## SIEMENS

## Data sheet

## 3SU1401-2BG60-1AA0-Z X90

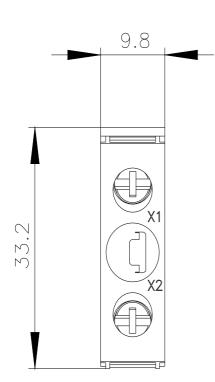


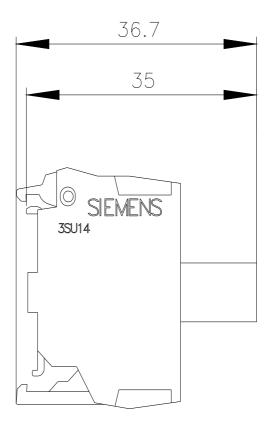
LED module with integrated LED 6-24 V AC/DC, white, screw terminal, for floor mounting, Z=50-unit packaging

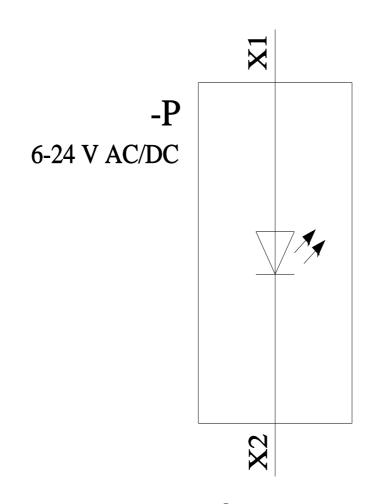
product brand name         SIRUS ACT           product disignation         LED module           product disignation         3SU1           General technical data         -           product component         -           • diode         Yes           • lamp transformer         No           • light source         Yes           • series resistor         No           insulation voltage rated value         320 V           degree of pollution         3           type of voltage of the operating voltage         AC/DC           • for actuation         AC/DC           • of ractuation         AC/DC           • of or actuation         AC/DC           • of or actuation         AC/DC           • of or actuation         AC/DC           • of the enclosure         IP40           • of the terminal         IP20           shock resistance         -           • according to IEC 60068-2-27         sinusoidal half-wave 15g / 11 ms           • according to IEC 60068-2-26         10 500 Hz: 5g           • or railway applications according to EN 61373         Category 1, Class B           operating period typical         100 woot h           • reference of according to IEC 81346-2		
product type designation         3SU1           General technical data           product component         Ves           elidode         Yes           iamp transformer         No           ilight source         Yes           is relise resistor         No           insulation voltage rated value         320 V           degree of pollution         3           type of voltage of the operating voltage         AC/DC           of ractuation         AC/DC           surge voltage resistance rated value         4 kV           consumed current maximum         30 mA           protection class IP         IP40           of the terminal         IP20           shock resistance         IP40           according to IEC 60068-2-27         Stool H2: 5g           of the terminal         IP20           shock resistance         Inumous applications according to EN 61373           operating to IEC 60068-2-6         100 -500 H2: 5g           operating period typical         100 000 h           operating period typical         100 000 h           reference code according to IEC 81346-2         P           Substance Prohibitance (Date)         624 V           operating voltage         6	product brand name	SIRIUS ACT
General technical data         product component         • diode         • lamp transformer         • light source         • series resistor         • loge of pollution         3         type of voltage resistance rated value         • of the operating voltage         • of reactuation         surge voltage resistance rated value         • of the enclosure         • of the terminal         protection class IP         • of the terminal         ison rativay applications according to EN 61373         Category 1, Class B         vibration resistance         • according to IEC 60068-2-61         • 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         10 500 Hz: 5g         • for railway applications according to EN 61376-2         Substance Prohibitance (Date)         03/01/2017         operating voltage         • at AC         - at 60 Hz: rated value         • at AC         - at 60		-
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 resistance rated value     4KV       consumed current maximum     30 mA       protection class IP     IP40       • of the enclosure     IP40       • of the enclosure     IP40       • of the enclosure     IP20       shock resistance     sinusoidal half-wave 15g / 11 ms       • according to IEC 60068-2-27     sinusoidal half-wave 15g / 11 ms       • of the enclosure     10 500 Hz: 5g       • according to IEC 60068-2-61     10 500 Hz: 5g       • according to IEC 60068-2-62     P       • according to IEC 60068-2-61     10 500 Hz: 5g       • according to IEC 61346-2     P       > Substance Prohibitance (Date)     03/01/2017       operating period typical     100 000 h       reference code according to IEC 81346-2     P       > Substance Prohibitance (Date)     03/01/2017       operating voltage     6 24 V       • at AC     6 24 V       • at AC     6 24 V       • at AC     6 24 V <td< th=""><th></th><th>3SU1</th></td<>		3SU1
• diodeYes• lamp transformerNo• lamp transformerNo• light sourceSerees resistor• seres resistorNoinsulation voltage rated value320 Vdegree of pollution3(type 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 enclosureIP40• of the enclosureIP40• for railway applications according to EN 61373Category 1, Class Bvibration resistance10500 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 period typical6 24 V• at AC6 24 V• at Crated value6 24 V• at DC rated value6 24 V• at Crated value6 24 V• at Crated value20 %relative negative tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %connections/Terminals2Atopo electrical connectionscrew-type terminals	General technical data	
• lamp transformerNo• light sourceYes• 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 enclosureIP40• of the enclosureSinusoidal 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 B• period typical100 00 hreference code according to EN 61373Category 1, Class B• period typical000 00 hreference code according to IEC 81346-2PSubstance Prohibitance (Dato)03/01/2017• at AC at 50 Hz rated value6 24 V• at DC rated value6 24 V	product component	
• 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     30 mA       protection class IP     IP40       • of the terminal     IP20       shock resistance     invalue value va	• diode	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         30 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 period typical         100 000 h           reference code according to IEC 81346-2         P           Substance Prohibitance (Date)         03/01/2017           operating voltage	<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            • 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       inusoidal 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            • according to IEC 60068-2-6       10 500 Hz: 5g            • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       03/01/2017         operating period typical       100 000 h         reference code according to IEC 81346-2       P         Substance Prohibitance (Date)       03/01/2017         operating voltage       6 24 V            • at OC       6 24 V            • at OC rated value       6 24 V            • at OC r	<ul> <li>light source</li> </ul>	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 terminal       IP20         shock resistance       isuusoidal 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         vibration resistance       03/01/2017         • 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       6 24 V         • at AC	series resistor	No
Impedive prime       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       isusoidal 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 to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B         operating period typical       10000 h         reference code according to IEC 81346-2       P         Substance Prohibitance (Date)       03/01/2017         operating voltage       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 DC rated value       6 24 V         • at DC rated value       6 24 V	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         -           • 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)         03/01/2017           operating voltage         -           • at AC         -           - at 60 Hz rated value         6 24 V           - at 60 Hz rated value         6 24 V           • at DC rated value         6 24 V           relative p	degree of pollution	3
surge voltage resistance rated value4 kVconsumed current maximum30 mAprotection class IPIP40• of the enclosureIP40• of the terminalIP20shock resistance	type of voltage of the operating voltage	AC/DC
consumed current maximum       30 mA         protection class IP       IP40         • of the enclosure       IP40         • of the terminal       IP20         shock resistance       isinusoidal 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)       03/01/2017         operating voltage       -         • at AC       -         - at 50 Hz rated value       6 24 V         • at DC rated value       20 %         relative positive tolerance of the operating voltage       20 %         relative negative tolerance of the operating voltage       20 %         relative negative tolerance of the operating voltage       20 %         control circuit/ Control       20 % <td><ul> <li>for actuation</li> </ul></td> <td>AC/DC</td>	<ul> <li>for actuation</li> </ul>	AC/DC
protection class IP       IP40         • of the enclosure       IP40         • of the terminal       IP20         shock resistance       IP20         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       -         • 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)       0301/2017         operating voltage       -         • at AC       -         - at 50 Hz rated value       6 24 V         • at DC rated value       6 24 V         • at DC rated value       6 24 V         • at DC rated value       20 %         relative nogative tolerance of the operating voltage       20 %         control circuit/ Control       20 %         inrush current maximum       2 A         connections/ Terminals       screw-type terminals	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 resistanceIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	consumed current maximum	30 mA
• 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)03/01/2017operating 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 Corrot circuit/ Control20 %relative positive tolerance of the operating voltage20 %control circuit/ Control2 Aturnsh current maximum2 Aconnections/ Terminalsscrew-type terminals	protection class IP	
shock resistance• 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)03/01/2017operating voltage03/01/2017• 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 Vcategory to learne of the operating voltage20 %control circuit/ Control20 %inrush current maximum2 AConnections/ Terminalsscrew-type terminals	<ul> <li>of the enclosure</li> </ul>	IP40
• 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)03/01/2017operating 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 %Control circuit/ Control2 Aconnections/ Terminals2 Aconnections/ Terminalsscrew-type terminals	<ul> <li>of the terminal</li> </ul>	IP20
• for railway applications according to EN 61373Category 1, Class Bvibration resistance0• 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)03/01/2017operating voltage03/01/2017• at AC6- at 50 Hz rated value6- at 60 Hz rated value6• at DC rated value6• at DC rated value20 %relative positive tolerance of the operating voltage20 %control circuit/ Control2 Aconnections/ Terminals2 A	shock resistance	
vibration resistanceI 0 500 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 voltage03/01/2017• at AC at 50 Hz rated value6 24 V- at 60 Hz rated value6 24 V• at DC rated value6 24 Vrelative positive tolerance of the operating voltage20 %Control circuit/ Control2 Ainrush current maximum2 AConnections/ Terminalsscrew-type terminals	<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 voltage03/01/2017• at AC at 50 Hz rated value6 24 V- at 60 Hz rated value6 24 V• at DC rated value6 24 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control2 Ainrush current maximum2 AConnections/ Terminalsscrew-type terminals	<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 • 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 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control20 %inrush current maximum2 AConnections/ Terminalsscrew-type terminals	vibration resistance	
operating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)03/01/2017operating 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)       03/01/2017         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 %         Control circuit/ Control       20 %         inrush current maximum       2 A         Connections/ Terminals       screw-type terminals	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
Substance Prohibitance (Date)       03/01/2017         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 %         Control circuit/ Control       20 %         inrush current maximum       2 A         Connections/ Terminals       screw-type terminals	operating period typical	100 000 h
operating voltage • at AC6- at 50 Hz rated value6- at 50 Hz rated value6- at 60 Hz rated value6• at DC rated value6• at DC rated value6relative positive tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %Control circuit/ Control2 Ainrush current maximum2 AConnections/ Terminalsscrew-type terminals	reference code according to IEC 81346-2	P
• 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 %relative positive tolerance of the operating voltage20 %Control circuit/ Control20 %inrush current maximum2 AConnections/ Terminalsscrew-type terminals	Substance Prohibitance (Date)	03/01/2017
- 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 Vrelative positive tolerance of the operating voltage20 %control circuit/ Control20 %inrush current maximum2 AConnections/ Terminalsscrew-type terminals	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         Connections/ Terminals       screw-type terminals         type of electrical connection       screw-type terminals	● 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         Connections/ Terminals       screw-type terminals         type of electrical connection       screw-type terminals	— 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         Connections/ Terminals       screw-type terminals         type of electrical connection       screw-type terminals	— 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         Connections/ Terminals       2 x         type of electrical connection       screw-type terminals	at DC rated value	6 24 V
Control circuit/ Control         inrush current maximum       2 A         Connections/ Terminals         type of electrical connection       screw-type terminals		20 %
inrush current maximum     2 A       Connections/ Terminals	relative negative tolerance of the operating voltage	20 %
Connections/ Terminals       type of electrical connection       screw-type terminals	Control circuit/ Control	
type of electrical connection screw-type terminals	inrush current maximum	2 A
	Connections/ Terminals	
	type of electrical connection	screw-type terminals
	type of connectable conductor cross-sections	

<ul> <li>solid with core end processing</li> </ul>	2x (0.5 0.75 mm²)	
<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>at 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	white	
light intensity	900 1 400 mcd	
certificate of suitability		
• 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 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		
<ul> <li>plastic enclosure</li> </ul>	Yes	
<ul> <li>metal enclosure</li> </ul>	Yes	
Certificates/ approvals		
Further information		
Information- and Downloadcenter (Catalogs, Brochures, https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/produc Cax online generator		
http://support.automation.siemens.com/WW/CAXorder/defau		
Service&Support (Manuals, Certificates, Characteristics, FAQs)		

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2BG60-1AA0-Z X90 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-2BG60-1AA0-Z X90&lang=en







last modified:

3/9/2022 🖸

Subject to change without notice © Copyright Siemens