## SIEMENS

## Data sheet

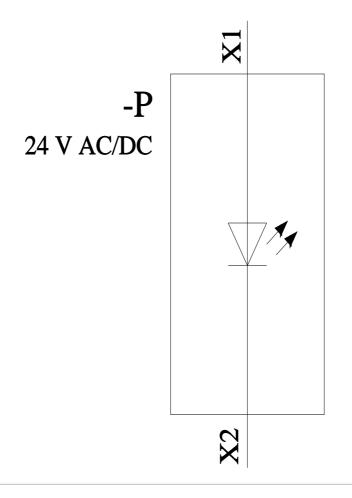
## 3SU1102-6AA20-3AA0-Z Y12



Indicator lights, 22 mm, round, plastic, red, lens, smooth, with holder, LED module, with integrated LED 24 V AC/DC, spring-type terminal, with laser labeling, lower case

product brand name	SIRIUS ACT
product designation	Indicator lights
design of the product	Complete unit
product type designation	3SU1
product line	Plastic, black, 22 mm
manufacturer's article number	
<ul> <li>of supplied LED module</li> </ul>	<u>3SU1401-1BB20-3AA0</u>
<ul> <li>of the supplied holder</li> </ul>	<u>3SU1550-0AA10-0AA0</u>
<ul> <li>of supplied repeater</li> </ul>	<u>3SU1001-6AA20-0AA0</u>
Enclosure	
number of command points	1
Actuator	
product extension optional light source	Yes
color	
<ul> <li>of the actuating element</li> </ul>	red
material of the actuating element	plastic
shape of the actuating element	round
outer diameter of the actuating element	29.45 mm
marking of the actuating element	Any inscription, text in lower case
Front ring	
product component front ring	No
Holder	
material of the holder	Plastic
Display	
number of LED modules	1
General technical data	
product component light source	Yes
insulation voltage rated value	320 V
degree of pollution	3
surge voltage resistance rated value	4 kV
protection class IP	IP66, IP67, IP69(IP69K)
of the terminal	IP20
degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
shock resistance	
<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms
<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
vibration resistance	
<ul> <li>according to IEC 60068-2-6</li> </ul>	10 500 Hz: 5g
<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
reference code according to IEC 81346-2	P

Substance Prohibitance (Date)         10/01/2014           Supply voltage         Image of the supply voltage of the light source at AC         AC/DC           • at 50 Hz rated value         24 V         • at 60 Hz rated value         24 V           • at 60 Hz rated value         24 V         • at 60 Hz rated value         24 V           • at 60 Hz rated value         24 V         • at 60 Hz rated value         24 V           • rated value         24 24 V         • at 60 Hz rated value         24 24 V           • rated value         24 24 V         • at 60 Hz rated value         24 24 V           • rated value         24 24 V         • at 60 Hz rated value         24 24 V           relative negative tolerance of the supply voltage         30 %         • at 60 Hz rated value         24 24 V           relative negative tolerance of the supply voltage         25 %         • Connections/Terminals         • Control circuit Control           Inrush current maximum         2 A         Connections/Terminals         • Connections/Terminals         • Connections/Terminal           type of electrical connection         other         other         • Spring-type terminal         • Connections/Terminals           type of electrical conductor cross-sections         \$ (20 25 0.75 mm <sup>2</sup> )         • (25 0.75 mm <sup>2</sup> )         • (25	
type of voltage of the supply voltage of the light source         AC/DC           supply voltage of the light source at AC         24 V           • at 50 Hz rated value         24 V           • at 60 Hz rated value         24 V           • at 60 Hz rated value         24 V           • at 60 Hz rated value         24 V           • rated value         24 V	
supply voltage of the light source at AC         • at 50 Hz rated value       24 V         • at 60 Hz rated value       24 U         • at 60 Hz rated value       24 U         • at 60 Hz rated value       24 U         supply voltage of the light source at DC       • rated value         • rated value       24 U         • rated value       24 U         • rated value       24 24 V         • rated value       24 24 V </td <td></td>	
• at 50 Hz rated value       24 V         • at 60 Hz rated value       24 V         • at 60 Hz rated value       24 24 V         • supply voltage of the light source at DC       -         • rated value       24 24 V         • rated value       24 24 V         relative negative tolerance of the supply voltage       30 %         relative negative tolerance of the supply voltage       25 %         Connections/ Torminals       5 %         type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of electrical connection       other         • finely stranded with core end processing       2x (0.25 1.5 mm²)         • finely stranded without core end processing       2x (0.25 1.5 mm²)         • finely stranded without core end processing       2x (0.25 1.5 mm²)         • finely stranded without core end processing       2x (0.25 1.5 mm²)         • tightening torque of the screws in the bracket       1 1.2 N m         Lamp       tup       450 1120 mcd         Ambient conditions       red	
• at 60 Hz rated value       24 V         • at 60 Hz rated value       24 24 V         supply voltage of the light source at DC       -         • rated value       24 24 V         • rated value       24 24 V         relative negative tolerance of the supply voltage       30 %         relative positive tolerance of the supply voltage       30 %         Control circuit/ Control       Inrush current maximum         2 A       Connections/ Terminals         type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of connectable conductor cross-sections       •         • solid without core end processing       2x (0.25 1.5 mm <sup>2</sup> )         • finely stranded with core end processing       2x (0.25 1.5 mm <sup>2</sup> )         • finely stranded without core end processing       2x (2.4 16)         tightening torque of the screws in the bracket       1 1.2 N m         Lamp       tor of the light source       LED         color of the light source       LED         ilght intensity       450 1120 mcd         Ambient conditions       ambient temperature         • during storage       -0 +80 °C         environmental category during operation according to IEC 60721       3	
• at 60 Hz rated value       24 24 V         supply voltage of the light source at DC       · rated value         • rated value       24 V         • rated value       24 24 V         relative negative tolerance of the supply voltage       30 %         relative negative tolerance of the supply voltage       25 %         Control circuit/ Control	
supply voltage of the light source at DC       24 V         • rated value       24 24 V         • rated value       24 24 V         relative negative tolerance of the supply voltage       25 %         Control circuit/ Control       25 %         Inrush current maximum       2 A         connections/ Terminals       24 (0.25 15 mm²)         type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of connectable conductor cross-sections       2x (0.25 15 mm²)         • finely stranded with core end processing       2x (0.25 15 mm²)         • finely stranded with core end processing       2x (0.24 16)         tightening torque of the screws in the bracket       1 12 N·m         Lamp       tightening torque of the screws in the bracket       1 12 N·m         Lamp       tech       idd         type of light source       red       red         light intensity       450 1 120 mcd       450 160 (tight real to a in the ind to a cording to IEC Gor of the light source         environmental category during operation       -25 +70 °C        -0 +80 °C          environmental category during operation according to IEC Gor 21 and exices behind front panel)       ind toperation fore toperation fore toperation fore toperatio	
rated value         rated value         rated value         24 24 V         relative negative tolerance of the supply voltage         30 %         relative negative tolerance of the supply voltage         25 %         Control circuit/ Control         inrush current maximum         2 A         Connections/ Terminals         type of electrical connection         other         of modules and accessories         solid without core end processing         2x (0.25 1.5 mm <sup>3</sup> )         efnely stranded with core end processing         2x (0.25 1.5 mm <sup>3</sup> )         efnely stranded without core end processing         2x (0.25 1.5 mm <sup>3</sup> )         efnely stranded without core end processing         2x (0.25 1.5 mm <sup>3</sup> )         efnely stranded without core end processing         2x (0.25 1.5 mm <sup>3</sup> )         efnely stranded without core end processing         2x (0.25 1.5 mm <sup>3</sup> )         efnely stranded without core end processing         2x (0.25 1.5 mm <sup>3</sup> )         efnely stranded without core end processing         2x (0.25 1.5 mm <sup>3</sup> )         efnely stranded without core end processing         2x (24 16)         tightening torque of the screws in the bracket         1 12 N·m         Lenp         type of light source         LED         color of the light source         red         light intensity         450 1 120 mcd         Ambient conditions         ambient temperature         oduring operation         -25 +70 °C         -40 +80 °C         environmental category during operation according to IEC         0721         Installation/ mounting/ dimensions         fastening method         e of modules and accessories         Front plate mounting         Front plate mounting	
• rated value       24 24 V         relative negative tolerance of the supply voltage       30 %         relative positive tolerance of the supply voltage       25 %         Control circuit/ Control       Inrush current maximum         2 A       Connections/ Terminals         type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of connectable conductor cross-sections       •         • solid without core end processing       2x (0.25 1.5 mm²)         • finely stranded with core end processing       2x (0.25 1.5 mm²)         • finely stranded with core end processing       2x (24 16)         tightening torque of the screws in the bracket       1 1.2 N m         Lamp	
relative negative tolerance of the supply voltage       30 %         relative positive tolerance of the supply voltage       25 %         Control circuit/ Control       2 A         Inrush current maximum       2 A         Connections/ Terminals       0 ther         • of modules and accessories       Spring-type terminal         type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of connectable conductor cross-sections       -         • solid without core end processing       2x (0.25 0.75 mm²)         • finely stranded with core end processing       2x (0.25 1.5 mm²)         • for AWG cables       2x (24 16)         tightening torque of the screws in the bracket       1 1.2 N·m         Lamp       LED         type of light source       LED         color of the light source       IED         color of the light source       red         light intensity       450 1 120 mcd         Ambient conditions       -25 +70 °C         • during operation       -25 +70 °C         • during storage       -40 +80 °C         environmental category during operation according to IEC       3M6, 352, 382, 3K6 (with relative air humidity of 10 95%, no condensatt operation perr	
relative positive tolerance of the supply voltage       25 %         Control circuit/ Control       Inrush current maximum       2 A         Connections/ Terminals       type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of connectable conductor cross-sections       solid without core end processing       2x (0.25 1.5 mm²)         • finely stranded with core end processing       2x (0.25 1.5 mm²)       ifnely stranded without core end processing         • for AWG cables       2x (24 16)       tightening torque of the screws in the bracket       1 1.2 N·m         Lamp       type of light source       LED       color of the light source       red         type of strange       -40 +80 °C       -40 +80 °C       -40 +80 °C         ambient temperature       -25 +70 °C       -40 +80 °C       -25 MG Scl (With relative air humidity of 10 95%, no condensation operation permitted for all devices behind front panel)         Installation/ mounting/ dimensions       foot plate mounting       Front plate mounting	
Control circuit/ Control         inrush current maximum       2 A         Connections/ Terminals         type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of connectable conductor cross-sections       \$ <ul> <li>solid without core end processing</li> <li>2x (0.25 1.5 mm²)</li> <li>finely stranded with core end processing</li> <li>2x (0.25 1.5 mm²)</li> <li>finely stranded without core end processing</li> <li>2x (0.25 1.5 mm²)</li> <li>for AWG cables</li> <li>2x (24 16)</li> <li>tightening torque of the screws in the bracket</li> <li>1 1.2 N·m</li> </ul> <li>Lamp</li> <li>type of light source</li> <li>color of the light source</li> <li>red</li> <li>light intensity</li> <li>450 1120 mcd</li> <li>Ambient conditions         <ul> <li>ambient temperature</li> <li>during operation</li> <li>-25 +70 °C</li> <li>during storage</li> <li>-40 +80 °C</li> </ul> </li> <li>environmental category during operation according to IEC 60721</li> <li>more and category during operation according to IEC 60721</li> <li>Installation/ mounting/ dimensions</li> <li>fastening method</li> <li>of modules and accessories</li>	
inrush current maximum       2 A         Connections/ Terminals       other         • of modules and accessories       Spring-type terminal         type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of connectable conductor cross-sections       solid without core end processing         • solid without core end processing       2x (0.25 1.5 mm²)         • finely stranded without core end processing       2x (0.25 1.5 mm²)         • finely stranded without core end processing       2x (24 16)         tightening torque of the screws in the bracket       1 1.2 N·m         Lamp       red         tight intensity       450 1 120 mcd         Ambient conditions       -25 +70 °C         • during operation       -25 +70 °C         • during storage       -40 +80 °C         environmental category during operation according to IEC       3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensati operation permitted for all devices behind front panel)         Installation/ mounting/ dimensions       front plate mounting         fastening method       front plate mounting         • of modules and accessories       Front plate mounting	
Connections/ Terminals         type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of connectable conductor cross-sections       solid without core end processing         • solid without core end processing       2x (0.25 1.5 mm²)         • finely stranded with core end processing       2x (0.25 1.5 mm²)         • finely stranded with core end processing       2x (0.25 1.5 mm²)         • for AWG cables       2x (24 16)         tightening torque of the screws in the bracket       1 1.2 N·m         Lamp       tume         tight intensity       450 1 120 mcd         Ambient conditions       ambient temperature         • during operation       -25 +70 °C         • during operation       -25 +70 °C         • during operation according to IEC 60721       3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensati operation pervitted for all devices behind front panel)         Installation/ mounting/ dimensions       font plate mounting         fastening method       font plate mounting         • of modules and accessories       Front plate mounting	
type of electrical connection       other         • of modules and accessories       Spring-type terminal         type of connectable conductor cross-sections       • solid without core end processing         • solid without core end processing       2x (0.25 1.5 mm²)         • finely stranded with core end processing       2x (0.25 0.75 mm²)         • finely stranded without core end processing       2x (0.25 1.5 mm²)         • for AWG cables       2x (24 16)         tightening torque of the screws in the bracket       1 1.2 N·m         Lamp       LED         type of light source       LED         color of the light source       red         light intensity       450 1 120 mcd         Ambient conditions       -25 +70 °C         • during operation       -25 +70 °C         • during storage       -40 +80 °C         environmental category during operation according to IEC       60721         fort plate mounting       font plate mounting         Installation/ mounting/ dimensions       font plate mounting         fastening method       font plate mounting         • of modules and accessories       Front plate mounting	
• of modules and accessories     Spring-type terminal       type of connectable conductor cross-sections     -       • solid without core end processing     2x (0.25 1.5 mm²)       • finely stranded with core end processing     2x (0.25 0.75 mm²)       • finely stranded without core end processing     2x (0.25 1.5 mm²)       • finely stranded without core end processing     2x (0.25 1.5 mm²)       • for AWG cables     2x (24 16)       tightening torque of the screws in the bracket     1 1.2 N·m       tight source     LED       color of the light source     red       light intensity     450 1 120 mcd       Ambient conditions     -       ambient temperature     -       • during operation     -25 +70 °C       • during storage     -40 +80 °C       environmental category during operation according to IEC     30K, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensati operation permitted for all devices behind front panel)       Installation/ mounting/ dimensions     font plate mounting       fastening method     font plate mounting       • of modules and accessories     Front plate mounting	
type of connectable conductor cross-sections         • solid without core end processing       2x (0.25 1.5 mm²)         • finely stranded with core end processing       2x (0.25 0.75 mm²)         • finely stranded without core end processing       2x (2.25 1.5 mm²)         • finely stranded without core end processing       2x (2.4 16)         • finely stranded without core end processing       2x (2.4 16)         • for AWG cables       2x (24 16)         tightening torque of the screws in the bracket       1 1.2 N·m         Lamp	
<ul> <li>solid without core end processing</li> <li>finely stranded with core end processing</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>2x (0.25 0.75 mm<sup>3</sup>)</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>2x (24 16)</li> <li>tightening torque of the screws in the bracket</li> <li>1 1.2 N·m</li> <li>Lamp</li> <li>type of light source</li> <li>LED</li> <li>color of the light source</li> <li>light intensity</li> <li>450 1 120 mcd</li> <li>Ambient conditions</li> <li>ambient temperature</li> <li>during operation</li> <li>-25 +70 °C</li> <li>environmental category during operation according to IEC</li> <li>3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensati operation permitted for all devices behind front panel)</li> <li>Installation/ mounting/ dimensions</li> <li>fastening method</li> <li>of modules and accessories</li> </ul>	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables</li> <li>for AWG cables</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>2x (24 16)</li> <li>tightening torque of the screws in the bracket</li> <li>1. 1.2 N·m</li> <li>Lamp</li> <li>type of light source</li> <li>LED</li> <li>color of the light source</li> <li>red</li> <li>light intensity</li> <li>450 1 120 mcd</li> <li>Ambient conditions</li> <li>ambient temperature</li> <li>during operation</li> <li>-25 +70 °C</li> <li>environmental category during operation according to IEC</li> <li>60721</li> <li>operation permitted for all devices behind front panel)</li> <li>Installation/ mounting/ dimensions</li> <li>fastening method</li> <li>of modules and accessories</li> </ul>	
• finely stranded without core end processing       2x (0.25 1.5 mm²)         • for AWG cables       2x (24 16)         tightening torque of the screws in the bracket       1 1.2 N·m         Lamp       type of light source         type of light source       LED         color of the light source       red         light intensity       450 1 120 mcd         Ambient conditions       ambient temperature         • during operation       -25 +70 °C         • during storage       -40 +80 °C         environmental category during operation according to IEC 60721       3M6, 352, 382, 3K6 (with relative air humidity of 10 95%, no condensati operation permitted for all devices behind front panel)         Installation/ mounting/ dimensions       front plate mounting         fastening method       front plate mounting         • of modules and accessories       Front plate mounting	
• for AWG cables       2x (24 16)         tightening torque of the screws in the bracket       1 1.2 N·m         Lamp       LED         color of the light source       red         light intensity       450 1 120 mcd         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, 3K6 (with relative air humidity of 10 95%, no condensati operation permitted for all devices behind front panel)         Installation/ mounting/ dimensions       front plate mounting         • of modules and accessories       Front plate mounting	
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Lamp         type of light source       LED         color of the light source       red         light intensity       450 1 120 mcd         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, 3K6 (with relative air humidity of 10 95%, no condensati operation permitted for all devices behind front panel)         Installation/ mounting/ dimensions       front plate mounting         • of modules and accessories       Front plate mounting	
type of light source       LED         color of the light source       red         light intensity       450 1 120 mcd         Ambient conditions       ambient conditions         ambient temperature       -25 +70 °C         • during operation       -25 +70 °C         • during storage       -40 +80 °C         environmental category during operation according to IEC 60721       3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensati operation permitted for all devices behind front panel)         Installation/ mounting/ dimensions       front plate mounting         fastening method       front plate mounting         • of modules and accessories       Front plate mounting	
color of the light source       red         light intensity       450 1 120 mcd         Ambient conditions	
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Ambient conditions         ambient temperature         • during operation         • during storage         -40 +80 °C         environmental category during operation according to IEC         60721         Installation/ mounting/ dimensions         fastening method         • of modules and accessories	
ambient temperature       -25 +70 °C         • during operation       -25 +70 °C         • during storage       -40 +80 °C         environmental category during operation according to IEC 60721       3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation operation permitted for all devices behind front panel)         Installation/mounting/ dimensions       front plate mounting         fastening method       front plate mounting         • of modules and accessories       Front plate mounting	
• during operation       -25 +70 °C         • during storage       -40 +80 °C         • environmental category during operation according to IEC 60721       3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation operation permitted for all devices behind front panel)         Installation/ mounting/ dimensions       front plate mounting         • of modules and accessories       Front plate mounting	
• during storage       -40 +80 °C         environmental category during operation according to IEC 60721       3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation operation permitted for all devices behind front panel)         Installation/ mounting/ dimensions       front plate mounting         • of modules and accessories       Front plate mounting	
environmental category during operation according to IEC       3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation operation permitted for all devices behind front panel)         Installation/ mounting/ dimensions       fastening method         • of modules and accessories       Front plate mounting	
60721     operation permitted for all devices behind front panel)       Installation/ mounting/ dimensions     front plate mounting       fastening method     front plate mounting       • of modules and accessories     Front plate mounting	
Installation/ mounting/ dimensions         fastening method       front plate mounting         • of modules and accessories       Front plate mounting	on in
fastening method     front plate mounting       • of modules and accessories     Front plate mounting	
of modules and accessories     Front plate mounting	
width 30 mm	
shape of the installation opening round	
mounting diameter 22.3 mm	
positive tolerance of installation diameter 0.4 mm	
mounting height 11.8 mm	
installation width 29.5 mm	
installation depth 49.7 mm	
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 EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).	o an
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=3SU1102-6AA20-3AA0-Z Y12	
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1102-6AA20-3AA0-Z Y12	
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3SU1102-6AA20-3AA0-Z Y12	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1102-6AA20-3AA0-Z Y12⟨=en	



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