## SIEMENS

## Data sheet

## 3SU1002-2BM60-0AA0

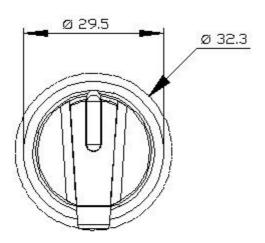


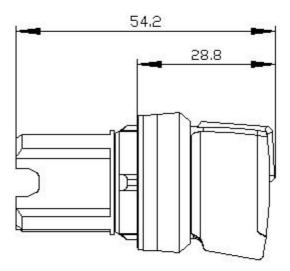
Selector switch, illuminable, 22 mm, round, plastic, white, selector switch, short, 3 switch positions I>O<II, momentary contact type, actuating angle  $2x45^{\circ}$ , 10:30h/12h/13:30h

product brand nameSIRUS ACTproduct designationSelector switchesdesign of the productActuating'signaling elementproduct type designation3SU1product linePlastic, black, 22 mmEnclosure					
design of the product     Actuating/signaling element       product type designation     3SU1       product line     Plastic, black, 22 mm       Enclosure     I       number of command points     1       Actuator     design of the actuating element     momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides       product extension optional     Yes       • light source     Yes       • color of the actuating element     white       material of the actuating element     yes       outer diameter of the actuating element     glastic       shape of the actuating element     glastic       outer diameter of the actuating element     3.3       number of switching positions     3       actuating angle     -       • 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     Yes       design of the front ring     plastic       protection class IP     Ple6t, IP67, IP69(IP69K)       degree of protection NEMA rating     1, 2, 3, 3R, 4, 4X, 12, 13       shock resistance     -       • acc. to IEC 60068-2-27     Sinusoidal half-wave 50g / 11 ms	product brand name	SIRIUS ACT			
product type designation         3SU1           product line         Plastic, black, 22 mm           Enclosure         Inumber of command points         1           Actuator         Selector, short         momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides           principle of operation of the actuating element         momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides           product extension optional         Yes         Contact module         Yes           color of the actuating element         white         Plastic         Shape of the actuating element         Plastic           shape of the actuating element         plastic         shape of the actuating element         Static         Static           outer diameter of the actuating element         static         45°         Static         Static           outer diameter of the actuating element         static         45°         Static         Static           outer diameter of the actuating element         static         Static         Static         Static           outer diameter of the actuating element         static         Static         Static         Static           outer diameter of the actuating element         static         Static         Static         Static         Static         Static         Static	product designation	Selector switches			
product line         Plastic, black, 22 mm           Enclosure         I           number of command points         1           Actuator         design of the actuating element         Selector, short           principle of operation of the actuating element         momentary contact, 2x45" (10:30 h/12 h/13:30 h), return on both sides           product extension optional         Yes            • light source         Yes            • contact module         Yes            color of the actuating element         white            material of the actuating element         plastic            outer diameter of the actuating element         32.3 mm            outer diameter of the factuating el	design of the product	Actuating/signaling element			
Enclosure           number of command points         1           Actuator	product type designation	3SU1			
number of command points       1         Actuator       Gesign of the actuating element       Selector, short         principle of operation of the actuating element       momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides         product extension optional       Ves         • 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       45°         • clockwise       45°         • anticlockwise       45°         • anticlockwise       45°         color of the 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       plastic         color of the front ring       tandard         material of the front ring       clockwise         e action LEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         e acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         e for railway applications acc. to DIN EN 61373       Category 1, Class B	product line	Plastic, black, 22 mm			
Actuator       Selector, short         design of the actuating element       momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides         product extension optional       ight source         e light source       Yes         contact module       Yes         color of the actuating element       white         material of the actuating element       plastic         shape of the actuating element       Badic         outer diameter of the actuating element       32.3 mm         number of switching positions       3         actuating angle       45°         e clockwise       45°         e anticlockwise       45°         fort fing       ylastic         product component front ring       glastic         color of the front ring       ylastic         color of the front ring       black         General technical data       protection NEMA rating         protection class IP       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       actus of LC 60068-2-67         e act. to IEC 60068-2-77       Sinusoidal half-wave 50g / 11 ms         e for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         e for railway app	Enclosure				
design of the actuating element     Selector, short       principle of operation of the actuating element     momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides       product extension optional     • light source       • light source     Yes       color of the actuating element     white       material of the actuating element     plastic       shape of the actuating element     32.3 mm       outer diameter of the actuating element     32.3 mm       outer diameter of the actuating element     45°       • clockwise     45°       • anticlockwise     45°       • anticlockwise     45°       Front ring     yes       general technical data     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     (1, 2, 3, 3R, 4, 4X, 12, 13       shock resistance     sinusoidal half-wave 50g / 11 ms       • act. to IEC 60068-2-87     Sinusoidal half-wave 50g / 11 ms       • for railway applications acc. to DIN EN 61373     Category 1, Class B       vibration resistance     in 500 Hz; 5g       • for railway applications acc. to DIN EN 61373     Category 1, Class B	number of command points	1			
principle of operation of the actuating element         momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides           product extension optional         Yes           • light source         Yes           • contact module         Yes           color of the actuating element         white           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°           entarial of the front ring         ylastic           material of the front ring         plastic           color of the front ring         black           General technical data         -           protection NEMA rating         -           otick resistance         -           • acc. to IEC 60068-2-27         Sinusoidal half-wave 50g / 11 ms           • for railway applications acc. to DIN EN 61373         Category 1, Class B           vibration resistance         -           • acc. to IEC 60068-2-6         10 500 Hz: 5g           • for railw	Actuator				
product extension optional <ul> <li>light source</li> <li>contact module</li> <li>Yes</li> <li>color of the actuating element</li> <li>plastic</li> <li>shape of the actuating element</li> <li>plastic</li> <li>shape of the actuating element</li> <li>glastic</li> <li>clockwise</li> <li>actuating angle</li> <li>clockwise</li> <li>dsöglastic</li> <li>actuating angle</li> <li>clockwise</li> <li>atticlockwise</li> <li>45°</li> <li>anticlockwise</li> <li>45°</li> <li>anticlockwise</li> <li>atticlockwise</li> <li>standard</li> <li>material of the front ring</li> <li>plastic</li> <li>clock of the front ring<td>design of the actuating element</td><td>Selector, short</td></li></ul>	design of the actuating element	Selector, short			
• light sourceYes• contact moduleYescolor of the actuating elementwhitematerial of the actuating elementPlasticshape of the actuating elementHandleouter diameter of the actuating element32.3 mmnumber of switching positions3actuating angle-• clockwise45°• anticlockwise45°• anticlockwise45°• anticlockwisestandardproduct component front ringYesdesign of the front ringstandardmaterial of the front ringplasticcolor of the front ringplasticdesign of the front ringplasticdesign of the front ringplasticdesign of the front ringplasticcolor of the front ringplasticdesign of the front ringplasticblock	principle of operation of the actuating element	momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides			
• contact moduleYescolor of the actuating elementwhitematerial of the actuating elementplasticshape of the actuating element32.3 mmouter diameter of the actuating element32.3 mmnumber of switching positions3actuating angle-• clockwise45°• anticlockwise45°• anticlockwise19• atticlockwise19• atticlockwise19• atticlockwise1,2,3,3R,4,4X,12,13• atticlockon NEMA rating1,2,3,3R,4,4X,12,13• atc. to IEC 60068-2-27Sinusoidal half-wave 50g/11 ms• atc. to IEC 60068-2-6710500 Hz: 5g• atc. to IEC 60068-2-6610500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B• operating frequency maximum1 800 1/h	product extension optional				
color of the actuating elementwhitematerial of the actuating elementplasticshape of the actuating element32.3 mmnumber of switching positions3actuating angle clockwise45°- anticlockwise45°- anticlockwise10500 Hz: Sg- anticlockwise20068-2-6- anticlockwise10500 Hz: Sg- and the Coulose-2-610500 Hz: Sg- and the Coulose-2-61050	light source	Yes			
material of the actuating elementplasticshape of the actuating element32.3 mmouter diameter of the actuating element32.3 mmnumber of switching positions3actuating angle-• clockwise45°• anticlockwise45°actuating of the front ringYesproduct component front ringYesdesign of the front ringplasticcolor of the front ringplasticcolor of the front ringplasticcolor of the front ringplasticdesign of the front ringplasticcolor of the front ringplasticdegree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance-• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance-• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	contact module	Yes			
shape of the actuating elementHandleouter diameter of the actuating element32.3 mmnumber of switching positions3actuating angle3• clockwise45°• anticlockwise45°• anticlockwise45°product component front ringYesdesign of the front ringplasticcolor of the front ringplasticcolor of the front ringblackGeneral technical data1, 2, 3, 3R, 4, 4X, 12, 13protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	color of the actuating element	white			
outer diameter of the actuating element32.3 mmnumber of switching positions3actuating angle45°• clockwise45°• anticlockwise45°Front ringYesproduct component front ringYesdesign of the front ringplasticcolor of the front ringblackGeneral technical dataIP66, IP67, IP69(IP69K)degre of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistancesinusoidal half-wave 50g / 11 mse acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 msvibration resistance10 500 Hz: 5g• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	material of the actuating element	plastic			
number of switching positions3actuating angle45°• clockwise45°• anticlockwise45°Front ringYesproduct component front ringYesdesign of the front ringstandardmaterial of the front ringplasticcolor of the front ringblackGeneral technical data1, 2, 3, 3R, 4, 4X, 12, 13protection class IPIP66, IP67, IP69(IP69K)degre of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistanceSinusoidal half-wave 50g / 11 ms• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance-• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	shape of the actuating element	Handle			
actuating angle       45°         • clockwise       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          • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance          • acc. to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance          • for railway applications acc. to DIN EN 61373       Category 1, Class B         operating frequency maximum       1 800 1/h	outer diameter of the actuating element	32.3 mm			
• clockwise45°• anticlockwise45°Front ringFront ringproduct component front ringYesdesign of the front ringstandardmaterial 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 resistanceinusoidal half-wave 50g / 11 ms• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceinus 500 Hz: 5g• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceinus 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceinus 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceinus 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B• for railway applications acc. to DIN EN 61373Category 1, Class B• for railway applications acc. to DIN EN 61373Category 1, Class B• for railway applications acc. to DIN EN 61373Category 1, Class B• for railway applications acc. to DIN EN 61373Category 1, Class B• for railway applications acc. to DIN EN 61373Category 1, Class B• for railway applications acc. to DIN EN 61373Category 1, Class B• for railway	number of switching positions	3			
• anticlockwise45°Front ringYesproduct 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 resistancesinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistancein 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	actuating angle				
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 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B	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 resistancesinusoidal half-wave 50g / 11 msof or railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance10 500 Hz: 5goperating 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 resistanceSinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceI0 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	Front ring				
material 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 50g / 11 ms• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceI0 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	product component front ring	Yes			
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 resistanceIn acc. to IEC 60068-2-27e acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 msof or railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceIn acc. to IEC 60068-2-6e acc. to IEC 60068-2-6Category 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       -         • acc. to IEC 60068-2-27       Sinusoidal half-wave 50g / 11 ms         • for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       -         • acc. to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B         operating frequency maximum       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 resistance• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	color of the front ring	black			
degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance	General technical data				
shock resistanceSinusoidal half-wave 50g / 11 ms• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistanceI0 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B• operating frequency maximum1 800 1/h	protection class IP	IP66, IP67, IP69(IP69K)			
• acc. to IEC 60068-2-27Sinusoidal half-wave 50g / 11 ms• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13			
• for railway applications acc. to DIN EN 61373       Category 1, Class B         vibration resistance       -         • acc. to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications acc. to DIN EN 61373       Category 1, Class B         operating frequency maximum       1 800 1/h	shock resistance				
vibration resistance     10 500 Hz: 5g       • acc. to IEC 60068-2-6     10 500 Hz: 5g       • for railway applications acc. to DIN EN 61373     Category 1, Class B       operating frequency maximum     1 800 1/h	• acc. to IEC 60068-2-27	Sinusoidal half-wave 50g / 11 ms			
• acc. to IEC 60068-2-6         10 500 Hz: 5g           • for railway applications acc. to DIN EN 61373         Category 1, Class B           operating frequency maximum         1 800 1/h	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B			
for railway applications acc. to DIN EN 61373     Category 1, Class B     1 800 1/h	vibration resistance				
operating frequency maximum 1 800 1/h	• acc. to IEC 60068-2-6	10 500 Hz: 5g			
	<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B			
mechanical service life (operating cycles) typical 1 000 000	operating frequency maximum	1 800 1/h			
	mechanical service life (operating cycles) typical	1 000 000			

reference code acc.	to IEC 81346-2		S				
Substance Prohibitar	ice (Date)		01.10.2014 00:00:00				
Safety related data							
B10 value with high c	lemand rate acc. to SN 3	31920	300 000				
proportion of dange	rous failures						
<ul> <li>with low demar</li> </ul>	nd rate acc. to SN 31920		20 %				
<ul> <li>with high dema</li> </ul>	nd rate acc. to SN 31920	D	20 %				
failure rate [FIT] with	low demand rate acc. to	SN 31920	100 FIT				
T1 value for proof te IEC 61508	est interval or service li	fe acc. to	20 у				
Ambient conditions							
ambient temperatur	е						
<ul> <li>during operatio</li> </ul>	n		-25 +70 °C				
<ul> <li>during storage</li> </ul>			-40 +80 °C				
environmental catego 60721	bry during operation acc.	to IEC	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %)				
Installation/ mounting	g/ dimensions						
height			32.3 mm				
width			32.3 mm				
shape of the installa	ation opening		round				
mounting diameter			22.3 mm				
positive tolerance o	f installation diameter		0.4 mm				
mounting height			28.8 mm				
installation width			32.3 mm				
installation depth			25.4 mm				
Certificates/ approval	s						
General Product Ap			Declaration of Co	nformity	Test Certificates		
(SP)		EAC		CE EG-Konf.			
Test Certificates	Marine / Shipping						
	ABS	Llovds Register urs	PRS	RINA	RMRS R		
other							

## Further information





last modified:

1/18/2021 🖸