SIEMENS

Data sheet

3SU1002-2BN10-0AA0-Z X90



Illuminable selector switch, 22 mm, round, plastic, black, Selector switch short, 3 switch positions I-O<II, left latching, momentary contact type on the right, actuating angle $2x45^{\circ}$, 10:30 /12 /13:30, Z=50-unit packaging

product brand name SIRUS ACT product designation Selector switches design of the product Actuating/signaling element product type designation 3SU1 product line Plastic, black, 22 mm Enclosure Image: black, black, 22 mm number of command points 1 Actuator design of the actuating element principle of operation of the actuating element right, left latching/momentary contact, 2x45" (10:30 h/12 h/13:30 h), return from right, left latching product extension optional Yes • light source Yes color of the actuating element plaskic shape of the actuating element plaskic outer diameter of the actuating element 32.3 mm number of switching positions 3 actuating angle 45° • clockwise 45° • anticlockwise 45° • according to IEC 60068-2-27 sinusoidal half-wave 15g / 1			
design of the product Actuating/signaling element product type designation 3SU1 product line Plastic, black, 22 mm Enclosuro 1 Actuator design of the actuating element principle of operation of the actuating element latching/momentary contact, 2x45" (10:30 h/12 h/13:30 h), return from principle of operation of the actuating element latching/momentary contact, 2x45" (10:30 h/12 h/13:30 h), return from product extension optional Yes • color of the actuating element black material of the actuating element plastic shape of the actuating element plastic outer diameter of the actuating element 32.3 mm number of switching positions 3 actuating angle 45" • clockwise 45" product component front ring ylastic design of the front ring plastic plastic black general of the front ring plastic protection class IP IP66, IP67, IP69(IP69K) deregr of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance<	product brand name	SIRIUS ACT	
product type designation 3SU1 product line Plastic, black, 22 mm Enclosure number of command points Actuator 1 Actuator Selector, short principle of operation of the actuating element Iatching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching product extension optional Ves • contact module Yes color of the actuating element black material of the actuating element plastic shape of the actuating element s2.3 mm number of switching positions 3 actuating angle 45° • clockwise 45° • anticlockwise 45° front ring plastic product component front ring plastic color of the front ring black 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 eaccording to IEC 60068-2-27	product designation	Selector switches	
product line Plastic, black, 22 mm Enclosure number of command points 1 Actuator design of the actuating element Tatching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching principle of operation of the actuating element Tatching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching e light source Yes color of the actuating element black material of the actuating element plastic outer diameter of the actuating element 32.3 mm number of switching positions 3 actuating angle - - clockwise 45° + anticlockwise 45° Front ring plastic product component front ring plastic color of the front ring plastic 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 - • according to IEC 60068-2-27 sinusoidal haft-wave 15g / 11 ms • for raliway applications accordi	design of the product	Actuating/signaling element	
Enclosure number of command points 1 Actuator design of the actuating element Iatching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching principle of operation of the actuating element Iatching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching • light source Yes • contact module Yes color of the actuating element black material of the actuating element plastic shape of the actuating element 3.3 actuating angle 45° • lickwise 45° • anticlockwise 45° product component front ring plastic color of the front ring plastic color of the front ring black General tochnical data 1, 2, 3, 3R, 4, 4X, 12, 13 protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance according to IEC 600	product type designation	3SU1	
number of command points 1 Actuator Actuator design of the actuating element Selector, short principle of operation of the actuating element Iatching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching product extension optional Yes • light source Yes color of the actuating element black shape of the actuating element plastic shape of the actuating element glastic outer diameter of the actuating element 32.3 mm number of switching positions 3 actuating angle 45° • lockwise 45° • anticlockwise 45° front ring Yes gedesign of the front ring plastic color of the front ring plastic color of the front ring black General technical data protection class IP of or railway applications according to EN 61373 category 1, Class B • 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	product line	Plastic, black, 22 mm	
Actuator Selector, short design of the actuating element Iatching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching product extension optional isignt source • light source Yes color of the actuating element black material of the actuating element plastic shape of the actuating element glastic outer diameter of the actuating element 32.3 mm number of switching positions 3 actuating angle 45° • anticlockwise 45° for alway applications according to EN 61373 Category 1, Class B protection resistance sinusoidal half-wave 15g / 11 ms • for railway applications according to EN 61373 Category 1, Class B vibration resistance 0 or railway applications according to EN 61373 • for railway applicatio	Enclosure		
design of the actuating element Selector, short principle of operation of the actuating element latching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, source Yes • contact module Yes color of the actuating element plastic shape of the actuating element plastic shape of the actuating element 32.3 mm number of switching positions 3 actuating angle - • clockwise 45° • anticlockwise 45° • for nt ring plastic color of the front ring black General technical data protection class IP • for railway applications according to EN 61373 Category 1, Class B • ibraralway applications according to EN 61373 Category 1, Class B • orailway applications according to EN 61373<	number of command points	1	
principle of operation of the actuating element Iatching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching product extension optional	Actuator		
right, left latching right, left latching product extension optional Yes • light source Yes • contact module Yes color of the actuating element black material of the actuating element plastic shape of the actuating element glastic outer diameter of the actuating element 32.3 mm number of switching positions 3 actuating angle 45° • clockwise 45° Front ring Yes product component front ring yes design of the front ring plastic color of the front ring black General technical data protection class IP • 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 vibration resistance 10 .00 000	design of the actuating element	Selector, short	
• light source Yes • contact module Yes color of the actuating element black material of the actuating element plastic shape of the actuating element Handle outer diameter of the actuating element 32.3 mm number of switching positions 3 actuating angle - • clockwise 45° • anticlockwise 150 • product component front ring black General technical data 11 protection class IP IP66, IP67, IP69(IP69K) degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance isnusoidal	principle of operation of the actuating element		
• contact module Yes color of the actuating element black material of the actuating element plastic shape of the actuating element 32.3 mm number of switching positions 3 actuating angle - • clockwise 45° • anticlockwise 45° • anticlockwise 45° • anticlockwise 45° • anticlockwise 45° color of the front ring Yes design of the front ring plastic color of the front ring plastic color of the front ring black General technical data - 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 • for railway applications according to EN 61373 Category 1, Class B vibration resistance - • for railway applications according to EN	product extension optional		
color of the actuating element black material of the actuating element plastic shape of the actuating element 32.3 mm number of switching positions 3 actuating angle - • clockwise 45° • anticlockwise 45° • anticlockwise 45° Front ring Yes product component front ring standard material of the front ring plastic color of the front ring black 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 • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	light source	Yes	
material of the actuating element plastic shape of the actuating element 32.3 mm number of switching positions 3 actuating angle 45° • clockwise 45° • anticlockwise 45° Front ring Yes product component front ring plastic color of the front ring plastic color of the front ring plastic color of the front ring plastic 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 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 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	contact module	Yes	
shape of the actuating element Handle outer diameter of the actuating element 32.3 mm number of switching positions 3 actuating angle 45° • clockwise 45° • anticlockwise 45° product component front ring Yes design of the front ring plastic color of the front ring plastic color of the front ring black 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 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	color of the actuating element	black	
outer diameter of the actuating element 32.3 mm number of switching positions 3 actuating angle 45° • clockwise 45° • anticlockwise 45° Front ring Yes gesign of the front ring standard material of the front ring plastic color of the front ring black General technical data IP66, IP67, IP69(IP69K) gegree 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 • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	material of the actuating element	plastic	
number of switching positions3actuating angle • clockwise45°• anticlockwise45°• anticlockwise45°Front ringYesproduct component front ringYesdesign of the front ringplasticcolor of the front ringplasticcolor of the front ringblackGeneral technical dataIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance0• according to IEC 60068-2-610• for railway applications according to EN 61373Category 1, Class Boperating frequency maximum1 800 1/hmechanical service life (switching cycles) typical1 000 000	shape of the actuating element	Handle	
actuating angle 45° • clockwise 45° • anticlockwise 45° Front ring Yes product component front ring Yes design of the front ring plastic color of the front ring plastic color of the front ring black 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 • 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 • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	outer diameter of the actuating element	32.3 mm	
• clockwise 45° • anticlockwise 45° Front ring Yes design of the front ring standard material of the front ring plastic color of the front ring black 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 operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	number of switching positions	3	
• anticlockwise 45° Front ring Yes gesign of the front ring standard material of the front ring plastic color of the front ring black 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 • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	actuating angle		
Front ring Yes gesign of the front ring standard material of the front ring plastic color of the front ring black 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 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 inuscoid to IEC 60068-2-6 • according to IEC 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	clockwise	45°	
product component front ringYesdesign of the front ringstandardmaterial of the front ringplasticcolor of the front ringblackGeneral technical dataprotection 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 maximum1 800 1/hmechanical service life (switching cycles) typical1 000 000	anticlockwise	45°	
design of the front ringstandardmaterial of the front ringplasticcolor of the front ringblackGeneral technical dataprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance	Front ring		
material of the front ringplasticcolor of the front ringblackGeneral technical dataprotection 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 maximum1 800 1/hmechanical service life (switching cycles) typical1 000 000	product component front ring	Yes	
color of the front ringblackGeneral technical dataprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceaccording to IEC 60068-2-27• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistanceaccording to IEC 60068-2-6• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating frequency maximum1 800 1/hmechanical service life (switching cycles) typical1 000 000	design of the front ring	standard	
General technical dataprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceaccording to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistanceaccording to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating frequency maximum1 800 1/hmechanical service life (switching cycles) typical1 000 000	material of the front ring	plastic	
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 maximum1 800 1/hmechanical service life (switching cycles) typical1 000 000	color of the front ring	black	
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 maximum1 800 1/hmechanical service life (switching cycles) typical1 000 000	General technical data		
shock resistance • according to IEC 60068-2-27 • for railway applications according to EN 61373 Category 1, Class B vibration resistance • according to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical	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 maximum1 800 1/hmechanical service life (switching cycles) typical1 000 000	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13	
• 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 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	shock resistance		
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 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	 according to IEC 60068-2-27 	sinusoidal 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 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	 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 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	vibration resistance		
operating frequency maximum 1 800 1/h mechanical service life (switching cycles) typical 1 000 000	 according to IEC 60068-2-6 	10 500 Hz: 5g	
mechanical service life (switching cycles) typical 1 000 000	 for railway applications according to EN 61373 	Category 1, Class B	
	operating frequency maximum	1 800 1/h	
reference code according to IEC 81346-2 S	mechanical service life (switching cycles) typical	1 000 000	
	reference code according to IEC 81346-2	S	

Outotenes Durkikitenes (D. t.)	00/04/00/17
Substance Prohibitance (Date)	03/01/2017
Safety related data	
B10 value with high demand rate according to SN 31920	300 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	20 %
 with high demand rate according to SN 31920 	20 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
Ambient conditions	
ambient temperature	
 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	32.3 mm
width	32.3 mm
shape of the installation opening	round
mounting diameter	22.3 mm
positive tolerance of installation diameter	0.4 mm
mounting height	28.8 mm
installation width	32.3 mm
installation depth	25.4 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=3SU1002-2BN10-0AA0-Z X90 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1002-2BN10-0AA0-Z X90	
Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3SU1002-	

https://support.industry.siemens.com/cs/ww/en/ps/3SU1002-2BN10-0AA0-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=3SU1002-2BN10-0AA0-Z X90&lang=en

last modified:

1/26/2022 🖸