7operating voltage	<ul> <li>according to IEC 60068-2-6</li> </ul>	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 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7         operating voltage       -         • at AC       -         - at 50 Hz rated value       6 24 V         • at DC rated value       6 24 V         relative positive tolerance of the operating voltage       20 %         Control circuit/ Control       20 %	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
Substance Prohibitance (Date)       10/01/2014         SVHC substance name       Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7         operating voltage      24,V         • at AC       6 24 V         - at 60 Hz rated value       6 24 V         • at DC rated value       6 24 V         relative negative tolerance of the operating voltage       20 %         Control circuit/ Control       20 %	operating period typical	100 000 h
SVHC substance name       Bleimonoxid (Bleioxid) - 1317-36-8         2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5       2.2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7         operating voltage       - at AC         - 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       2 A	reference code according to IEC 81346-2	Р
2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5         operating voltage         • at AC         - at 50 Hz rated value         - at 60 Hz rated value         6 24 V         • at DC rated value         6 24 V         e at DC rated value         6 24 V         felative positive tolerance of the operating voltage         20 %         relative negative tolerance of the operating voltage         20 %         Control circuit/ Control         inrush current maximum       2 A	Substance Prohibitance (Date)	10/01/2014
• at AC         - 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 %           control circuit/ Control         20 %           inrush current maximum         2 A	SVHC substance name	2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5
at 50 Hz rated value       6 24 V         at 60 Hz rated value       6 24 V         • at DC 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       20 %         inrush current maximum       2 A	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       20 %         inrush current maximum       2 A	• 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     20 %       inrush current maximum     2 A	— at 50 Hz rated value	6 24 V
relative positive tolerance of the operating voltage       20 %         relative negative tolerance of the operating voltage       20 %         Control circuit/ Control       20 %         inrush current maximum       2 A	— at 60 Hz rated value	6 24 V
relative negative tolerance of the operating voltage     20 %       Control circuit/ Control     20 %       inrush current maximum     2 A	• at DC rated value	6 24 V
Control circuit/ Control     2 A	relative positive tolerance of the operating voltage	20 %
inrush current maximum 2 A	relative negative tolerance of the operating voltage	20 %
	Control circuit/ Control	
Connections/ Terminals	inrush current maximum	2 A
	Connections/ Terminals	
type of electrical connection screw-type terminals		screw-type terminals

tune of connectable o	anductor cross costion					
solid with core er	onductor cross-sections	,	2× (0	5 0.75 mm²)		
solid without core				0 1.5 mm²)		
2	ith core end processing			5 1.5 mm²)		
-	ithout core end processin	g		0 1,5 mm²)		
for AWG cables				3 14)		
connectable conductor end processing	cross-section finely strand	led with core	0.5	1.5 mm²		
tightening torque with s	crew-type terminals		0.8	0.9 N·m		
_amp						
type of light source			LED			
color of the light sour	ce		red			
light intensity			450	. 1 120 mcd		
certificate of suitabilit	у					
• ATEX			No			
• IECEx			No			
Ambient conditions						
ambient temperature						
<ul> <li>during operation</li> </ul>			-25	+70 °C		
<ul> <li>during storage</li> </ul>			-40	+80 °C		
environmental category during operation according to IEC		3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no				
60721 Environmental footprin			Conde	ensation in operation per		
			Yes			
	duct Declaration(EPD)			ka		
Global Warming Potent			0.787	-		
	ial [CO2 eq] during manuf		0.566	-		
	ial [CO2 eq] during operation		0.235	-		
• •	al [CO2 eq] after end of life	9	-0.01	5 kg		
Installation/ mounting/	dimensions			_	_	_
fastening method						
<ul> <li>of modules and a</li> </ul>	accessories		Floor mounting			
height			33.2 mm			
width			9.8 m	m		
depth			29.4 ı	nm		
Approvals Certificates					_	
General Product App	roval				EMC	Declaration of Con- formity
	<u>Confirmation</u>	(ال س		EHC	RCM	CE EG-Konf.
Declaration of Con- formity	Test Certificates			Marine / Shipping		
UK CA	Type Test Certific- ates/Test Report	<u>Special Test Ce</u> <u>ate</u>	<u>ertific-</u>	ABS	Llovds Register urs	PRS
Marine / Shipping	other	Environment				
RINA	<u>Confirmation</u>	Environmental firmations	<u>Con-</u>			
Further information						_

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=3SU1401-2BG20-1AA0

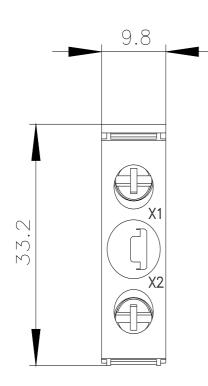
Cax online generator

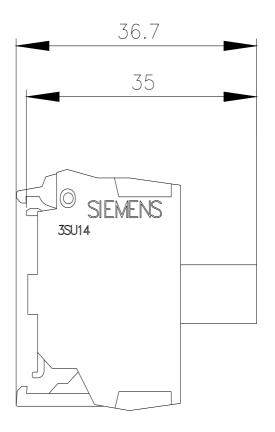
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2BG20-1AA0

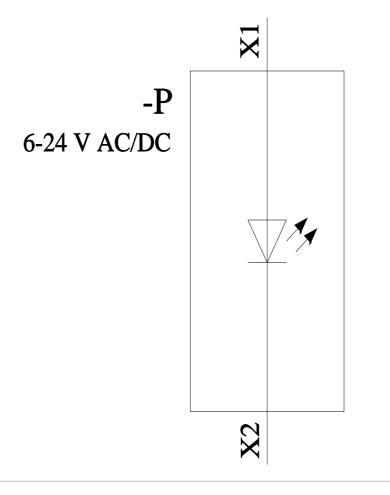
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BG20-1AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-2BG20-1AA0&lang=en







last modified:

11/9/2023 🖸