SIEMENS

Data sheet

3SU1031-3AB42-0AA0-Z Y12



Illuminated twin pushbutton, 22 mm, round, plastic with metal front ring, green, red, pushbuttons, flat, with laser labeling, lower case

product brand name SIRIUS ACT product designation Twin pushbuttons design of the product Actuating/signaling element product line Plastic with metal front ring, matt, 22 mm Factosure		
design of the product Actuating/signaling element product type designation 35U1 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 (e) (fits source • (or) the actuating element green / red material of the actuating element green / red material of the actuating element oval color of the actuating element oval green / red green / red product component front ring Yes product component front ring Yes grean of the front ring Standard material of the front ring sand gray color of the front ring sand gray corraily toble60068-2-27 sinusoidal half-wave 15g /	product brand name	SIRIUS ACT
product line 3SU1 Product line Plastic with metal front ring, matt, 22 mm Enclosure number of command points Actuator 1 Actuator Flat buttons, illuminated principle of operation of the actuating element Flat buttons, illuminated principle of operation of the actuating element res • light source Yes • contact module Yes color of the actuating element plastic oval marking of the actuating element product component front ring Yes general technical data Yes product component front ring Yes design of the front ring Metal, matt color of the front ring Standard material of the front ring Standard for of the front ring Standard elemeral technical data protection class IP protection class IP IP66, IP67, IP69(IP69K) <th>product designation</th> <th>Twin pushbuttons</th>	product designation	Twin pushbuttons
product line Plastic with metal front ring, matt, 22 mm Immber of command points 1 Actuator design of the actuating element Flat buttons, illuminated product textension optional • ight source Yes • contact module Yes • contact module Yes color of the actuating element green / red plastic green / red material of the actuating element oval customized labeling, text in lower case letters Front ring Yes ves customized labeling, text in lower case letters Front ring Yes gandard material of the front ring Yes olor of the front ring Yes Yes gandard gandard product component front ring Yes Yes Yes Yes design of the front ring Standard material of the front ring Standard protection class IP IP66, IP67, IP69(IP68K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 standard show traits according to EIC 60068-2-27 sinusoidal half-wave 15g / 11 ms category 1, Class B vibration resistance 10 500 Hz: 5g Category 1,	design of the product	Actuating/signaling element
Enclosure number of command points 1 Actuator design of the actuating element 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 plastic shape of the actuating element oval marking of the actuating element oval groduct component front ring Yes groduct component front ring Standard material of the front ring Standard motoring to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms e cocording to IEC 6008-2-6 10 500 Hz: 5g e for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 3600 1/h mechanical service life (switching cycles) typical 2000 000 reference code according to IEC 61348-2 S Subst	product type designation	3SU1
number of command points 1 Actuator	product line	Plastic with metal front ring, matt, 22 mm
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 material of the actuating element customized labeling, text in lower case letters Front ring Product component front ring general technical data Yes general technical data Protection Class IP general technical data IP66, IP67, IP69(IP69K) gene of protection NEMA ra	Enclosure	
design of the actuating element Flat buttons, illuminated principle of operation of the actuating element momentary contact type ight source Yes color of the actuating element green / red material of the actuating element plastic shape of the actuating element oval marking of the actuating element oval marking of the front ring Yes product component front ring Yes design of the front ring Standard material of the front ring Metal, matt color of the front ring Standard material of the front ring sand gray 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 e according to IEC 60068-2-87 Sinusoidal half-wave 15g / 11 ms category 1, Class B Other railway applications according to EN 61373 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) 1	number of command points	1
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 oval marking of the actuating element oval marking of the actuating element oval 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 ight source insusoidal 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 vibration resistance 2 000 000 2 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient condition	Actuator	
product extension optional Yes • contact module Yes • contact module Yes color of the actuating element plastic shape of the actuating element oval marking of the actuating element oval marking of the actuating element oval product component front ring Yes design of the front ring Standard material of the front ring Standard color of the front ring Standard material of the front ring Standard standard Intervaluation degree of protection cl	design of the actuating element	Flat buttons, illuminated
• light source Yes • contact module Yes color of the actuating element green / red material of the actuating element oval marking of the actuating element oval marking of the actuating element oval 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 protection class IP IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3, R, 4, X, 12, 13 shock resistance according to IEC 60068-2-27 e. according to IEC 60068-2-6 10 500 Hz: 5g e. for railway applications according to EN 61373 Category 1, Class B vibration resistance 2000 000 e. 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 EC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient	principle of operation of the actuating element	momentary contact type
• contact module Yes color of the actuating element green / red material of the actuating element oval shape of the actuating element oval marking of the actuating element Customized labeling, text in lower case letters Front ring Yes gesign of the front ring Standard material of the front ring Standard color of the front ring Standard material of the front ring Standard general technical data IP66, IP67, IP69(IP69K) general technical data IP10, IP10, IP10, IP10, IP10, IP10, IP10, IP10, IP10, IP1	product extension optional	
color of the actuating element green / red material of the actuating element plastic shape of the actuating element oval marking of the actuating element customized labeling, text in lower case letters Front ring product component front ring geng of the front ring Standard material of the front ring Standard material of the front ring Standard general technical data protection NEMA rating 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 in stock 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 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions -25 +70 °C	light source	Yes
material of the actuating element plastic shape of the actuating element oval marking of the actuating element Customized labeling, text in lower case letters 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 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 • 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 Prohibitiance (Date) 10/01/2014 Ambient conditions -25 +70 °C	contact module	Yes
shape of the actuating element oval marking of the actuating element Customized labeling, text in lower case letters Front ring Product component front ring gesign of the front ring Standard material of the front ring Metal, matt color of the front ring Metal, matt color of the front ring 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 conditions -25 +70 °C	color of the actuating element	green / red
marking of the actuating element Customized labeling, text in lower case letters 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 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 10 500 Hz: 5g • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B vibration resistance 3 600 1/h • 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 conditions -25 +70 °C <th>material of the actuating element</th> <th>plastic</th>	material of the actuating element	plastic
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 • 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 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature • during operation -25 +70 °C	shape of the actuating element	oval
product component front ringYesdesign of the front ringStandardmaterial of the front ringStandardcolor of the front ringsand grayGeneral technical dataIP66, IP67, IP69(IP69K)protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 15g / 11 ms• 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• 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	marking of the actuating element	Customized labeling, text in lower case letters
Imaterial 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 in 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	Front ring	
material of the front ring Metal, matt color of the front ring sand gray General technical data protection class IP protection class IP IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance inuscidal 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 inuscidal half-wave 15g / 11 ms • 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 conditions -25 +70 °C	product component front ring	Yes
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 resistancesinusoidal half-wave 15g / 11 ms• 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• 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 • during operation-25 +70 °C	design 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 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 10 500 Hz: 5g • 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 conditions -25 +70 °C	material of the front ring	Metal, matt
protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 15g / 11 ms• according to IEC 60068-2-27category 1, Class Bvibration resistance0• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Bvibration resistance0• 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 conditionsambient temperature • during operation-25 +70 °C	color of the front ring	sand gray
degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 15g / 11 ms• 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	General technical data	
shock resistance 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 conditions -25 +70 °C	protection class IP	IP66, IP67, IP69(IP69K)
• 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 temperature • during operation-25 +70 °C	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
• 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	shock resistance	
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 according to IEC 60068-2-6 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 ambient temperature during operation -25 +70 °C 	 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	vibration resistance	
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 ambient temperature • during operation -25 +70 °C	 according to IEC 60068-2-6 	10 500 Hz: 5g
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 ambient temperature • during operation -25 +70 °C	 for railway applications according to EN 61373 	Category 1, Class B
reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions -25 +70 °C	operating frequency maximum	3 600 1/h
Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature • during operation -25 +70 °C	mechanical service life (switching cycles) typical	2 000 000
Ambient conditions ambient temperature • during operation -25 +70 °C	reference code according to IEC 81346-2	S
ambient temperature • during operation -25 +70 °C	Substance Prohibitance (Date)	10/01/2014
• during operation -25 +70 °C	Ambient conditions	
	ambient temperature	
• during storage -40 +80 °C	 during operation 	-25 +70 °C
	during storage	-40 +80 °C

environmental category during operation according to IEC 60721

3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%)

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

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 Y12

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1031-3AB42-0AA0-Z Y12

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1031-3AB42-0AA0-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=3SU1031-3AB42-0AA0-Z Y12&lang=en

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