## SIEMENS

## Data sheet

## 3SU1002-2BP50-0AA0-Z Y11



Selector switch, illuminable, 22 mm, round, plastic, blue, selector switch, short, 3 switch positions I>O<II, momentary contact on the left, latching on the right, actuating angle  $2x45^{\circ}$ , 10:30h/12h/13:30h, with laser labeling, upper case

product brand name         SIRIUS ACT           product designation         Selector switches           design of the product         Actuating/ignaling element           product line         Plastic, black, 22 mm           number of command points         1           Actuator         design of the actuating element           principle of operation of the actuating element         Selector, short           principle of operation of the actuating element         momentary contact/latching, 2x45" (10:30 h/12 h/13:30 h), return from           e contact module         Yes           • contact module         Yes           ocot of the actuating element         plastic           shape of the actuating element         plastic           outer diameter of the actuating element         Any inscription, text in upper case           number of switching positions         3           actuating angle         45°           • clockwise         45°           Front ring         plastic           product component front ring         plastic           black         gerege of protection NEMA rating           General technical data         product component front ring           plastic         black           General technical data         protection class IP			
design of the product         Actuating/signaling element           product type designation         3SU1           product line         Plastic, black, 22 mm           Enclosure         1           Actuator         design of the actuating element           principle of operation of the actuating element         Selector, short           principle of operation of the actuating element         momentary contact/latching, 2x45° (10:30 h/12 h/13:30 h), return from           ight source         Yes           • contact module         Yes           color of the actuating element         plastic           material of the actuating element         plastic           shape of the actuating element         plastic           outer diameter of the actuating element         glastic           shape of the actuating element         plastic           outer diameter of the actuating element         Any inscription, text in upper case           number of switching positions         3           actuating angle         45°           • clockwise         45°           • anticlockwise         45°           product component front ring         plastic           color of the front ring         plastic           design of the front ring         black <td< th=""><th>product brand name</th><th>SIRIUS ACT</th></td<>	product brand name	SIRIUS ACT	
product type designation         3SU1           product line         Plastic, black, 22 mm           Enclosure         number of command points           number of command points         1           Actuator         Selector, short           design of the actuating element         Selector, short           principle of operation of the actuating element         momentary contact/latching, 2x45° (10:30 h/12 h/13:30 h), return from left, right latching           product extension optional         Yes           • light source         Yes           • contact module         Yes           color of the actuating element         blue           material of the actuating element         plastic           shape of the actuating element         32.3 mm           marking of the actuating element         Any inscription, text in upper case           number of switching positions         3           actuating angle         45°           • anticlockwise         45°           Front ring         Yes           product component front ring         plastic           color of the front ring         plastic           color of the front ring         black           General technical data         product component front ring           protection NEMA rating<	product designation	Selector switches	
product line         Plastic, black, 22 mm           Enclosure         number of command points         1           Actuator         design of the actuating element         momentary contact/latching, 2x45° (10:30 h/12 h/13:30 h), return from left, right latching           principle of operation of the actuating element         momentary contact/latching, 2x45° (10:30 h/12 h/13:30 h), return from left, right latching           product extension optional         Yes           • light source         Yes           • contact module         Yes           color of the actuating element         blue           material of the actuating element         plastic           outer diameter of the actuating element         Any inscription, text in upper case           number of switching positions         3           actuating angle         45°           • lockwise         45°           • anticlockwise         45°           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         Selector, short           principle of operation of the actuating element         momentary contact/latching, 2x45° (10:30 h/12 h/13:30 h), return from           ielit, right latching         product extension optional         ielit, right latching           • light source         Yes         sontact/latching, 2x45° (10:30 h/12 h/13:30 h), return from           ielit, source         Yes         sontact/latching, 2x45° (10:30 h/12 h/13:30 h), return from           ielit, right latching         Pres         sontact/latching, 2x45° (10:30 h/12 h/13:30 h), return from           ielit, right latching         Yes         sontact/latching, 2x45° (10:30 h/12 h/13:30 h), return from           ielit, right latching         Yes         sontact/latching, 2x45° (10:30 h/12 h/13:30 h), return from           material of the actuating element         blue         Maintern           material of the actuating element         23:3 ml         and           otter diameter of the actuating element         Ary inscription, text in upper case         number of switching positions           actuating angle         .         .         .         .           • clockwise         45°         .         .           fort ring         product component front ring         plastic	product type designation	3SU1	
number of command points       1         Actuator       design of the actuating element       Selector, short         principle of operation of the actuating element       momentary contact/latching, 2x45° (10:30 h/12 h/13:30 h), return from left, right latching         product extension optional       ight source       Yes         e contact module       Yes         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       glastic         outer diameter of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text in upper case         number of switching positions       3         actuating angle       45°         e clockwise       45°         e anticlockwise       45°         product component front ring       plastic         olor of the front ring       plastic         color of the front ring       plastic         design of the front ring       plastic         operati technical data <td< th=""><th>product line</th><th>Plastic, black, 22 mm</th></td<>	product line	Plastic, black, 22 mm	
Actuator       Selector, short         design of the actuating element       Selector, short         principle of operation of the actuating element       Ide, right latching, 2x45° (10:30 h/12 h/13:30 h), return from left, right latching         product extension optional       • light source         • light source       Yes         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       glastic         outer diameter of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text in upper case         number of switching positions       3         actuating angle       45°         • clockwise       45°         e anticlockwise       45°         product component front ring       yes         design of the front ring       plastic         color of the front ring       black         General tochnical data       protection class IP         protection class IP       IP66, IP67, IP69(IP69K)         degree of protection NEMA rating       1, 2, 3, 3R, 4, X, 12, 13         shock resistance       isuusoidal half-wave 15g / 11 ms         • for railway applications according to IEC 60068-2-6       10 500 Hz; 5g	Enclosure		
design of the actuating element       Selector, short         principle of operation of the actuating element       momentary contact/latching, 2x45" (10:30 h/12 h/13:30 h), return from left, right latching         product extension optional       • light source         • contact module       Yes         color of the actuating element       plastic         shape of the actuating element       plastic         shape of the actuating element       32.3 mm         markrial of the actuating element       Any inscription, text in upper case         number of switching positions       3         actuating angle       45°         • clockwise       45°         • anticlockwise       45° <b>Front</b> ring       plastic         product component front ring       Yes         design 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         • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       0       category 1, Class B         • operarailway applications according to EN 61373	number of command points	1	
principle of operation of the actuating element         momentary contact/latching, 2x45° (10:30 h/12 h/13:30 h), return from left, right latching           product extension optional         ieft, right latching           • light source         Yes           • contact module         Yes           • contact module         Yes           color of the actuating element         blue           material of the actuating element         plastic           shape of the actuating element         Any inscription, text in upper case           number of switching positions         3           actuating angle         45°           • clockwise         45°           • anticlockwise         45°           front ring         plastic           otor of the front ring         yles           design of the 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 class IP           e according to IEC 60068-2-27         sinusoidal half-wave 15g / 11 ms           e for railway applications according to EN 61373         Category 1, Class B           vibration resistance         according to EC 60068-2-6         <	Actuator		
Idef, right fatching     Idef, right fatching       product extension optional     Yes       • contact module     Yes       color of the actuating element     blue       material of the actuating element     plastic       shape of the actuating element     glastic       outer diameter of the actuating element     32.3 mm       marking of the actuating element     Any inscription, text in upper case       number of switching positions     3       actuating angle     45°       • clockwise     45°       Front ring     Yes       product component front ring     plastic       color of the front ring     plack       General technical data     protection NEMA rating       protection class IP     IP66, IP67, IP69(IP69K)       degree of protection REM rating     th 1373	design of the actuating element	Selector, short	
• light source       Yes         • contact module       Yes         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       Handle         outer diameter of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text in upper case         number of switching positions       3         actuating angle       •         • clockwise       45°         • anticlockwise       45°         • actuating 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 h	principle of operation of the actuating element		
• contact module       Yes         color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       32.3 mm         outer diameter of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text in upper case         number of switching positions       3         actuating angle       -         • clockwise       45°         • anticlockwise       45° <b>Front ring</b> yes         product component front ring       yes         design of the front ring       plastic         color of the front ring       black         General technical data       tractuating element         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       inusidal half-wave 15g / 1	product extension optional		
color of the actuating element       blue         material of the actuating element       plastic         shape of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text in upper case         number of switching positions       3         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         • actuating angle       istandard         • protection class IP       IP66, IP67, IP69(IP69K)         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       isusoidal half-wave 15g / 11 ms         • for railway applications according to EN 61373       Category	<ul> <li>light source</li> </ul>	Yes	
material of the actuating element       plastic         shape of the actuating element       32.3 mm         marking of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text in upper case         number of switching positions       3         actuating angle       -         • clockwise       45°         • anticlockwise       45°         • according 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       sinu	contact module	Yes	
shape of the actuating element       Handle         outer diameter of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text in upper case         number of switching positions       3         actuating angle       45°         • clockwise       45°         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       Protection NEMA rating         protection on 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       1 800 1/h	color of the actuating element	blue	
outer diameter of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text in upper case         number of switching positions       3         actuating angle       45°         • 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       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       •         • for railway applications according to EN 61373       Category 1, Class B         operating frequency maximum       1 800 1/h	material of the actuating element	plastic	
marking of the actuating elementAny inscription, text in upper casenumber of switching positions3actuating angle3• clockwise45°• anticlockwise45°Front ringYesproduct component front ringYesdesign of the front ringplasticcolor of the front ringplasticcolor of the front ringblackGeneral 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• 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 maximum1 800 1/h	shape of the actuating element	Handle	
number of switching positions       3         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 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	outer diameter of the actuating element	32.3 mm	
actuating angle       45°         • 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         • for railway applications according to EN 61373       Category 1, Class B         operating frequency maximum       1 800 1/h	marking of the actuating element	Any inscription, text in upper case	
• 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	number of switching positions	3	
• anticlockwise       45°         Front ring       Yes         product component front ring       Standard         design 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         • 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	actuating angle		
Front ringYesproduct component front ringstandarddesign of the front ringstandardmaterial of the front ringplasticcolor of the front ringblackGeneral technical dataprotection class IPprotection class IPIP66, 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 resistance• according to IEC 60068-2-6• for railway applications according to EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	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/h	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• 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/h	Front ring		
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color of the front ringblackGeneral 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 resistanceI0 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	design of the front ring	standard	
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       0       0       500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B       10       500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B       1       800 1/h	material of the front ring	plastic	
protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistanceinusoidal half-wave 15g / 11 ms• according to IEC 60068-2-27inusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistanceinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class B• for railway applications according to EN 61373Category 1, Class B• operating frequency maximum1 800 1/h	color of the front ring	black	
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 maximum1 800 1/h	General technical data		
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	protection class IP	IP66, IP67, IP69(IP69K)	
e according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms     e for railway applications according to EN 61373 Category 1, Class B     vibration resistance         e according to IEC 60068-2-6 10 500 Hz: 5g         e for railway applications according to EN 61373 Category 1, Class B     operating frequency maximum 1 800 1/h	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13	
for railway applications according to EN 61373 Category 1, Class B      ibration resistance         e according to IEC 60068-2-6         for railway applications according to EN 61373 Category 1, Class B      operating frequency maximum 1 800 1/h	shock resistance		
vibration resistance <ul> <li>according to IEC 60068-2-6</li> <li>for railway applications according to EN 61373</li> <li>Category 1, Class B</li> </ul> operating frequency maximum       1 800 1/h	<ul> <li>according to IEC 60068-2-27</li> </ul>	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	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B	
for railway applications according to EN 61373     Category 1, Class B     1 800 1/h	vibration resistance		
operating frequency maximum 1 800 1/h	<ul> <li>according to IEC 60068-2-6</li> </ul>	10 500 Hz: 5g	
	<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B	
mechanical service life (switching cycles) typical 1 000 000	operating frequency maximum	1 800 1/h	
	mechanical service life (switching cycles) typical	1 000 000	

reference code according to IEC 81346-2	S
Substance Prohibitance (Date)	10/01/2014
Safety related data	
B10 value with high demand rate according to SN 31920	300 000
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	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=3SU1002-2BP50-0AA0-Z Y11 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1002-2BP50-0AA0-Z Y11 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3SU1002-2BP50-0AA0-Z Y11 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1002-2BP50-0AA0-Z Y11⟨=en	

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