## **SIEMENS**

## **Data sheet**



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

product brand name	SIRIUS ACT
product designation	LED module
product type designation	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
surge voltage resistance rated value	4 kV
consumed current maximum	30 mA
protection class IP	
<ul> <li>of the enclosure</li> </ul>	IP40
of the terminal	IP20
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	
• according to IEC 60068-2-6	10 500 Hz: 5g
<ul> <li>for railway applications according to EN 61373</li> </ul>	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 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	
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)

solid without core end processing     inely stranded with core end processing     inely stranded without core end processing     inely and in a support content of the stranded without content of th	initially stranded with core end processing initially stranded without core end processing in finely stranded without core end processing in for AWG cables  2x (10 1,5 mm²) 2x (18 14)  2x (18 12)  2x (18 14)  2x (18			
• finely stranded without core end processing     • for AWG cables     2x (1, 0, 1, 5 mm²)     2x (18 14)  tightening torque with screw-type terminals  Lamp  type of light source     color of the light source  light intensity     450 1 120 mcd  certificate of suitability     • ATEX     • IECEx     No  Ambient conditions  ambient temperature     • during operation     • during storage environmental category during operation according to IEC 60721  installation/ mounting/ dimensions  fastening method     • of modules and accessories height width     9.8 mm  depth  suitability or integration     • plastic enclosure     • metal enclosure     Yes  metal enclosure  Yes	finely stranded without core end processing   2x (1,0 1,5 mm²)     for AWG cables   2x (18 14)     tightening torque with screw-type terminals   0.8 0.9 N·m	<ul> <li>solid without core end processing</li> </ul>	2x (1.0 1.5 mm²)	
• for AWG cables     tightening torque with screw-type terminals     0.8 0.9 N·m  Lamp  type of light source     color of the light source     ilight intensity     • ATEX     • IECEX     No  Ambient conditions  ambient temperature     • during operation     • during storage     environmental category during operation according to IEC     60721  Installation/ mounting/ dimensions  fastening method     • of modules and accessories  height     width  depth     sultability for integration     • plastic enclosure     • metal enclosure     • metal enclosure     • metal enclosure     Yes     • metal enclosure     Yes	tightening torque with screw-type terminals  0.8 0.9 N·m  type of light source  color of the light source  light intensity  ATEX  IECEX  No  Ambient conditions  ambient temperature  during operation  during storage  environmental category during operation according to IEC  60721  environmental category during operationstatializion/ mounting/ dimensions  fastening method  of modules and accessories  Front plate mounting  height  width  9.8 mm  depth  e plastic enclosure  yes  metal enclosure  Yes  Certificates/ approvals	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)	
tightening torque with screw-type terminals  Lamp  type of light source  color of the light source  light intensity  • ATEX  • IECEX  No  Ambient conditions  ambient temperature  • during operation  • during storage  environmental category during operation according to IEC  60721  Installation/ mounting/ dimensions  fastening method  • of modules and accessories  height  width  depth  suitability for integration  • plastic enclosure  • metal enclosure  Yes	tightening torque with screw-type terminals  Lamp  type of light source color of the light source light intensity 450 1 120 mcd  certificate of suitability ATEX No IECEX No Ambient conditions  ambient temperature during operation during storage environmental category during operation according to IEC 60721  fastening method of modules and accessories  fastening method of modules and accessories  feight width depth splatfic enclosure  plastic enclosure yes metal enclosure  Yes  Certificates/ approvals	<ul> <li>finely stranded without core end processing</li> </ul>	2x (1,0 1,5 mm²)	
type of light source LED  color of the light source amber light intensity 450 1 120 mcd  certificate of suitability  • ATEX  • IECEX  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  height 33.2 mm  width 9.8 mm  depth 9.9 mm  suitability for integration  • plastic enclosure  • metal enclosure  Yes	type of light source LED  color of the light source amber light intensity 450 1 120 mcd  certificate of suitability  • ATEX No  • IECEX No  Ambient conditions  ambient temperature  • during operation • during storage 40 +80 °C  environmental category during operation according to IEC 60721  materialistion/ mounting/ dimensions  fastening method • of modules and accessories  height 33.2 mm  width 9.8 mm  depth 29.4 mm  suitability for integration • plastic enclosure • metal enclosure  Yes  Certificates/ approvals	• for AWG cables	2x (18 14)	
type of light source  color of the light source  light intensity  450 1 120 mcd  certificate of suitability  • ATEX  • IECEX  No  Ambient conditions  ambient temperature  • during operation  • during storage  environmental category during operation according to IEC  60721  condensation in operation permitted)  Installation/ mounting/ dimensions  fastening method  • of modules and accessories  height  width  depth  9.8 mm  depth  suitability for integration  • plastic enclosure  • metal enclosure  Yes	type of light source LED  color of the light source amber  light intensity 450 1 120 mcd  certificate of suitability  • ATEX • IECEX No  Ambient conditions  ambient temperature • during operation • during storage 40 +80 °C  environmental category during operation according to IEC 60721  environmental category during operation according to IEC 60721  enstallation/ mounting/ dimensions  fastening method • of modules and accessories  height 9.8 mm  depth 9.8 mm  suitability for integration • plastic enclosure • metal enclosure  Yes  Certificates/ approvals	tightening torque with screw-type terminals	0.8 0.9 N·m	
color of the light source light intensity	color of the light source amber light intensity 450 1 120 mcd  certificate of suitability	Lamp		
light intensity 450 1 120 mcd  certificate of suitability  • ATEX • IECEX  No  Ambient conditions  ambient temperature • during operation • during storage environmental category during operation according to IEC 60721  installation/ mounting/ dimensions  fastening method • of modules and accessories height width gentlem 33.2 mm  width depth suitability for integration • plastic enclosure • metal enclosure  450 1 120 mcd  No  No  No  No  Ambient temperature  - 25 +70 °C  - 40 +80 °C  3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)  Front plate mounting  132. mm  yidth yes  Pes	light intensity  eATEX  • ATEX  • IECEx  No  Ambient conditions  ambient temperature  • during operation • during storage  environmental category during operation according to IEC 670721  condensation in operation permitted)  installation/ mounting/ dimensions  fastening method  • of modules and accessories  height  indicates/ approvals  environmental category  yes  environmental category  yes  Experimental category  attention and accessories  Front plate mounting  yes  environmental category  yes  environmental category  attention permitted)  attention permitted)  attention permitted)  attention permitted  att	type of light source	LED	
certificate of suitability  • ATEX • IECEX  No  Ambient conditions  ambient temperature • during operation • during storage environmental category during operation according to IEC 60721  Installation/ mounting/ dimensions  fastening method • of modules and accessories  height  width 9.8 mm  depth  suitability for integration • plastic enclosure • metal enclosure  Yes	certificate of suitability	color of the light source	amber	
ATEX  IECEX  No  Ambient conditions  ambient temperature  during operation  during storage  environmental category during operation according to IEC  60721  Installation/ mounting/ dimensions  fastening method  of modules and accessories  height  width  grad  plastic enclosure  plastic enclosure  Yes  Yes  No  No  No  No  No  No  AMB, 382, 382, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)  Front plate mounting  33.2 mm  yidth  9.8 mm  29.4 mm	ATEX  IECEX  No  Ambient conditions  ambient temperature  during operation during storage  environmental category during operation according to IEC among according to IEC environmental category during operation according to IEC among ac	light intensity	450 1 120 mcd	
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Ambient conditions  ambient temperature  • during operation • during storage • during storage • environmental category during operation according to IEC 60721  Installation/ mounting/ dimensions  fastening method • of modules and accessories  height  33.2 mm  width 9.8 mm  depth suitability for integration • plastic enclosure • metal enclosure  • metal enclosure  1-25 +70 °C  -40 +80 °C  3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)  1 metal enclosure  -25 +70 °C  3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)  3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation approximately approximatel	Ambient conditions  ambient temperature  • during operation • during storage  environmental category during operation according to IEC condensation in operation permitted)  installation/ mounting/ dimensions  fastening method • of modules and accessories  Front plate mounting  width 9.8 mm  depth 29.4 mm  suitability for integration • plastic enclosure • metal enclosure  make a condensation in operation permitted)  7 yes  metal enclosure  Yes  Certificates/ approvals	• ATEX	No	
ambient temperature  • during operation • during storage • during storage • during storage • during operation according to IEC environmental category during operation according to IEC 60721  Installation/ mounting/ dimensions  fastening method • of modules and accessories  Front plate mounting  height 33.2 mm  width 9.8 mm  depth suitability for integration • plastic enclosure • metal enclosure  • metal enclosure  • during operation -25 +70 °C -40 +80 °C  3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)  Front plate mounting  9.8 mm  29.4 mm	ambient temperature  • during operation • during storage • during storage -40 +80 °C  environmental category during operation according to IEC 60721  statisticn/ mounting/ dimensions  fastening method • of modules and accessories  feight 33.2 mm  width 9.8 mm  depth 9.8 mm  suitability for integration • plastic enclosure • metal enclosure • metal enclosure • metal enclosure • result of the suitability for integration  - 25 +70 °C -40 +80 °C	• IECEx	No	
<ul> <li>during operation         <ul> <li>during storage</li> <li>the during storage</li> <li>the storage storage</li> <li>the storage storage storage</li> <li>the storage storage storage</li> <li>the storage storage</li></ul></li></ul>	<ul> <li>during operation</li> <li>during storage</li> <li>the during operation according to IEC</li> <li>the during operation oper</li></ul>	Ambient conditions		
<ul> <li>during storage</li> <li>-40 +80 °C</li> <li>environmental category during operation according to IEC 60721</li> <li>3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)</li> <li>Installation/ mounting/ dimensions</li> <li>fastening method         <ul> <li>of modules and accessories</li> <li>Front plate mounting</li> </ul> </li> <li>height         <ul> <li>33.2 mm</li> </ul> </li> <li>width</li> <li>9.8 mm</li> <li>depth</li> <li>suitability for integration</li> <li>plastic enclosure</li> <li>metal enclosure</li> <li>Yes</li> <li>metal enclosure</li> <li>Yes</li> </ul>	oduring storage     environmental category during operation according to IEC 60721  Installation/ mounting/ dimensions  fastening method     of modules and accessories  height  width  depth  suitability for integration     oplastic enclosure     ometal enclosure  metal enclosure  during storage  -40 +80 °C  3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)  The proof plate mounting  suitability for integration  yes  Certificates/ approvals	ambient temperature		
environmental category during operation according to IEC 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)  Installation/ mounting/ dimensions  fastening method  of modules and accessories  Front plate mounting  height  33.2 mm  width  9.8 mm  depth  29.4 mm  suitability for integration  oplastic enclosure  Yes  metal enclosure  Yes	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)  fastening method	<ul> <li>during operation</li> </ul>	-25 +70 °C	
condensation in operation permitted)  Installation/ mounting/ dimensions  fastening method  of modules and accessories  Front plate mounting  height  33.2 mm  width  9.8 mm  depth  suitability for integration  of plastic enclosure  metal enclosure  Yes	condensation in operation permitted)  Installation/ mounting/ dimensions  fastening method	during storage	-40 +80 °C	
fastening method	fastening method			
● of modules and accessories  Front plate mounting  133.2 mm  width 9.8 mm  depth 29.4 mm  suitability for integration  ■ plastic enclosure ■ metal enclosure  ■ metal enclosure  Yes	of modules and accessories     Front plate mounting     33.2 mm      width 9.8 mm      depth 29.4 mm      suitability for integration	Installation/ mounting/ dimensions		
height         33.2 mm           width         9.8 mm           depth         29.4 mm           suitability for integration         Yes           e plastic enclosure         Yes           e metal enclosure         Yes	height 33.2 mm  width 9.8 mm  depth 29.4 mm  suitability for integration  • plastic enclosure • metal enclosure • metal enclosure  • results approvals	fastening method		
width 9.8 mm  depth 29.4 mm  suitability for integration  • plastic enclosure Yes  • metal enclosure Yes	width 9.8 mm  depth 29.4 mm  suitability for integration  • plastic enclosure • metal enclosure • metal enclosure  • rescond yes  Certificates/ approvals	<ul> <li>of modules and accessories</li> </ul>	Front plate mounting	
depth     29.4 mm       suitability for integration     Yes       plastic enclosure     Yes       metal enclosure     Yes	depth 29.4 mm  suitability for integration  • plastic enclosure Yes  • metal enclosure Yes  Certificates/ approvals	height	33.2 mm	
suitability for integration  • plastic enclosure  • metal enclosure  Yes  Yes	suitability for integration  • plastic enclosure  • metal enclosure  Yes  Certificates/ approvals	width	9.8 mm	
<ul> <li>plastic enclosure</li> <li>metal enclosure</li> <li>Yes</li> </ul>	plastic enclosure     metal enclosure  Certificates/ approvals  Yes  Yes  Yes	depth	29.4 mm	
• metal enclosure Yes	metal enclosure     Yes  Certificates/ approvals	suitability for integration		
	Certificates/ approvals	<ul> <li>plastic enclosure</li> </ul>	Yes	
Certificates/ approvals		metal enclosure	Yes	
	Further information	Certificates/ approvals		
Further information		Further information		

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1401-1BG00-1AA0-Z X90

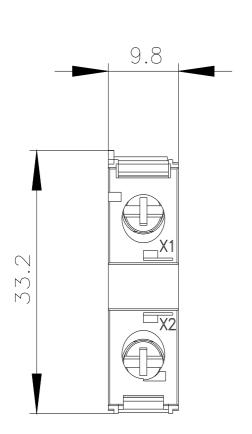
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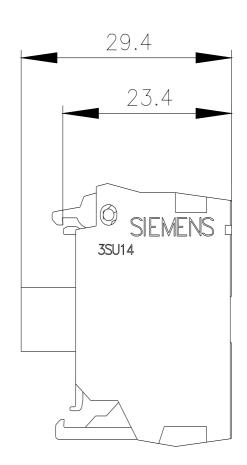
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1BG00-1AA0-Z X90

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

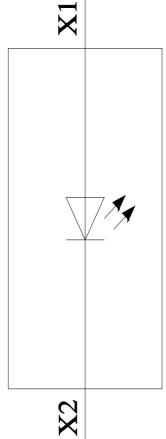
https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1BG00-1AA0-Z X90

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1401-1BG00-1AA0-Z X90&lang=en

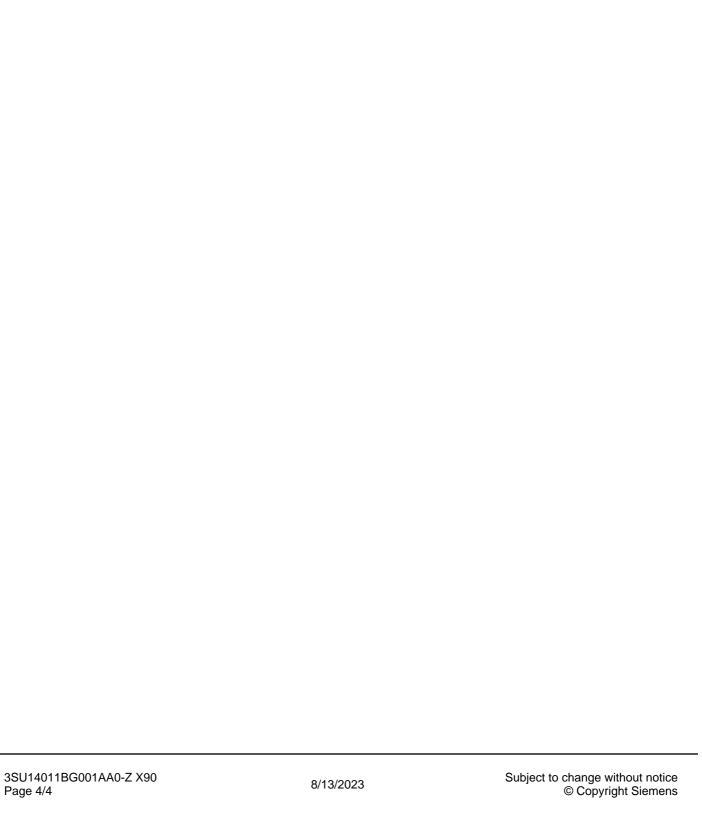








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