## SIEMENS

## Data sheet

## 3SU1032-2BM20-0AA0-Z Y19



Selector switch, illuminable, 22 mm, round, plastic with metal front ring, red, selector switch, short, 3 switch positions I>O<II, momentary contact type, actuating angle 2x45°, 10:30h/12h/13:30h, with laser labeling, inscription or symbol Customer-specific selection with SIRIUS ACT configurator (CIN)

product brand name         SIRUS ACT           product designation         Selector switches           design of the product         Actuating signaling element           product type designation         3SU1           product line         Plastic with metal front ring, matt, 22 mm           Enclosure		
design of the product       Actuating/signaling element         product type designation       3SU1         product line       Plastic with metal front ring, matt, 22 mm         Enclosure       1         Actuator       design of the actuating element         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         • contact module       Yes         • actuating element       plastic         material of the actuating element       plastic         material of the actuating element       23.3 mm         actuating angle       -         • clockwise       45°         • clockwise       45°         • anticlockwise       45°         Product component front ring       Yes         material of the front ring       standard         material of the front ring       standard         design of the front ring       standard         dedesign of the front ring       sta	product brand name	SIRIUS ACT
product type designation         3SU1           product line         Plastic with metal front ring, matt, 22 mm           Enclosure         Inumber 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         Yes           • contact module         Yes           • contact module         Yes           • contact module         Yes           • control the actuating element         plastic           shape of the actuating element         plastic           ust of the actuating element         23.3 mm           marking of the actuating element         32.3 mm           marking of the actuating element         23.3 mm           number of switching positions         3           actuating angle         45°           • clockwise         45°           • anticlockwise         45°           • clockwise         45°           • anticlockwise         45°           forn ring         Yes           generat technical data         generation Number (CIN)           protection class IP         Feds, IP67	product designation	Selector switches
product line         Plastic with metal front ring, matt, 22 mm           Enclosure         number of command points         1           Actuator	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, 2x45" (10:30 h/12 h/13:30 h), return on both sides         product extension optional       • light source       Yes         • contact module       Yes         color of the actuating element       plastic         shape of the actuating element       plastic         outer diameter of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT         configurator/Configuration Identification Number (CIN)       3         actuating angle       45"         • clockwise       45"         • anticlockwise       45"         • according to the front ring       Metal, matt         color of the front ring       sand gray         General technical data       protection class IP         • according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms	product type designation	3SU1
number of command points       1         Actuator       Actuator         design of the actuating element       Selector, short         principle of operation of the actuating element       momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides         product extension optional       Yes         • contact module       Yes         • contact module       Yes         • color of the actuating element       plastic         shape of the actuating element       plastic         shape of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)         number of switching positions       3         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         Product component front ring       Standard         material of the front ring       standard         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       • according to IEC 60068-2-27         • for railway applications according to EN 61373       Category 1, Class B         operating trequency maximum       1800 1/h	product line	Plastic with metal front ring, matt, 22 mm
Actuator       Selector, short         momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides         product extension optional       *         • light source       Yes         • contact module       Yes         color of the actuating element       red         material of the actuating element       plastic         shape of the actuating element       plastic         shape of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configurat	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       Yes         • contact module       Yes         color of the actuating element       red         plastic       shape of the actuating element         shape of the actuating element       22.3 mm         marking of the actuating element       22.3 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)         number of switching positions       3         actuating angle       45°         • alticlockwise       45°         Front ring       Yes         protect component front ring       standard         material of the front ring       sand gray         General technical data       IP66, IP67, IP69(IP69K)         protection class IP       IP66, IP67, IP69(IP69K)         e 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	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         plastic           shape of the actuating element         glastic           outre diameter of the actuating element         32.3 mm           marking of the actuating element         32.3 mm           number of switching positions         3           actuating angle         45°           • clockwise         45°           • anticlockwise         45°           other front ring         Yes           product component front ring         Yes           design of the front ring         Standard           material of the fort ring         standard           material of the fort ring         standard           material of the fort ring         standard           design of the fort ring         standard           material of the fort ring         standard	Actuator	
product extension optional       Yes         • light source       Yes         • contact module       Yes         color of the actuating element       red         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 or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)         number of switching positions       3         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         • anticlockwise       45°         • anticlockwise       45°         • anticlockwise       45°         • clockwise       45°         • anticlockwise       45°         • clockwise       45°         • anticlockwise       45°         • front ring       standard         material of the front ring       sand gray         General technical data          protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance          • according to IEC 60068-2-6       10 500 Hz: 5g	design of the actuating element	Selector, short
• light source       Yes         • contact module       Yes         • contact module       Yes         color of the actuating element       plastic         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 or symbol, can only be ordered via SIRIUS ACT configurator/Configurator/Configurator/Iconfigurator Number (CIN)         number of switching positions       3         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         Product component front ring       Yes         design of the front ring       standard         material of the front ring       sand gray         General technical data       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       inusoidal half-wave 15g / 11 ms         • for railway applications according to EN 61373       Category 1, Class B         operating frequency maximum       1800 1/h	principle of operation of the actuating element	momentary contact, 2x45° (10:30 h/12 h/13:30 h), return on both sides
• contact module         Yes           color of the actuating element         red           material of the actuating element         plastic           shape of the actuating element         Handle           outer diameter of the actuating element         Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configurator/Configuration Identification Number (CIN)           number of switching positions         3           actuating angle         -           • clockwise         45°           • anticlockwise         45°           • anticlockwise         45°           for the front ring         Yes           design of the front ring         Metal, matt           color of the front ring         Sand gray           General technical data         IP66, IP67, IP69(IP69K)           degre 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  <	product extension optional	
color of the actuating element       red         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 or symbol, can only be ordered via SIRIUS ACT configurator/Configuratore	light source	Yes
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 or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)         number of switching positions       3         actuating angle       45°         • clockwise       45°         • anticlockwise       45° <b>Front ring</b> Yes         gdesign of the front ring       Metal, matt         color of the front ring       Standard         material of the front ring       IP66, IP67, IP69(IP69K)         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       sicusoidal half-wave 15g / 11 ms         • according to IEC 60068-2-27       sicusoidal 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	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 or symbol, can only be ordered via SIRIUS ACT configuration Identification Number (CIN)         number of switching positions       3         actuating angle       •         • clockwise       45°         • anticlockwise       45°         • anticlockwise       45°         front ring       Yes         design of the front ring       standard         material of the front ring       Metal, matt         color of the front ring       sand gray         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         • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       0         • according to IEC 60068-2-6       10 500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       1800 1/h	color of the actuating element	red
outer diameter of the actuating element       32.3 mm         marking of the actuating element       Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)         number of switching positions       3         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         Front ring       Yes         gesign of the front ring       Standard         material of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       IP66, IP67, IP69(IP69K)         protection class IP       IP66, IP67, IP69(IP69K)         e according to IEC 60068-2-27       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         • 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	material of the actuating element	plastic
marking of the actuating elementAny inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)number of switching positions3actuating angle45°• clockwise45°• anticlockwise45°Front ringYesdesign of the front ringstandardmaterial of the front ringMetal, mattcolor of the front ringsand grayGeneral 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• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class B• preating frequency maximum1 800 1/h	shape of the actuating element	Handle
configuration Identification Number (CIN)         number of switching positions       3         actuating angle       45°         • clockwise       45°         • anticlockwise       45°         • anticlockwise       45°         Product component front ring       Yes         design of the front ring       standard         material of the front ring       Metal, matt         color of the front ring       sand gray         General technical data       gray         protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       inusoidal half-wave 15g / 11 ms         • according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms         • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       inusoidal 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       inusoidal 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       inusoidal half-wave 15g / 11 ms         • for railwa	outer diameter of the actuating element	32.3 mm
actuating angle       45°         • clockwise       45°         • anticlockwise       45°         Front ring       Yes         product component front ring       Standard         material of the front ring       Metal, matt         color of the front ring       sand gray         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         ofor railway applications according to EN 61373       Category 1, Class B         operating frequency maximum       1 800 1/h	marking of the actuating element	
• clockwise45°• anticlockwise45°Front ringYesproduct component front ringYesdesign of the front ringstandardmaterial of the front ringMetal, mattcolor of the front ringsand grayGeneral 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 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	number of switching positions	3
	actuating angle	
Front ring       Yes         design of the front ring       standard         material of the front ring       Metal, matt         color of the front ring       sand gray         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         vibration resistance       10 500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B	clockwise	45°
product component front ringYesdesign of the front ringstandardmaterial of the front ringMetal, mattcolor of the front ringsand grayGeneral 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 ringMetal, mattcolor of the front ringsand grayGeneral 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	
material of the front ringMetal, mattcolor of the front ringsand grayGeneral 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	product component front ring	Yes
color of the front ringsand grayGeneral 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       IP66, IP67, IP69(IP69K)         degree of protection NEMA rating       1, 2, 3, 3R, 4, 4X, 12, 13         shock resistance       inusoidal half-wave 15g / 11 ms         • according to IEC 60068-2-27       sinusoidal half-wave 15g / 11 ms         • for railway applications according to EN 61373       Category 1, Class B         vibration resistance       10 500 Hz: 5g         • for railway applications according to EN 61373       Category 1, Class B         operating frequency maximum       1 800 1/h	material of the front ring	Metal, matt
protection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• according to IEC 60068-2-27sinusoidal half-wave 15g / 11 ms• for railway applications according to EN 61373Category 1, Class Bvibration resistance• according to IEC 60068-2-610 500 Hz: 5g• for railway applications according to EN 61373Category 1, Class Boperating frequency maximum1 800 1/h	color of the front ring	sand gray
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	General technical data	
shock resistance       isinusoidal 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       isinusoidal 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	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         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     vibration 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       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	<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms
e 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
		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=3SU1032-2BM20-0AA0-Z Y19 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1032-2BM20-0AA0-Z Y19 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3SU1032-2BM20-0AA0-Z Y19 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1032-2BM20-0AA0-Z Y19⟨=en	

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