SIEMENS

Data sheet

3SU1000-1AD10-0AA0-Z X90



Mushroom pushbutton, 22 mm, round, plastic, black, 30 mm, momentary contact type, Z=50-unit packaging

product brand name SIRUS ACT product designation Mushroom pushbuttons design of the product Actualing/signaling element product type designation 3SU1 product line Plastic, black, 22 mm Enclosure		
design of the product Actuating/signaling element product type designation 3SU1 product line Plastic, black, 22 mm Enclosure 1 Actuator principle of operation of the actuating element product extension optional light source No color of the actuating element black material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 30 mm number of switching positions 2 Front ring Yes general to the front ring plastic color of the front ring plastic color of the front ring plastic color of the front ring plastic product function No e. EMERGENCY OFF function No e. EMERGENCY OFF function No e. according to EC 60068-2-27 sinusoidal haft-wave 15g / 11 ms e. according to EC 60068-2-27 sinusoidal haft-wave 15g / 11 ms e. according to EC 60068-2-6 10 500 Hz: 5g category 1, Class B vibrationes according to EN 61373 vibration resistance a600 1/h e. according to EC 80084-2-6 10 500 Hz: 5g category 1, Class B 3600 1/h	product brand name	SIRIUS ACT
product type designation 3SU1 product line Plastic, black, 22 mm Enclosure number of command points 1 Actuator momentary contact type prioduct standing element momentary contact type product standing element black attration plastic shape of the actuating element plastic shape of the actuating element plastic outer diameter of the actuating element nond outer diameter of the actuating element 30 mm number of switching positions 2 Front ring product standing element product component front ring plastic color of the front ring plastic color of the front ring plastic product function No • EMERGENCY STOP function No 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 eacording to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms eatego	product designation	Mushroom pushbuttons
Product line Plastic, black, 22 mm Immber of command points 1 Actuator momentary contact type principle of operation of the actuating element momentary contact type color of the actuating element black material of the actuating element plastic outer diameter of the actuating element 30 mm number of switching positions 2 Front ring Yes design of the front ring plastic product front ring plastic of the front ring plastic product function No e.EMERGENCY OFF function No e.EMERGENCY OFF function No e.EMERGENCY OFF function No e.EMERGENCY OFF function No e.according to EC 60068-2-27 sinusoidal half-wave 15g / 11 ms e.according to EC 60068-2-6 10 500 Hz: 5g ecacording to EC 60068-2-6 10 500 H	design of the product	Actuating/signaling element
Enclosure 1 Actuator principle of operation of the actuating element momentary contact type product extension optional light source No color of the actuating element black material of the actuating element plastic shape of the actuating element 30 mm number of switching positions 2 Pront ring Yes gesign of the front ring Standard material of the front ring plastic color of the front ring Standard material of the front ring black General tachnical data product function e EMERGENCY OFF function No e EMERGENCY OFF function No e EMERGENCY OFF function No e for railway applications according to EN 61373 category 1, Class B vibration resistance according to EC 60068-2-8 10 500 Hz: 5g 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 10 000 000 reference code according to EC 81346-2 S Substa	product type designation	3SU1
number of command points 1 Actuator principle of operation of the actuating element momentary contact type product extension optional light source No color of the actuating element black material of the actuating element plastic outer diameter of the actuating element 30 mm number of switching positions 2 Front ring Yes design of the front ring glastic color of the front ring plastic product function No • EMERGENCY OFF function No • EMERGENCY STOP function No gere of protection NEMA rating 1. 2. 3. 3R, 4. 4X, 12, 13 shock resistance sinusoidal half-wave 15g / 11 ms category 1, Class B Category 1, Class B vibration resistance 10 000 000 • for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 3 600 1/h	product line	Plastic, black, 22 mm
Actuator momentary contact type product extension optional light source No color of the actuating element black material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 30 mm number of switching positions 2 Front ring Yes design of the front ring plastic color of the front ring black General technical data product function • EMERGENCY STOP function No • EMERGENCY STOP function No • EMERGENCY STOP function No • 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 orbitaric resistance according to IEC 60068-2-6 • for railway applications according to EN 61373 Category 1, Class B	Enclosure	
principle of operation of the actuating element momentary contact type product extension optional light source No color of the actuating element black material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 30 mm number of switching positions 2 Front ring product component front ring product component front ring Standard material of the front ring plastic color of the front ring black general technical data product function e EMERGENCY OFF function No e EMERGENCY STOP function No 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 e for railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 e for railway applications according to EN 61373 Category 1, Class B operating frequency maximum 3600 1/h <t< th=""><th>number of command points</th><th>1</th></t<>	number of command points	1
product extension optional light source No color of the actuating element black material of the actuating element plastic shape of the actuating element 30 mm outer diameter of the actuating element 30 mm number of switching positions 2 Front ring product component front ring Standard material of the front ring plastic color of the front ring product function istandard glastic color of the front ring black General technical data product function No istandard istandard general technical data product function No istandard general technical data product function No istandard general technical data protection class IP IP66, IP67, IP69(IP69K) glastic degree of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance isusoidal half-wave 15g / 11 ms e caccording to IEC 60068-2-6 10 500 Hz: 5g category 1, Class B operating frequency maximum 3 600 1/h mechanical service life (switching c	Actuator	
color of the actuating element black material of the actuating element plastic shape of the actuating element round outer diameter of the actuating positions 2 Front ring Yes design of the front ring Standard material of the front ring plastic color of the front ring black General technical data product function • EMERGENCY OFF function No • EMERGENCY STOP function No 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 e according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms of railway applications according to EN 61373 Category 1, Class B vibration resistance according to IEC 60068-2-6 10 500 Hz: 5g e for railway applications according to EN 61	principle of operation of the actuating element	momentary contact type
material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 30 mm number of switching positions 2 Front ring 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 product function No • EMERGENCY OFF function No • EMERGENCY STOP function No 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 operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	product extension optional light source	No
shape of the actuating element round outer diameter of the actuating element 30 mm number of switching positions 2 Front ring 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 product function product function No • EMERGENCY OFF function No • EMERGENCY STOP function No 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 60068-2-6 10 500 Hz: 5g • for railway applications according to EN 61373 Category 1, Class B vibration resistance 0 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 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 <	color of the actuating element	black
outer diameter of the actuating element30 mmnumber of switching positions2Front ringYesproduct component front ringStandardmaterial of the front ringplasticcolor of the front ringblackGeneral technical dataproduct functionprotuct functionNo• EMERGENCY OFF functionNo• EMERGENCY STOP functionNoprotection 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• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Bvibration resistance3 600 1/h• according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditionsambient temperature	material of the actuating element	plastic
number of switching positions 2 Front ring Yes design of the front ring Standard material of the front ring plastic color of the front ring black General technical data product function product function No • EMERGENCY OFF function No 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 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 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	shape of the actuating element	round
Front ring Product component front ring Yes design of the front ring Standard material of the front ring plastic color of the front ring black General technical data product function • EMERGENCY OFF function No • EMERGENCY STOP function No 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 3 600 1/h mechanical service life (switching cycles) typical 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	outer diameter of the actuating element	30 mm
product component front ring Yes design of the front ring Standard material of the front ring plastic color of the front ring black General technical data black groduct function No • EMERGENCY OFF function No • EMERGENCY STOP function No 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 3 600 1/h mechanical service life (switching cycles) typical 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	number of switching positions	2
design of the front ring Standard material of the front ring plastic color of the front ring black General technical data product function • EMERGENCY OFF function No • EMERGENCY STOP function No 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 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 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	Front ring	
material of the front ring plastic color of the front ring black General technical data	product component front ring	Yes
color of the front ringblackGeneral technical dataproduct function• EMERGENCY OFF functionNo• EMERGENCY STOP functionNoprotection 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• 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) typical10 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditionsambient temperature	design of the front ring	Standard
General technical data product function No • EMERGENCY OFF function No • EMERGENCY STOP function No 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 • 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 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	material of the front ring	plastic
product functionNo• EMERGENCY OFF functionNo• EMERGENCY STOP functionNoprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceisinusoidal 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 resistanceisinusoidal half-wave 15g• 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) typical10 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditionsambient temperature	color of the front ring	black
• EMERGENCY OFF functionNo• EMERGENCY STOP functionNoprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceinuscidal 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 resistanceinuscidal half-wave 15g / 11 ms• 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) typical10 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditionsambient temperature	General technical data	
• EMERGENCY STOP functionNoprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceinusoidal 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 resistanceinuscidal half-wave 15g / 11 ms• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Bvibration resistanceinuscidal half-wave 15g / 11 ms• 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) typical10 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditionsambient temperature	product function	
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 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) typical10 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditionsambient temperature	 EMERGENCY OFF function 	No
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) typical10 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditionsambient temperature	 EMERGENCY STOP function 	No
shock 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) typical10 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditionsambient temperature	protection class IP	IP66, IP67, IP69(IP69K)
 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 a 600 1/h mechanical service life (switching cycles) typical 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions 	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) typical10 000 000reference code according to IEC 81346-2SSubstance Prohibitance (Date)10/01/2014Ambient conditions-ambient temperature-	shock resistance	
vibration resistance in the second secon	 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 3 600 1/h mechanical service life (switching cycles) typical 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	 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 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	vibration resistance	
operating frequency maximum 3 600 1/h mechanical service life (switching cycles) typical 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	 according to IEC 60068-2-6 	10 500 Hz: 5g
mechanical service life (switching cycles) typical 10 000 000 reference code according to IEC 81346-2 S Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature	 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 ambient temperature	operating frequency maximum	3 600 1/h
Substance Prohibitance (Date) 10/01/2014 Ambient conditions ambient temperature		10 000 000
Ambient conditions ambient temperature		
ambient temperature	Substance Prohibitance (Date)	10/01/2014
	Ambient conditions	
• during operation -25 +70 °C	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	30 mm
width	30 mm
shape of the installation opening	round
mounting diameter	22.3 mm
positive tolerance of installation diameter	0.4 mm
mounting height	27.5 mm
installation width	30 mm
installation depth	24.4 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=3SU1000-1AD10-0AA0-Z X90

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-1AD10-0AA0-Z X90

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-1AD10-0AA0-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=3SU1000-1AD10-0AA0-Z X90&lang=en

last modified:

1/27/2022 🖸