SIEMENS

Data sheet

3SU1401-1BH50-1AA0



LED module with integrated LED, 24-240 V AC/DC, blue, screw terminal, for front plate mounting

product brand name SIRUS ACT product type designation SSU1 General technical data - product type designation SSU1 General technical data - oldod Yes oldod Yes olanp transformer No olgotes resistor No insulation votage rated value 320 V degree of polution 3 type of votage of the operating votage AC/DC of or actuation AC/DC or of actuation AC/DC or of actuation AC/DC or of the operating votage A/D of the enclosure IP40 of the enclosure IP20 of the enclosure insusoidal half-wave 15g / 11 ms of for railway applications according to EN 61373 Category 1, Class B vibration resistance insusoidal half-wave 15g / 11 ms of railway applications according to EN 61373 Category 1, Class B operating votage IO		
product type designation 3SU1 General technical data	product brand name	SIRIUS ACT
Conneral technical data product component • diode • lamp transformer • light source • series resistor Insulation voltage rated value 200 V degree of pollution 3 type of voltage of the operating voltage • for actuation according to IEC 60068-2-7 • for raturation • according to IEC 60068-2-7 • according to IEC 60068-2-6 • according to IEC 60068-2-7 • according to IEC 60068-2-7 • according to IEC 60068-2-7 • according to IEC 81346-2 P Substance Prohibitance (Date) • according to IEC 81346-2 P Substance Prohibitance (Date) • at C	product designation	LED module
product component Yes • idiode 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 20 mA protection class IP IP40 • of the enclosure IP40 • of the terminal 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 orbrailway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to EC 81345-2 P Substance Prohibitance (Date) 00/10/12/14 operating voltage 24 240 V • at AC - at 50 Hz rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 20 % relative negative tolerance of the operating vol	product type designation	3SU1
• diodeYes• lamp transformerNo• light sourceYes• series resistorNo• series resistorNoinsultation voltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DC• for actuationAC/DC• for actuationAC/DC• for actuationAC/DC• of the terminal20 mAprotection class IPIP40• of the enclosureIP40• of the terminalIP20stock resistanceaccording to IEC 6008-2-27• for railway applications according to EN 61373Category 1, Class Bvibration resistance100500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100/1/2014operating period typical100/1/2014operating period typical100/1/2014• at AC at 50 Hz rated value24 240 V• at DC rated value24 240 V• at DC rated value20 %relative negative tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %connectionel Terminalsyew ef eterminalstype of endicitical connectionscrew-type terminals	General technical data	
• lamp transformerNo• light sourceYes• series resistorNoInsultatio voltage rated value320 Vdegree of pollution3type of voltage of the operating voltageAC/DC• for actuationAC/DC Csurge voltage resistance rated value4.kVconsumed current maximum20 mAprotection class IPImage: Second	product component	
• light source Yes • series resistor No Insulation voitage rate 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 20 mA protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 stock resistance Category 1, Class B • if or railway applications according to EN 61373 Category 1, Class B vibration resistance 100 000 h • according to IEC 60068-2-6 10500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B oparating period typical 100 000 h reference cade according to IEC 8136-2 P Substance Prohibitance (Date) 10/01/2014 oparating voltage 24 240 V - at 60 Hz rated value 24 240 V • at AC 20 % relative negative tolerance of the operating voltage 20 % • at DC rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 20 %	• 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 20 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 vibration resistance - • according to IEC 80068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating voltage P • substance Prohibitance (Dato) 100 10/02 I4 operating voltage 24 240 V - at 60 Hz rated value 24 240	 lamp transformer 	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 20 mA protection class IP	light source	Yes
degree of pollution 3 type of voltage of the operating voltage AC/DC • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 20 mA protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance category 1, Class B • 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 polications according to EC 81346-2 P Substance Prohibitance (Date) 10/01/2014 operating voltage - • at AC - - at 50 Hz rated value 24 240 V • at DC rated value 20 % relative negative tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control Circuit/	series resistor	No
bp of voltage of the operating voltage AC/DC • for actuation AC/DC 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 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 voltage 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 1001/2014 operating voltage 24 240 V - at 50 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V - at 0 C rated value 20 % relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % control circuit/ Control 3 A relative negative tolerance of the operating voltage 20 % relative negative tolerance of the oper	insulation voltage rated value	320 V
• for actuation AC/DC 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 isnusoidal half-wave 15g / 11 ms • of the terminal IP20 shock resistance isnusoidal half-wave 15g / 11 ms • of railway applications according to EN 61373 Category 1, Class B vibration resistance 0000 h • of 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 (Date) 100/1/2014 operating voltage - at 50 Hz rated value - at 60 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V - at 60 Hz rated value 20 % Control dracute for the operating voltage 20 % contol circuit/ Contol 3 A Connections/ Terminals 3 A	degree of pollution	3
surge voltage resistance rated value 4 kV consumed current maximum 20 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 1000 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 10/1/2014 operating voltage - • at AC - - at 50 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V • at DC rated value 20 % relative positive tolerance of the operating voltage 20 % cated value 20 % cated value 3 A connections/ Terminals Sacew-type terminals	type of voltage of the operating voltage	AC/DC
consumed current maximum20 mAprotection class IPIP40• 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 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 EN 61373Category 1, Class B• according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014• at AC at 60 Hz rated value24 240 V- at 60 Hz rated value24 240 V• at DC rated value20 %Control circuit/ Control3 AInrush current maximum3 AConnections/ Terminalsscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals	 for actuation 	AC/DC
protection class IP IP40 • of the enclosure IP40 • of the terminal IP20 shock resistance IP20 • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance - • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 100/1/2014 operating voltage - • at AC - - at 50 Hz rated value 24 240 V • at DC rated value 24 240 V • at DC rated value 20 % relative positive tolerance of the operating voltage 20 % control circuit/ Control Inrush current maximum inrush current maximum 3 A Connections/ Terminals Sucew-type terminals	surge voltage resistance rated value	4 kV
• of the enclosureIP40• of the terminalIP20shock resistanceIP20• according to IEC 60068-2-77sinsoidal half-wave 15g / 11 ms• of trailway applications according to EN 61373Category 1, Class Bvibration resistanceI0 500 Hz: 5g• of trailway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)100/1/2014• at AC at 50 Hz rated value24 240 V- at 60 Hz rated value24 240 V• at DC rated value20 %relative negative tolerance of the operating voltage20 %control circuit/ ControlJAinrush current maximum3 AConnections/ Terminalsscrew-type terminalstype of electrical connectionscrew-type terminals	consumed current maximum	20 mA
• of the terminalIP20shock resistancesinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance• for railway applications according to EN 61373Category 1, Class Boperating voltage10 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 00 hreference code according to EC 81346-2PSubstance Prohibitance (Date)10/01/2014operating voltage24 240 V• at AC24 240 V- at 60 Hz rated value24 240 V- at 60 Hz rated value20 %relative negative tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %cattrol cricuit/ Control3AConnections/ Terminalsscrew-type terminalstype of electrical connectionscrew-type terminals	protection class IP	
shock resistance sinusoidal half-wave 15g / 11 ms • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance - • according to IEC 60068-2-6 10 500 Hz; 5g • for railway applications according to EN 61373 Category 1, Class B operating period typical 100 000 h reference code according to IEC 81346-2 P Substance Prohibitance (Date) 10/01/2014 operating voltage 10/01/2014 operating voltage 24 240 V - at 50 Hz rated value 24 240 V - at 50 Hz rated value 24 240 V e at DC rated value 24 240 V - at 50 Hz rated value 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 3 A inrush current maximum 3 A Connections / Terminals yzew-type terminals type of connectable conductor cross-sections screw-type terminals	of the enclosure	IP40
according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014operating voltage10/01/2014• at AC at 50 Hz rated value24 240 V- at 60 Hz rated value24 240 V• at DC rated value24 240 V• at DC rated value20 %relative positive tolerance of the operating voltage20 %control circuit/ Control3 AConnections / Terminalstype of electrical connectionscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals	of the terminal	IP20
• for railway applications according to EN 61373Category 1, Class Bvibration resistance-• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014operating voltage-• at AC at 50 Hz rated value24 240 V- at 60 Hz rated value24 240 V• at DC rated value20 %relative positive tolerance of the operating voltage20 %control circuit/ Control3 AConnections/ TerminalsScrew-type terminalstype of electrical connectionscrew-type terminals	shock resistance	
vibration resistanceI0 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014operating voltage-• at AC at 50 Hz rated value24 240 V- at 60 Hz rated value24 240 V• at DC rated value24 240 Vrelative positive tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %Control circuit/ Control3 AConnections/ Terminalsscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals	 according to IEC 60068-2-27 	sinusoidal half-wave 15g / 11 ms
• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014operating voltage-• at AC at 50 Hz rated value24 240 V- at 60 Hz rated value24 240 V• at DC rated value24 240 V• at DC rated value20 %relative positive tolerance of the operating voltage20 %control circuit/ Control3 AConnections/ Terminals3 AConnectible conductor cross-sectionsscrew-type terminals	 for railway applications according to EN 61373 	Category 1, Class B
• for railway applications according to EN 61373Category 1, Class Boperating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014operating voltage10/01/2014• at AC at 50 Hz rated value24 240 V- at 60 Hz rated value24 240 V• at DC rated value24 240 Vrelative positive tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %control circuit/ Control3 AConnections/ Terminalsscrew-type terminalstype of electrical connectionscrew-type terminals	vibration resistance	
operating period typical100 000 hreference code according to IEC 81346-2PSubstance Prohibitance (Date)10/01/2014operating voltage10/01/2014• at AC24 240 V- at 50 Hz rated value24 240 V• at AC urated value24 240 V• at DC rated value3 AControl circuit/ ControlInrush current maximum3 AConnections/ Terminalstype of electrical connectionscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals	 according to IEC 60068-2-6 	10 500 Hz: 5g
reference code according to IEC 81346-2 P Substance Prohibitance (Date) 10/01/2014 operating voltage 10/01/2014 • at AC - - at 50 Hz rated value 24 240 V - at 60 Hz rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % Control circuit/ Control 20 % Inrush current maximum 3 A Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals	 for railway applications according to EN 61373 	Category 1, Class B
Substance Prohibitance (Date) 10/01/2014 operating voltage - • at AC - at 50 Hz rated value 24 240 V at 60 Hz rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % control circuit/ Control 20 % control circuit/ Control 3 A Connections/ Terminals screw-type terminals type of connectable conductor cross-sections screw-type terminals	operating period typical	100 000 h
operating voltage • at AC at 50 Hz rated value at 60 Hz rated value • at DC rated value • at DC rated value • at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections	reference code according to IEC 81346-2	P
• at AC24 240 V- at 50 Hz rated value24 240 V- at 60 Hz rated value24 240 V• at DC rated value24 240 Vrelative positive tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %Control circuit/ Control3 AConnections/ Terminals3 Atype of electrical connectionscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals	Substance Prohibitance (Date)	10/01/2014
at 50 Hz rated value24 240 V at 60 Hz rated value24 240 V• at DC rated value24 240 Vrelative positive tolerance of the operating voltage20 %relative negative tolerance of the operating voltage20 %Control circuit/ Control3 AConnections/ Terminals3 Atype of electrical connectionscrew-type terminalstype of connectable conductor cross-sectionsscrew-type terminals	operating voltage	
at 60 Hz rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 3 A Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals	• at AC	
• at DC rated value 24 240 V relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 20 % inrush current maximum 3 A Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals	— at 50 Hz rated value	24 240 V
relative positive tolerance of the operating voltage 20 % relative negative tolerance of the operating voltage 20 % Control circuit/ Control 3 A inrush current maximum 3 A Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type terminals	— at 60 Hz rated value	24 240 V
relative negative tolerance of the operating voltage 20 % Control circuit/ Control 3 A inrush current maximum 3 A Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type terminals	 at DC rated value 	24 240 V
Control circuit/ Control 3 A inrush current maximum 3 A Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type terminals	relative positive tolerance of the operating voltage	20 %
inrush current maximum 3 A Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type terminals	relative negative tolerance of the operating voltage	20 %
Connections/ Terminals screw-type terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections screw-type terminals	Control circuit/ Control	
type of electrical connection screw-type terminals type of connectable conductor cross-sections	inrush current maximum	3 A
type of connectable conductor cross-sections	Connections/ Terminals	
	type of electrical connection	screw-type terminals
• solid with core end processing 2x (0.5 0.75 mm ²)	type of connectable conductor cross-sections	
	 solid with core end processing 	2x (0.5 0.75 mm²)

 solid without core end processing 		2x (1.0 1.5 mm²)				
 finely stranded with core end process 	ina	2x (0.5 1.5 mm ²)				
finely stranded with core end processing finely stranded without core end processing		2x (1,0 1,5 mm ²)				
finely stranded without core end processing for AWG cables						
• for AWG cables		2x (18 14) 0.8 0.9 N·m				
Lamp		0.0 0.9 14 11				
type of light source		LED				
color of the light source		blue				
light intensity		280 710 mcd				
certificate of suitability		200 / 10 1100				
ATEX		No				
• IECEX		No				
Ambient conditions		110				
ambient temperature						
-		-25 +70 °C				
during operation		-25 +70 °C -40 +80 °C				
• during storage environmental category during operation according to IEC 60721		-40 +80 °C 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						
width	-		33.2 mm 9.8 mm			
depth		29.4 mm				
suitability for integration		20.4 mm				
plastic enclosure		Yes				
metal enclosure		Yes				
Certificates/ approvals		103				
General Product Approval				EMC		
	<u>Confirmation</u>		EHC	RCM		
Declaration of Conformity	Test Certificate	25	Marine / Shipping			
UK CA CE EG-Konf.	Type Test Cerr ates/Test Rep	ific- <u>Special Test Certific-</u> ort <u>ate</u>	ABS	Llovd's Kegister uts		
Marine / Shipping	other	Environment				
PRS RINA	<u>Confirmatio</u>	n <u>Environmental Con-</u> <u>firmations</u>				
Further information						

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

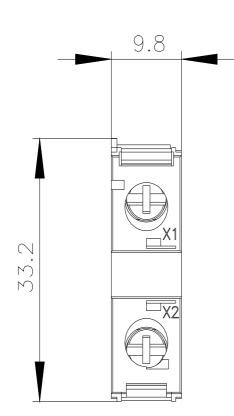
Industry Mall (Online ordering system)

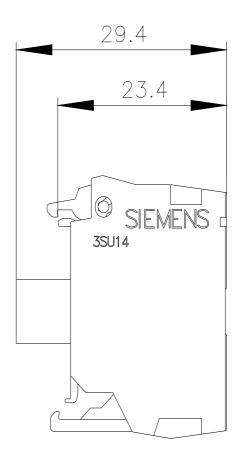
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1401-1BH50-1AA0

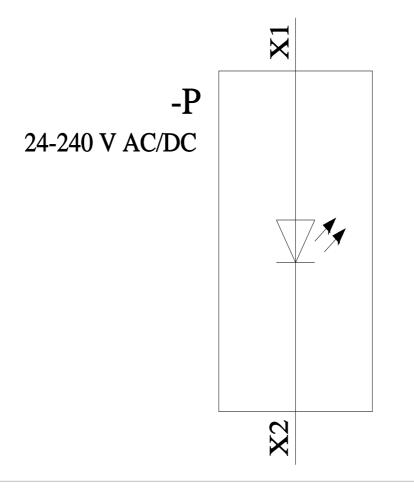
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1BH50-1AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1BH50-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-1BH50-1AA0&lang=en







last modified:

3/9/2022 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3SU14011BH501AA0