## SIEMENS

## Data sheet

## 3SU1000-7BF10-0AA0-Z Y19



Coordinate switch, 22 mm, round, plastic, black, 4 switch positions, momentary contact type, with mechanical interlocking, with laser labeling, inscription or symbol Customer-specific selection with SIRIUS ACT configurator (CIN)

product brand name         SIRUS ACT           product designation         Coordinate switches           design of the product         Actuating/signaling element           product line         Plastic, black, 22 mm           Enclosure	-	
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       with mechanical interlocking         principle of operation of the actuating element       momentary contact type         direction of actuation       horizontal / vertical         product actuating element       Ves         color of the actuating element       black         material of the actuating element       black         outer diameter of the actuating element       So.5 mm         marking of the actuating element       So.5 mm         outer diameter of the actuating element       So.5 mm         marking of the actuating element       So.5 mm         marking of the actuating element       So.5 mm         number of switching positions       4         Maximum deflection angle [*]       30°         Front ring       push-to-unlatch mechanism         product component front ring       Yes         design of the front ring       Plastic         plastic       Diack         Centeral technical data       protection nRMA rating	product brand name	SIRIUS ACT
product type designation         3SU1           product line         Plastic, black, 22 mm           Enclosure         mumber of command points           Actuator         with mechanical interlocking           design of the actuating element         with mechanical interlocking           principle of operation of the actuating element         momentary contact type           direction of actuation         horizontal / vertical           product extension optional         ight source           e contact module         Yes           color of the actuating element         black           shape of the actuating element         sols mm           outer diameter of the actuating element         30.5 mm           marking of the actuating element         Ay inscription, text or symbol, can only be ordered via SIRUS ACT           configuration identification Number (CIN)         type of unlocking device           push-to-unlatch mechanism         number of switching positions           4         Maximum deflection angle [°]         30°           Front ring         Yes           design of the front ring         black           color of the front ring         black           General tochnical data         protection class IP           design of the front ring         black	product designation	Coordinate switches
Product line         Plastic, black, 22 mm           Product line         Plastic, black, 22 mm           number of command points         1           Actuator         momentary contact type           design of the actuating element         momentary contact type           direction of actuation         horizontal / vertical           product extension optional         No           • light source         No           • contact module         Yes           color of the actuating element         plastic           shape of the actuating element         plastic           shape of the actuating element         So mm           marking of the actuating element         Any inscription, text or symbol, can only be ordered via SIRUS ACT           configurator/Configuration identification Number (CIN)         type of unlocking device           push-to-unlatch mechanism         number of switching positions           4         Maximum deflection angle [*]           product component front ring         plastic           color of the front ring         plastic	design of the product	Actuating/signaling element
Enclosure         1           Actuator         design of the actuating element         with mechanical interlocking           principle of operation of the actuating element         momentary contact type           direction of actuation         horizontal / vertical           product extension optional         isign source           o contact module         Yes           color of the actuating element         black           material of the actuating element         plastic           shape of the actuating element         plastic           shape of the actuating element         plastic           marking of the actuating element         20.5 mm           marking of the actuating element         20.5 mm           marking of the actuating element         30.5 mm           marking of the actuating element         30.5 mm           marking of the actuating element         30.5 mm           marking of the ford tring of the actuating element         30.5 mm           number of switching positions         4           Maximum deflection angle [*]         30°           front ring         product component front ring           plastic         color of the front ring           black         General technical data           protection OLES IP         IP65, IP67<	product type designation	3SU1
number of command points       1         Actuator       design of the actuating element       with mechanical interlocking         principle of operation of the actuating element       momentary contact type         direction of actuation       horizontal / vertical         product extension optional       No         • light source       No         • contact module       Yes         color of the actuating element       black         material of the actuating element       plastic         shape of the actuating element       30.5 mm         marking of the actuating element       30.5 mm         marking of the actuating element       configurator/Configuration Identification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle [°]       30°         Front ring       product component front ring         plastic       color of the front ring         design of the front ring       plastic         color of the front ring       plastic         operation helic 60068-2-27       si	product line	Plastic, black, 22 mm
Actuator       design of the actuating element       with mechanical interlocking         principle of operation of the actuating element       momentary contact type         direction of actuation       horizontal / vertical         product extension optional       ight source         • light source       No         • contact module       Yes         color of the actuating element       black         material of the actuating element       plastic         shape of the actuating element       S0.5 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration identification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle [*]       30°         Front ring       plastic         color of the front ring       black         General technical data       protection class IP         protection class IP       IP65, IP67         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wav	Enclosure	
design of the actuating element         with mechanical interlocking           principle of operation of the actuating element         momentary contact type           direction of actuation         horizontal / vertical           product extension optional         ight source           • light source         No           • contact module         Yes           color of the actuating element         black           material of the actuating element         plastic           shape of the actuating element         30.5 mm           marking of the actuating element         Any inscription, text or symbol, can only be ordered via SIRIUS ACT           configurator/Configuration Identification Number (CIN)         type of unlocking device           push-to-unlatch mechanism         number of switching positions           number of switching positions         4           Maximum deflection angle [*]         30°           product component front ring         high           material of the front ring         black           General technical data         plastic           protection class IP         IP65, IP67           design to IEC 60068-2-27         sinusoidal half-wave 15g / 11 ms           vibration resistance         according to IEC 60068-2-6           according to IEC 60068-2-6         10 50	number of command points	1
principle of operation of the actuating element         momentary contact type           direction of actuation         horizontal / vertical           product extension optional         ight source           e light source         No           • contact module         Yes           color of the actuating element         black           material of the actuating element         plastic           shape of the actuating element         State of the actuating element           outer diameter of the actuating element         30.5 mm           marking of the actuating element         Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)           type of unlocking device         push-to-unlatch mechanism           number of switching positions         4           Maximum deflection angle [*]         30°           front ring         Yes           design of the front ring         Yes           design of the front ring         black           Coneral technical data         protection class IP           protection class IP         IP65, IP67           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 60068-2-6         10 500 Hz: 5	Actuator	
direction of actuation       horizontal / vertical         product extension optional       No         • light source       No         • contact module       Yes         color of the actuating element       black         material of the actuating element       plastic         shape of the actuating element       Extended handle         outer diameter of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle ["]       30°         Front ring       Yes         design of the front ring       high         material of the front ring       plastic         color of the front ring       1.2,3,3R,4,4X,12,13         shock resistance       • according to IEC 60068-2-27         • according to IEC 60068-2-5       10 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)	design of the actuating element	with mechanical interlocking
product extension optional       No         • contact module       Yes         color of the actuating element       black         material of the actuating element       plastic         shape of the actuating element       30.5 mm         marking of the actuating element       30.5 mm         marking of the actuating element       configuration (dentification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle [*]       30°         Front ring       product component front ring         product component front ring       Yes         design of the front ring       high         material of the front ring       black         General technical data       grotection NEMA rating         protection REMA 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         operating frequency maximum       2 400 1/h         mechanical service IIfe (switching cycles)       500 000	principle of operation of the actuating element	momentary contact type
• light source       No         • contact module       Yes         color of the actuating element       black         material of the actuating element       plastic         shape of the actuating element       Extended handle         outer diameter of the actuating element       30.5 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle [*]       30°         Front ring       yes         design of the front ring       high         material of the front ring       plastic         color of the front ring       black         General technical data       general technical data         protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       according to IEC 60068-2-27         • according to IEC 60068-2-6       10 500 Hz; 5g         • operating period per direction of actuation typical       500 000	direction of actuation	horizontal / vertical
• contact module         Yes           color of the actuating element         black           material of the actuating element         plastic           shape of the actuating element         So.5 mm           outer diameter of the actuating element         30.5 mm           marking of the actuating element         Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)           type of unlocking device         push-to-unlatch mechanism           number of switching positions         4           Maximum deflection angle [°]         30°           Front ring            product component front ring         Yes           design of the front ring         high           material of the front ring         plastic           color of the front ring         black           General technical data            protection class IP         IP65, IP67           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           vibration resistance         10 500 Hz: 5g           • according to IEC 60068-2-6         10 500 Hz: 5g           operating frequency maximum         <	product extension optional	
color of the actuating element       black         material of the actuating element       plastic         shape of the actuating element       30.5 mm         marking of the actuating element       30.5 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configurator/Configurator Identification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle [°]       30°         front ring       product component front ring         product component front ring       plastic         color of the front ring       plastic         general technical data       general technical data         protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       according to IEC 60068-2-27         • according to IEC 60068-2-6       10 500 Hz; 5g         • according to IEC 60068-2-6       10 500 Hz; 5g         • as operating period per direction of actuation typical       500 000	light source	No
material of the actuating element       plastic         shape of the actuating element       30.5 mm         marking of the actuating element       30.5 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle [°]       30°         Front ring       yes         product component front ring       high         material of the front ring       plastic         color of the front ring       black         General technical data       protection NEMA rating         protection class IP       IP65, IP67         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         vibration resistance       10, 500 Hz; 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000	contact module	Yes
shape of the actuating element       Extended handle         outer diameter of the actuating element       30.5 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle [*]       30°         Front ring       Yes         design of the front ring       high         material of the front ring       plastic         color of the front ring       black         General technical data       IP65, IP67         protection Lass IP       IP65, IP67         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         vibration resistance       10 500 Hz: 5g         • according to IEC 60068-2-6       10 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000	color of the actuating element	black
outer diameter of the actuating element       30.5 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configurator/Configurator Identification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle [°]       30°         Front ring       yes         design of the front ring       Yes         design of the front ring       plastic         color of the front ring       black         General technical data       IP65, IP67         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         vibration resistance       0         • according to IEC 60068-2-6       10 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000	material of the actuating element	plastic
marking of the actuating elementAny inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)type of unlocking devicepush-to-unlatch mechanismnumber of switching positions4Maximum deflection angle [°]30°Front ringYesproduct component front ringYesdesign of the front ringplasticcolor of the front ringblackGeneral technical dataprotection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceeaccording to IEC 60068-2-27e according to IEC 60068-2-610 500 Hz: 5goperating frequency maximum2 400 1/hmechanical service life (switching cycles)500 000	shape of the actuating element	Extended handle
configurator/Configuration Identification Number (CIN)         type of unlocking device       push-to-unlatch mechanism         number of switching positions       4         Maximum deflection angle [°]       30°         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       1, 2, 3, 3R, 4, 4X, 12, 13         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         vibration resistance       0 500 Hz: 5g         • according to IEC 60068-2-6       10 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000	outer diameter of the actuating element	30.5 mm
number of switching positions       4         Maximum deflection angle [°]       30°         Front ring       30°         product component front ring       Yes         design of the front ring       high         material of the front ring       plastic         color of the front ring       black         General technical data       protection class IP         protection class IP       IP65, IP67         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         vibration resistance       in 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000	marking of the actuating element	
Maximum deflection angle [°]       30°         Front ring       Yes         product component front ring       high         material of the front ring       plastic         color of the front ring       black         General technical data       protection class IP         protection class IP       IP65, IP67         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         vibration resistance       in 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000	type of unlocking device	push-to-unlatch mechanism
Front ring       Yes         design of the front ring       high         material of the front ring       plastic         color of the front ring       black         General technical data       protection class IP         protection class IP       IP65, IP67         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sinusoidal half-wave 15g / 11 ms         vibration resistance       isinusoidal half-wave 15g / 11 ms         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000	number of switching positions	4
product component front ringYesdesign of the front ringhighmaterial of the front ringplasticcolor of the front ringblackGeneral technical dataprotection class IPIP65, IP67degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 msvibration resistance• according to IEC 60068-2-610 500 Hz: 5goperating frequency maximum2 400 1/hmechanical service life (switching cycles)500 000	Maximum deflection angle [°]	30°
design of the front ring       high         material of the front ring       plastic         color of the front ring       black         General technical data       protection class IP         protection class IP       IP65, IP67         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance	Front ring	
material of the front ringplasticcolor of the front ringblackGeneral technical dataIP65, IP67protection class IPIP65, IP67degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 15g / 11 msvibration resistancein 200 Hz: 5goperating to IEC 60068-2-610 500 Hz: 5goperating frequency maximum2 400 1/hmechanical service life (switching cycles)500 000	product component front ring	Yes
color of the front ringblackGeneral technical dataIP65, IP67protection class IPIP65, IP67degree 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 msvibration resistance0• according to IEC 60068-2-610 500 Hz: 5g• operating frequency maximum2 400 1/hmechanical service life (switching cycles)500 000	design of the front ring	high
General technical data         protection class IP         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       1, 2, 3, 3R, 4, 4X, 12, 13         • according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms         vibration resistance       0 500 Hz: 5g         • according to IEC 60068-2-6       10 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000	material of the front ring	plastic
protection class IPIP65, IP67degree 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 msvibration resistance10 500 Hz: 5g• according to IEC 60068-2-610 500 Hz: 5g• operating frequency maximum2 400 1/hmechanical service life (switching cycles)500 000	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 msvibration resistance10 500 Hz: 5g• according to IEC 60068-2-610 500 Hz: 5g• operating frequency maximum2 400 1/hmechanical service life (switching cycles)500 000	General technical data	
shock resistance         • according to IEC 60068-2-27         sinusoidal half-wave 15g / 11 ms         vibration resistance         • according to IEC 60068-2-6         10 500 Hz: 5g         operating frequency maximum         2 400 1/h         mechanical service life (switching cycles)         • as operating period per direction of actuation typical	protection class IP	IP65, IP67
• according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms         vibration resistance       10 500 Hz: 5g         • according to IEC 60068-2-6       10 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000         • as operating period per direction of actuation typical       500 000	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
vibration resistance       0         • according to IEC 60068-2-6       10 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000         • as operating period per direction of actuation typical       500 000	shock resistance	
• according to IEC 60068-2-6       10 500 Hz: 5g         operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)	<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms
operating frequency maximum       2 400 1/h         mechanical service life (switching cycles)       500 000         • as operating period per direction of actuation typical       500 000	vibration resistance	
mechanical service life (switching cycles)         • as operating period per direction of actuation typical         500 000	according to IEC 60068-2-6	10 500 Hz: 5g
as operating period per direction of actuation typical     500 000	operating frequency maximum	2 400 1/h
	mechanical service life (switching cycles)	
reference code according to IEC 81346-2 S	<ul> <li>as operating period per direction of actuation typical</li> </ul>	500 000
	reference code according to IEC 81346-2	S

Substance Brakibitance (Date)	40/04/0044	
Substance Prohibitance (Date)	10/01/2014	
Safety related data		
B10 value with high demand rate according to SN 31920	250 000	
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	20 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	20 %	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
Ambient conditions		
ambient temperature		
<ul> <li>during operation</li> </ul>	-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	30.5 mm	
width	30.5 mm	
shape of the installation opening	round	
mounting diameter	22.3 mm	
positive tolerance of installation diameter	0.4 mm	
mounting height	75.6 mm	
installation width	30.5 mm	
installation depth	25.5 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=3SU1000-7BF10-0AA0-Z Y19 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-7BF10-0AA0-Z Y19		
Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-		

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1000-7BF10-0AA0-Z Y19&lang=en

last modified:

1/27/2022 🖸