SIEMENS

Data sheet

3SU1401-1BH40-1AA0



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

product type designation general technical data product component elight source series resistor No insulation voltage rated value degree of pollution surge voltage resistance rated value for actuation source of the terminal protection class IP of the enclosure of the terminal shock resistance ac. to IEC 80068-2-27 of or railway applications acc. to DIN EN 61373 vibration resistance ac. to IEC 80068-2-6 or or railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance ac. to IEC 81346-2 perating period typical reference code acc. to IEC 81346-2 Sustance Prohibitance (Date) operating voltage at AC - at 50 Hz rated value - at AC - at 50 Hz rated	product brand name	SIRIUS ACT
General technical data product component • diode • lamp transformer • light source • light source • series resistor • series resistor insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage • for actuation surge voltage resistance rated value a AC/DC surge voltage resistance rated value 4 kV consumed current maximum 20 mA protection class IP • of the enclosure • of the larminal IP20 shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B vibration resistance • acc. to IEC 60088-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B perating period typical 100 000 h reference code acc. to IEC 81346-2 p Substance Prohibitance (Date) 01.10.2014 operating voltage • at AC — at 50 Hz rated value — at 60 Hz rated value	product designation	LED module
product component diode diode Yes elamp transformer No elight source Yes series resistor No insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage AC/DC for actuation AC/DC for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 20 mA protection class IP e of the enclosure IP40 e of the terminal IP20 shock resistance acc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms for railway applications acc. to DIN EN 61373 Category 1, Class B vibration resistance acc. to IEC 60068-2-6 10 500 Hz: 5g for railway applications acc. to DIN EN 61373 Category 1, Class B operating period typical 100 000 h reference code acc. to IEC 81346-2 P Substance Prohibitance (Date) 01.10.2014 operating voltage at AC a	product type designation	3SU1
• diode • lamp transformer • lamp transformer • light source • series resistor No insulation voltage rated value degree of pollutulon 3 Jupe of voltage of the operating voltage • for actuation AC/DC surge voltage resistance rated value • for actuation AC/DC surge voltage resistance rated value • for actuation AC/DC surge voltage resistance rated value • of the onclosure • of the enclosure • of the enclosure • of the terminal shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 Category 1, Class B vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) • at AC — at 50 Hz rated value • at CC — at 50 Hz rated value • at DC rated value	General technical data	
• lamp transformer • light source • series resistor Insulation voltage rated value degree of pollution 3 1ype of voltage of the operating voltage • for actuation AC/DC surge voltage resistance rated value consumed current maximum 20 mA protection class IP • of the enclosure • of the terminal P20 shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 Vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B vibration Protection lace • for railway applications acc. to DIN EN 61373 Category 1, Class B operating period typical 100 000 h reference code acc. to IEC 81346-2 Publishance (Date) operating Protibilizance (Date) 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 relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage	product component	
• light source • series resistor No	• diode	Yes
• series resistor insulation voltage rated value degree of pollution 320 V degree of pollution 3 AC/DC • for actuation surge voltage resistance rated value • for actuation AC/DC surge voltage resistance rated value • AK/DC - OF MA - OF	 lamp transformer 	No
insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 20 mA protection class IP • of the enclosure • of the terminal IP20 shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 Category 1, Class B operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage • at AC — at 50 Hz rated value — at 60 Hz rated value — at 60 Hz rated value — at 60 Hz rated value • at DC rated value •	• light source	Yes
degree of pollution type of voltage of the operating voltage • for actuation • for actuation AC/DC • for actuation AC/DC surge voltage resistance rated value 4 kV consumed current maximum 20 mA protection class IP • of the enclosure • of the terminal shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 category 1, Class B operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage • at AC — at 50 Hz rated value — at 60 Hz rated value • at DC rated value • at CC rated value	 series resistor 	No
type of voltage of the operating voltage	insulation voltage rated value	320 V
of ractuation	degree of pollution	3
surge voltage resistance rated value consumed current maximum protection class IP of the enclosure of the terminal shock resistance acc. to IEC 60068-2-27 of or railway applications acc. to DIN EN 61373 vibration resistance acc. to IEC 60068-2-6 of or railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance of railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance of railway applications acc. to DIN EN 61373 category 1, Class B category 1, Class B operating period typical 100 000 h reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage of at AC at 50 Hz rated value at AC at 50 Hz rated value 24 240 V at Corrections of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals	type of voltage of the operating voltage	AC/DC
consumed current maximum protection class IP of the enclosure of the terminal IP20 shock resistance ac. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373 vibration resistance acc. to IEC 60068-2-6 of railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance of railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance of railway applications acc. to DIN EN 61373 category 1, Class B operating period typical 100 000 h reference code acc. to IEC 81346-2 P Substance Prohibitance (Date) operating voltage of AC at 50 Hz rated value at AC at 50 Hz rated value at AC at 50 Hz rated value at DC rated v	for actuation	AC/DC
protection class IP of the enclosure of the terminal shock resistance acc. to IEC 60068-2-27 of or railway applications acc. to DIN EN 61373 vibration resistance acc. to IEC 60068-2-6 of or railway applications acc. to DIN EN 61373 category 1, Class B vibration resistance of acc. to IEC 60068-2-6 of or railway applications acc. to DIN EN 61373 category 1, Class B operating period typical reference code acc. to IEC 81346-2 Pusubstance Prohibitance (Date) operating voltage of at AC at 50 Hz rated value at 60 Hz rated value at DC rated value at DC rated value of the operating voltage relative positive tolerance of the operating voltage control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection	surge voltage resistance rated value	4 kV
of the enclosure of the terminal lP20 shock resistance acc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of railway applications acc. to DIN EN 61373 Category 1, Class B vibration resistance acc. to IEC 60068-2-6 of railway applications acc. to DIN EN 61373 Category 1, Class B operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage of at AC — at 50 Hz rated value — at 60 Hz rated value — at 60 Hz rated value at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage stype of electrical connection screw-type terminals type of electrical connection screw-type terminals	consumed current maximum	20 mA
of the terminal IP20 shock resistance oacc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of railway applications acc. to DIN EN 61373 Category 1, Class B vibration resistance oacc. to IEC 60068-2-6 10 500 Hz: 5g of railway applications acc. to DIN EN 61373 Category 1, Class B operating period typical 100 000 h reference code acc. to IEC 81346-2 P Substance Prohibitance (Date) 01.10.2014 operating voltage oat AC 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 relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals	protection class IP	
shock resistance	 of the enclosure 	IP40
acc. to IEC 60068-2-27 for railway applications acc. to DIN EN 61373 vibration resistance acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value — at DC rated value at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage rough current maximum a AC Connections/ Terminals type of electrical connection screw-type terminals screw-type terminals screw-type terminals category 1, Class B 10 500 Hz: 5g Category 1, Class B 10 500 Hz Category 1,	of the terminal	IP20
for railway applications acc. to DIN EN 61373 vibration resistance	shock resistance	
vibration resistance • acc. to IEC 60068-2-6 • for railway applications acc. to DIN EN 61373 category 1, Class B operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage • at AC — at 50 Hz rated value — at 60 Hz rated value — at DC rated value • at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage inrush current maximum 3 A Connections/ Terminals type of electrical connection 100 500 Hz: 5g Category 1, Class B 10 500 Hz: 5g Category 1, Class B 20 0000000 01.10.2014 02.11.0.2014 02.11.0.2014 02.12.0014 02.12.0014 02.12.0014 03.12.0016 03.12.0016 03.12.0016 04.12.0016 05.12.0016 06.12.0016 06.12.0016 07.	• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value — at DC rated value at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection 100 000 h 100 000 h 24 240 V 24 240 V 24 240 V 20 % control circuit/ Control is grew-type terminals screw-type terminals	 for railway applications acc. to DIN EN 61373 	Category 1, Class B
• for railway applications acc. to DIN EN 61373 operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage • at AC	vibration resistance	
operating period typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage	• acc. to IEC 60068-2-6	10 500 Hz: 5g
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) operating voltage • at AC — at 50 Hz rated value — at 60 Hz rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals	 for railway applications acc. to DIN EN 61373 	Category 1, Class B
Substance Prohibitance (Date) operating voltage • at AC — at 50 Hz rated value — at 60 Hz rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative regative tolerance of the operating voltage inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals	operating period typical	100 000 h
operating voltage • at AC — at 50 Hz rated value — at 60 Hz rated value 24 240 V • at DC rated value 24 240 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals	reference code acc. to IEC 81346-2	P
 at AC at 50 Hz rated value at 60 Hz rated value at DC rated value at DC rated value 24 240 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage 20 % Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals 	Substance Prohibitance (Date)	01.10.2014
- at 50 Hz rated value - at 60 Hz rated value • at DC rated value 24 240 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals	operating voltage	
- at 60 Hz rated value • at DC rated value 24 240 V relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection 24 240 V 20 % 20 % 3 A	• at AC	
● at DC rated value relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection 24 240 V 20 % 3 A	— at 50 Hz rated value	24 240 V
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals	— at 60 Hz rated value	24 240 V
relative negative tolerance of the operating voltage Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals	at DC rated value	24 240 V
Control circuit/ Control inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type terminals	relative positive tolerance of the operating voltage	20 %
inrush current maximum 3 A Connections/ Terminals type of electrical connection screw-type 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	3 A
- 71	Connections/ Terminals	
type of connectable conductor cross-sections	type of electrical connection	screw-type terminals
	type of connectable conductor cross-sections	

General Product Approval		FMC	Declaration of
Certificates/ approvals			
depth	29.4 mm		
width	9.8 mm		
height	33.2 mm		
 of modules and accessories 	Front plate mounting		
fastening method			
nstallation/ mounting/ dimensions			
environmental category during operation acc. to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted)		
during storage	-40 +80 °C		
 during operation 	-25 +70 °C		
ambient temperature			
Ambient conditions			
• IECEx	No		
• ATEX	No		
certificate of suitability			
light intensity	900 1 400 mcd		
color of the light source	green		
type of light source	LED		
Lamp			
tightening torque with screw-type terminals	0.8 0.9 N·m		
at AWG cables	2x (18 14)		
 finely stranded without core end processing 	2x (1,0 1,5 mm²)		
finely stranded with core end processing	2x (0.5 1.5 mm²)		
solid without core end processing	2x (1.0 1.5 mm²)		
 solid with core end processing 	2x (0.5 0.75 mm²)		



General Product Approval









EMC



Conformity

Declaration	of
Conformity	

Test Certificates

Marine / Shipping

UK Declaration of Conformity Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other





Confirmation

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/product?mlfb=3SU1401-1BH40-1AA0

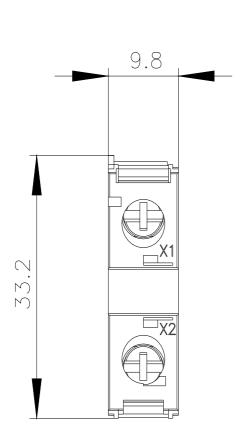
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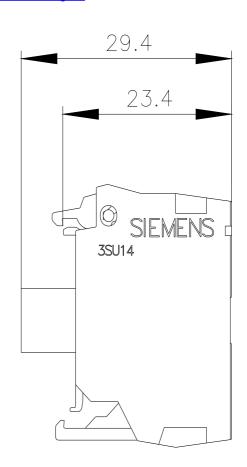
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SU1401-1BH40-1AA0}$

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

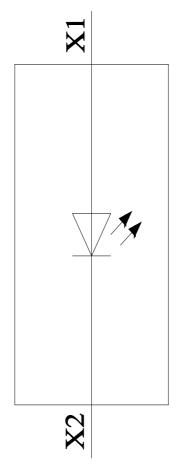
https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1BH40-1AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)





-P 24-240 V AC/DC



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