## SIEMENS

## Data sheet

## 3SU1401-2BC20-1AA0-Z X90

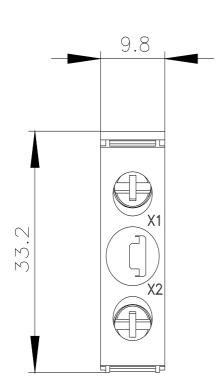


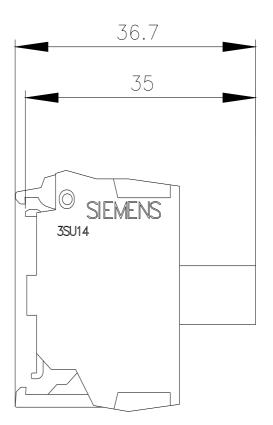
LED module with integrated LED 110 V AC, red, screw terminal, for floor mounting, Z=50-unit packaging

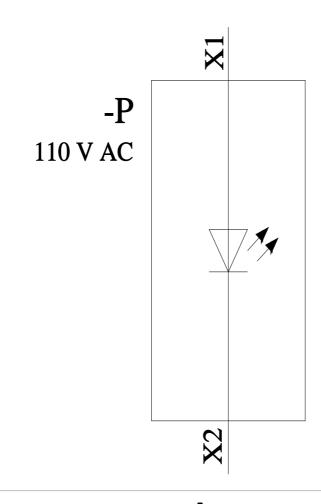
product component     Ves       • lindt ransformer     No       • light source     Yes       • light source     Yes       • series resistor     No       insulation voltage rated value     320 V       degree of pollution     3       type of voltage of the operating voltage     AC       • for actuation     AC       surge voltage resistance rated value     4 kV       consumed current maximum     20 mA       protection class IP     IP40       • of the enclosure     IP40       • of the enclosure     IP40       • of the terminal     IP20       shock resistance     IP40       • of the for railway applications according to EN 61373     Category 1, Class B       vibration resistance     Inc		
product type designation         3SU1           Concert tochnical dat         Ves           ordodc component         Yes           ordodc         Yes           i diode         Yes           i diode         Yes           i gint source         Yes           i series resistor         No           insulation voltage rated value         320 V           degree of pollution         3           type of voltage of the operating voltage         AC           of actuation         AC           surge voltage resistance rated value         20 mA           ord the enclosure         IP40           of the enclosure         IP40           of the enclosure         IP40           of the enclosure         IP20           shock resistance         Sausoidal haft-wave 15g / 11 ms           of the enclosure         IP20           of the ratilway applications according to EN 61373         Category 1, Class B           vibration resistance         Insulation Note           operating period typical         100 000 h           reference code according to EC 61068-26         P           slustance Prohibitance (Date)         0301/2017           operating period typical         100 000 h </th <th>•</th> <th></th>	•	
Seneral 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           • for actuation         AC           • for actuation         AC           • of ratuation         AC           onsumed current maximum         20 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 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)	product designation	
product component     Ves       • 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       • for actuation     AC       surge voltage resistance rated value     4 kV       consumed current maximum     20 mA       protection class IP     IP40       • of the enclosure     IP40       • of the enclosure     IP40       • of the terminal     IP20       shock resistance     IP40       • of the for railway applications according to EN 61373     Category 1, Class B       vibration resistance     Image: Since Si		3SU1
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Noinsulation voltage rated valueNoinsulation voltage rated value320 Vdegre of pollution320 Vdegre of pollution3type of voltage of the operating voltageACor actuationACsurge voltage resistance rated value4 kVconsumed current maximum20 mAprotection class IPIP40of the enclosureIP20of the terminalIP20shock resistanceIe according to IEC 60068-2-27sinusoidal half-wave 15g / 11 msof the terminalCalegory 1, Class Bvibration resistanceIe according to IEC 60068-2-6710500 Hz: 5gof railway applications according to EN 61373Calegory 1, Class Boperating to IEC 60068-2-610500 Hz: 5goperating to IEC 60068-2-620500 Hz: 5goperating voltage 110500 Hz: 5goperating voltage 110500 Hz: 6goperating voltage 110500 Hz: 6goperating voltage 110500 Hz: 6goperating voltage 110500 Hz: 6goperating voltage 12	<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           of or actuation         AC           surge voltage resistance rated value         4 kV           consumed current maximum         20 mA           protection class IP         IP40           of the enclosure         IP40           of the enclosure         IP20           stock resistance         sinusoidal half-wave 15g / 11 ms           of or railway applications according to EN 61373         Category 1, Class B           vibration resistance         -           • according to IEC 60068-2-6         10 500 Hz: 5g           operating voltage 1         100 000 h           reference code according to EN 61373         Category 1, Class B           operating voltage 1         100 000 h           reference (Date)         100 000 h           reference Code according to EN 61373         Category 1, Class B           operating voltage 1         100 000 h           • at AC         -           • at AC         -           • at AC         -           • at AC         -           • at AC         110 V           - at 60 Hz ra	light source	Yes
degree of pollution         3           type of voltage of the operating voltage         AC           • for actuation         AC           surge voltage resistance rated value         4 kV           consumed current maximum         20 mA           protection class IP         -           • of the enclosure         IP40           • of the enclosure         IP40           • of the enclosure         Category 1, Class B           • of trailway 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           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 00 h           reference code according to IEC 81346-2         P           Substance Prohibitance (Date)         03/01/2017           operating voltage 1         100 V           - at 60 Hz rated value         110 V           - at 60 Hz rated value         20 %           relative negative tolerance of the operatin	series resistor	No
Concent         AC           • for actuation         AC           surge voltage resistance rated value         4 kV           consumed current maximum         20 mA           protection class IP         -           • 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           vibration resistance         -           • according to IEC 60068-2-6         10500 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)         03/01/2017           operating voltage 1         110 V           • at AC         -           - at 60 Hz rated value         110 V           - at 60 Hz rated value         20 %           relative positive tolerance of the operating voltage         20 %	insulation voltage rated value	320 V
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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         Interview of the formal way applications according to EN 61373           • 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)         03/01/2017           operating voltage 1         110 V           - at 50 Hz rated value         110 V           - at 60 Hz rated value         20 %           relative positive tolerance of the operating voltage         20 %           control circuit/ Control         3 A	for actuation	AC
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         Interview           • according to IEC 60068-2-6         10 500 Hz: 5g           • for railway applications according to EN 61373         Category 1, Class B           vibration resistance         Interview           • 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)         03/01/2017           operating voltage 1	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 resistance• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 00 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage 1110 V- at 50 Hz rated value110 V- at 60 Hz rated value20 %relative positive tolerance of the operating voltage20 %control circuit/ Control3 A	consumed current maximum	20 mA
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• 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• operating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating voltage 1110 V• at AC at 50 Hz rated value110 V- at 60 Hz rated value20 %relative positive tolerance of the operating voltage20 %control circuit/ Control3 A	of the terminal	IP20
• for railway applications according to EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5g• 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)03/01/2017operating voltage 1110 V• at AC110 V- at 50 Hz rated value110 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control3 A	shock resistance	
vibration resistance	<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)03/01/2017operating voltage 1 • at AC - at 50 Hz rated value110 V- at 60 Hz rated value110 Vrelative positive tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %Control Circuit/ Controlinrush current maximum3 A	<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)03/01/2017operating voltage 1 • at AC at 50 Hz rated value110 V- at 60 Hz rated value110 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control3 A	vibration resistance	
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Substance Prohibitance (Date)       03/01/2017         operating voltage 1	operating period typical	100 000 h
operating voltage 1	reference code according to IEC 81346-2	P
• at AC         - at 50 Hz rated value         110 V           - at 60 Hz rated value         110 V           relative positive tolerance of the operating voltage         20 %           relative negative tolerance of the operating voltage         20 %           Control circuit/ Control         3 A	Substance Prohibitance (Date)	03/01/2017
at 50 Hz rated value     110 V       at 60 Hz rated value     110 V       relative positive tolerance of the operating voltage     20 %       relative negative tolerance of the operating voltage     20 %       Control circuit/ Control     3 A	operating voltage 1	
at 60 Hz rated value     110 V       relative positive tolerance of the operating voltage     20 %       relative negative tolerance of the operating voltage     20 %       Control circuit/ Control     3 A	• at AC	
relative positive tolerance of the operating voltage       20 %         relative negative tolerance of the operating voltage       20 %         Control circuit/ Control       3 A	— at 50 Hz rated value	110 V
relative negative tolerance of the operating voltage       20 %         Control circuit/ Control       3 A	— at 60 Hz rated value	110 V
Control circuit/ Control inrush current maximum 3A	relative positive tolerance of the operating voltage	20 %
inrush current maximum 3 A	relative negative tolerance of the operating voltage	20 %
	Control circuit/ Control	
Connections/ Terminals	inrush current maximum	3 A
	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 <sup>2</sup> )	<ul> <li>solid with core end processing</li> </ul>	2x (0.5 0.75 mm²)
• solid without core end processing 2x (1.0 1.5 mm <sup>2</sup> )	<ul> <li>solid without core end processing</li> </ul>	2x (1.0 1.5 mm²)

<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1,0 1,5 mm²)	
<ul> <li>for AWG cables</li> </ul>	2x (18 14)	
tightening torque with screw-type terminals	0.8 0.9 N·m	
Lamp		
type of light source	LED	
color of the light source	red	
light intensity	450 1 120 mcd	
certificate of suitability		
• ATEX	No	
• IECEx	No	
Ambient conditions		
ambient temperature		
during operation	-25 +70 °C	
during storage	-40 +80 °C	
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)	
Installation/ mounting/ dimensions		
fastening method		
<ul> <li>of modules and accessories</li> </ul>	Floor mounting	
height	33.2 mm	
width	9.8 mm	
depth	29.4 mm	
suitability for integration		
plastic enclosure	Yes	
metal enclosure	Yes	
Certificates/ approvals		
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)		
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Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BC20-1AA0-Z X90</u> Image database (preduct images - 2D dimension drawings - 3D models, device sireuit diagrams, EDLAN means - )		

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-2BC20-1AA0-Z X90&lang=en







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