SIEMENS

Data sheet

3SU1031-3AB42-0AA0-Z X90



Illuminated twin pushbutton, 22 mm, round, plastic with metal front ring, green, red, pushbuttons, flat, Z=50-unit packaging

product trand name SIRUS ACT product design attion Twin pushbuttons design of the product Actuating/signaling element product line Plastic with metal front ring, matt, 22 mm number of command points 1 Actuator		
design of the product Actuating/signaling element product type designation 3SU1 product line Plastic with metal front ring, matt, 22 mm Enclosure 1 Actuator design of the actuating element principle of operation of the actuating element Flat buttons, illuminated principle of operation of the actuating element momentary contact type product extension optional (eght source) • eight source Yes • contact module Yes color of the actuating element green / red material of the actuating element oval Front ring Metal, matt color of the front ring Standard material of the front ring Metal, matt color of the front ring Metal, matt color of the front ring sinusoidal half-wave 15g / 11 ms cotralivay applications according to EN 61373 vibration resistance • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms cotalegony 1, Class B 10 vibration resistance 10 • according to IEC 60068-2-6 10 • for railway applications according to E	product brand name	SIRIUS ACT
product type designation 3SU1 product line Plastic with metal front ring, matt, 22 mm Enclosure number of command points 1 Actuator Flat buttons, illuminated momentary contact type principle of operation of the actuating element Flat buttons, illuminated momentary contact type outcl extension optional Yes * * • light source Yes * * color of the actuating element green / red plastic oval product component front ring Yes * * design of the actuating element oval * * product component front ring Yes * * design of the front ring Standard * * material of the front ring sand gray * * * general technical data * * * * * protection class IP incording to IEC 60068-2-27 * * * * * e for rallway applications according to	product designation	Twin pushbuttons
product line Plastic with metal front ring, matt, 22 mm Enclosure Immber of command points 1 Actuator Flat buttons, illuminated momentary contact type product strension optional Flat buttons, illuminated momentary contact type of of operation of the actuating element momentary contact type momentary contact type out of the actuating element green / red green / red material of the actuating element green / red green / red material of the actuating element plastic shape of the actuating element product component front ring Yes genen / red material of the front ring Standard gray General tochnical data protection nest gray general tochnical data protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance sinusoidal half-wave 15g / 11 ms category 1, Class B vibration resistance 10500 Hz: 5g category 1, Class B operating frequency maximum 3 600 th mechanical service life (switching cycles) typical operating frequency maximum 3 600 thz Se	design of the product	Actuating/signaling element
Enclosure 1 Actuator design of the actuating element Flat buttons, illuminated principle of operation of the actuating element momentary contact type product extension optional Yes • light source Yes • contact module Yes color of the actuating element green / red material of the actuating element plastic shape of the actuating element oval Front ring Yes geoign of the front ring Yes design of the front ring Standard material of the front ring Metal, matt color of the front ring Standard general technical data protection NEMA rating protection Class IP IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance sinusoidal half-wave 15g / 11 ms • for rallway applications according to EN 61373 Category 1, Class B operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 2 000 000 reference code according to EC 81346-2 S Subustance Prohibitan	product type designation	3SU1
number of command points 1 Actuator Image: Command points design of the actuating element Flat buttons, liluminated principle of operation of the actuating element momentary contact type e contact module Yes • contact module Yes color of the actuating element green / red material of the actuating element plastic shape of the actuating element oval Front ring Yes genoral technical data Standard material of the front ring Standard design of the front ring Standard general technical data Protection class IP effort front for to for the ford tring IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance e.according to IEC 60068-2-27 e.according to IEC 60068-2-6 10 500 Hz: 5g category 1, Class B Vibration resistance e.according to IEC 60068-2-6 10 500 Hz: 5g e for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 3 600 1/h mechanical serv	product line	Plastic with metal front ring, matt, 22 mm
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principle of operation of the actuating element momentary contact type product extension optional Yes • contact module Yes color of the actuating element green / red material of the actuating element plastic shape of the actuating element plastic product component front ring Yes design of the front ring Standard material of the front ring Standard color of the front ring IPe6, IP67, IP69(IP69K) deere of protection class IP IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance 0 500 Hz; 5g • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 2 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions -25	Actuator	
product extension optional Yes • light source Yes • contact module Yes color of the actuating element plastic shape of the actuating element oval Front ring Product component front ring product component front ring Standard material of the front ring Standard material of the front ring Standard general technical data IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 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 • ubraing to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B • operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 2 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions -25 +70 °C • during operation -25 +80 °C <th>design of the actuating element</th> <th>Flat buttons, illuminated</th>	design of the actuating element	Flat buttons, illuminated
 light source contact module Yes contact module Yes color of the actuating element green / red material of the actuating element plastic shape of the actuating element oval Front ring product component front ring Yes design of the front ring Standard material of the front ring Metal, matt color of the front ring sand gray General technical data protection class IP IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 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 operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 2 000 000 reference code according to IEC 81348-2 Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature during operation -25 +70 °C during storage 	principle of operation of the actuating element	momentary contact type
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shape of the actuating element oval Front ring Product component front ring product component front ring Standard material of the front ring Metal, matt color of the front ring Metal, matt color of the front ring Standard general technical data Protection class IP protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 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 0 • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 2 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 100/1/2014 Ambient conditions -25 +70 °C ambient temperature -40 +80 °C	color of the actuating element	green / red
Front ring Yes design of the front ring Standard material of the front ring Metal, matt color of the front ring sand gray General technical data IP66, IP67, IP69(IP69K) protection class IP IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 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 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 2 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient temperature -25 +70 °C • during operation -25 +70 °C • during storage -40 +80 °C	material of the actuating element	plastic
product component front ringYesdesign of the front ringStandardmaterial of the front ringMetal, mattcolor of the front ringsand grayGeneral technical dataIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceaccording to IEC 60068-2-27e according to IEC 60068-2-27sinusoidal half-wave 15g / 11 mse for railway applications according to EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5ge for railway applications according to EN 61373Category 1, Class Boperating frequency maximum3 600 1/hmechanical service life (switching cycles) typical2 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient temperature-25 +70 °Ce during operation-25 +80 °C	shape of the actuating element	oval
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color of the front ringsand grayGeneral technical dataprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance	design of the front ring	Standard
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protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock 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 frequency maximum3 600 1/hmechanical service life (switching cycles) typical2 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditions-25 +70 °C• during operation-25 +70 °C• during storage-40 +80 °C	color of the front ring	sand gray
degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 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 • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 2 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient temperature -25 +70 °C • during operation -25 +70 °C • during storage -40 +80 °C	General technical data	
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• 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 frequency maximum3 600 1/hmechanical service life (switching cycles) typical2 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditions-25 +70 °C• during operation-25 +80 °C	shock resistance	
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	 for railway applications according to EN 61373 	Category 1, Class B
• for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 2 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions -25 +70 °C • during storage -40 +80 °C	vibration resistance	
operating frequency maximum3 600 1/hmechanical service life (switching cycles) typical2 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditions10/01/2014ambient temperature • during operation • during storage-25 +70 °C -40 +80 °C	 according to IEC 60068-2-6 	10 500 Hz: 5g
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reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature • during operation -25 +70 °C • during storage -40 +80 °C	operating frequency maximum	3 600 1/h
Substance Prohibitance (Date) 10/01/2014 Ambient conditions -25 +70 °C • during storage -40 +80 °C	mechanical service life (switching cycles) typical	2 000 000
Ambient conditions ambient temperature • during operation • during storage -40 +80 °C	reference code according to IEC 81346-2	S
ambient temperature -25 +70 °C • during storage -40 +80 °C	Substance Prohibitance (Date)	10/01/2014
 during operation during storage -25 +70 °C -40 +80 °C 	Ambient conditions	
• during storage -40 +80 °C	ambient temperature	
	 during operation 	
environmental category during operation according to IEC 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%)	during storage	-40 +80 °C
	environmental category during operation according to IEC	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%)

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Installation/ mounting/ dimensions		
height	57.9 mm	
width	29.9 mm	
shape of the installation opening	round	
mounting diameter	22.3 mm	
positive tolerance of installation diameter	0.4 mm	
mounting height	14.4 mm	
installation width	29.9 mm	
installation depth	25.7 mm	
Certificates/ approvals		
Further information		

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=3SU1031-3AB42-0AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1031-3AB42-0AA0-Z X90

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1031-3AB42-0AA0-Z X90

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1031-3AB42-0AA0-Z X90&lang=en</u>

last modified:

1/26/2022 🖸