SIEMENS

Data sheet

3SU1001-1JB20-0AA0-Z Y10



EMERGENCY STOP mushroom pushbutton, illuminable, 22 mm, round, plastic, red, 60 mm, positive latching, acc. to EN ISO 13850, rotate-tounlatch, with laser labeling, upper case and lower case, always upper case at beginning of line

| product brand name SIRIUS ACT product designation EMERGENCY STOP mushroom pushbuttons design of the product Actuating/signaling 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 positive latching principle of operation of the actuating element latching principle of operation of the actuating element Yes • contact module Yes color oth actuating element of the actuating element plastic shape of the actuating element plastic shape of the actuating element for and outer diameter of the actuating element for and withing of the actuating element for and shape of the actuating element for and marking of the actuating element for and product function for and marking of the actuating element for and shape of the actuating element for and product funcking divics rotata-to-unlatch mec | | |
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| design of the product Actuating/signaling element product type designation 35U1 product line Plastic, black, 22 mm Enclosure Immber of command points 1 Actuator design of the actuating element positive latching principle of operation of the actuating element latching principle of operation of the actuating element latching e light source Yes contact module Yes color of the actuating element of the actuating element plastic shape of the actuating element plastic shape of the actuating element form material of the actuating element form marking of the actuating element form for anlower of switching positions 2 Front ring form <th>product brand name</th> <th>SIRIUS ACT</th> | product brand name | SIRIUS ACT |
| product type designation 3SU1 product line Plastic, black, 22 mm Enclosure Inumber of command points 1 Actuator design of the actuating element positive latching principle of operation of the actuating element latching product extension optional ight source Yes • light source Yes contact module • of the actuating element red red material of the actuating element plastic shape of the actuating element outer diameter of the actuating element found outer diameter of the actuating element material of the actuating element found avy inscription, text in upper/lower case, every line begins with upper case letter type of unlocking device rotate-to-unlatch mechanism avy inscription, text in upper/lower case, every line begins with upper case letter product component front ring No General tochnical data product somponent front ring Yes Settime of switching positions e EMERGENCY OFF function Yes Settime of switching of the actuating e EMERGENCY OFF function Yes Settime of the actuating | product designation | EMERGENCY STOP mushroom pushbuttons |
| product line Plastic, black, 22 mm Enclosure I number of command points 1 Actuator design of the actuating element positive latching principle of operation of the actuating element positive latching principle of operation of the actuating element elight source Yes Yes Yes • contact module Yes Yes off the actuating element red material of the actuating element off the actuating element found found outer diameter of the actuating element found found outer diameter of the actuating element found found marking of the actuating element found found number of switching positions 2 front ing product component front ring No found opsitive opening Yes Yes eEMERGENCY STOP function Yes for altway applications acc. to DIN EN 61373 shock resistance sinusoidal half-wave 50g / 11 ms for railway applications acc. to DIN EN 61373 vibration resistance io | design of the product | Actuating/signaling element |
| Enclosure I Actuator design of the actuating element positive latching principle of operation of the actuating element latching product extension optional ight source Yes • light source Yes contact module • of the actuating element red red • actuating element red red • of the actuating element plastic shape of the actuating element for marking of the actuating element outer diameter of the actuating element for marking of the actuating element for marking of the actuating element for marking of the actuating element type of unlocking device rotate-to-unlatch mechanism round number of switching positions 2 front ring product component front ring No General tochnical data product function Yes setter • EMERGENCY OFF function Yes setter protection class IP IP66, IP67, IP69(IP69K) degree of protection NEMA rating • acc: to IEC 60068-2-27 Sinusoidal half-wave 50g / 11 ms category 1, Class B vibra | product type designation | 3SU1 |
| number of command points 1 Actuator design of the actuating element positive latching principle of operation of the actuating element latching principle of operation of the actuating element latching e light source Yes • contact module Yes • of the actuating element red material of the actuating element plastic shape of the actuating element 60 mm outer diameter of the actuating element 60 mm marking of the actuating element 60 mm number of switching positions 2 Front fing product component front ring Product component front ring No General technical data Yes protection Class IP IP66, IP67, IP69(IP69K) e EMERGENCY STOP function Yes protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance act. to IEC 60068-2-27 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 vibration resistance acc. to IEC 60068-2-6 10 500 Hz: 5g | product line | Plastic, black, 22 mm |
| Actuator design of the actuating element positive latching principle of operation of the actuating element latching product extension optional ilight source • light source Yes • contact module Yes • contact module Yes • of the actuating element plastic shape of the actuating element plastic shape of the actuating element 60 mm marking of the actuating element 60 mm marking of the actuating element Any inscription, text in upper/lower case, every line begins with upper case letter type of unlocking device rotate-to-unlatch mechanism number of switching positions 2 Front ring No General technical data product function • positive opening Yes • EMERGENCY OFF function Yes • EMERGENCY OFF function Yes • EMERGENCY OFF function Yes • EMERGENCY STOP function Yes • EMERGENCY OFF function Yes • acc. to IEC 60068-2-27 Sinusoidal half-wave 50g / 11 ms • for railway applications acc. to DIN EN 61373 Category | Enclosure | |
| design of the actuating element positive latching principle of operation of the actuating element latching principle of operation of the actuating element latching i light source Yes color Yes color red material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 60 mm marking of the actuating element 60 mm case letter rotate-to-unlatch mechanism number of switching positions 2 Front ring No General technical data Yes product function Yes • positive opening Yes • EMERGENCY OFF function Yes • EMERGENCY OFF function Yes 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 | number of command points | 1 |
| principle of operation of the actuating element latching product extension optional Yes • light source Yes • contact module Yes color red • of the actuating element red shape of the actuating element plastic shape of the actuating element 60 mm marking of the actuating element 60 mm marking of the actuating element 60 mm marking of the actuating element 7 totate-to-unlatch mechanism number of switching positions 2 Front ring No General technical data Yes product function Yes • EMERGENCY OFF function Yes • EMERGENCY STOP function Yes • EMERGENCY STOP function Yes • positive opening 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance • acc. to IEC 60068-2-27 • for railway applications acc. to DIN EN 61373 Category 1, Class B | Actuator | |
| product extension optional light source contact module Yes contact module Yes color of the actuating element red material of the actuating element plastic shape of the actuating element cound outer diameter of the actuating element 60 mm marking of the actuating element case letter rotate-to-unlatch mechanism number of switching positions 2 Front ring product component front ring No General technical data product function eLMERGENCY OFF function Yes ELMERGENCY OFF function Yes ELMERGENCY OFF function Yes ELMERGENCY OFF function Yes ELMERGENCY STOP function Yes etter of protection NEMA rating 1, 2, 3, 3R, 4, 4X, 12, 13 shock resistance acc. to IEC 60088-2-27 Sinusoidal half-wave 50g / 11 ms category 1, Class B vibration resistance acc. to IEC 60088-2-6 10 500 Hz: 5g for railway applications acc. to DIN EN 61373 Category 1, Class B | design of the actuating element | positive latching |
| • light source Yes • contact module Yes • contact module Yes • of the actuating element red material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 60 mm marking of the actuating element 7 vate-to-unlatch mechanism number of switching positions 2 Front ring 7 product function 7 • positive opening Yes • EMERGENCY OFF function Yes • EMERGENCY STOP function Yes • eacc. to IEC 60068-2-27 Sinusoidal half-wave 50g / 11 ms • acc. to IEC 60068-2-27 Sinusoidal half-wave 50g / 11 ms • acc. to IEC 60068-2-6 10 500 Hz: 5g | principle of operation of the actuating element | latching |
| • contact module Yes color red • of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 60 mm marking of the actuating element 60 mm marking of the actuating element 60 mm marking of the actuating element 80 mm marking of the actuating element 80 mm marking of the actuating element 80 mm front ring rotate-to-unlatch mechanism product component front ring No General technical data Product function • positive opening Yes • EMERGENCY OFF function Yes • acc. to IEC 60068-2-27 Sinusoidal half-wave 50g / 11 ms • acc. to IEC 60068-2-27 Sinusoidal half-wave 50g / 11 ms • acc. to IEC 60068-2-6 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 | product extension optional | |
| color red material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 60 mm marking of the actuating element 70 traits in upper/lower case, every line begins with upper case letter type of unlocking device rotate-to-unlatch mechanism number of switching positions 2 Front ring No General technical data | light source | Yes |
| • of the actuating element red material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 60 mm marking of the actuating element Any inscription, text in upper/lower case, every line begins with upper case letter type of unlocking device rotate-to-unlatch mechanism number of switching positions 2 Front ring Ves product component front ring No General technical data Ves e EMERGENCY OFF function Yes e EMERGENCY STOP function Yes 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 e. to IEC 60068-2-27 Sinusoidal half-wave 50g / 11 ms e. to IEC 60068-2-6 10 500 Hz: 5g oct. to IEC 60068-2-6 10 500 Hz: 5g e. acc. to IEC 60068-2-6 10 500 Hz: 5g e. for railway applications acc. to DIN EN 61373 Category 1, Class B | contact module | Yes |
| material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 60 mm marking of the actuating element Any inscription, text in upper/lower case, every line begins with upper case letter type of unlocking device rotate-to-unlatch mechanism number of switching positions 2 Front ring No General technical data Product function • positive opening Yes • EMERGENCY OFF function Yes • EMERGENCY STOP function Yes 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 • 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 | color | |
| shape of the actuating element round outer diameter of the actuating element 60 mm marking of the actuating element Any inscription, text in upper/lower case, every line begins with upper case letter type of unlocking device rotate-to-unlatch mechanism number of switching positions 2 Front ring votate-to-unlatch mechanism product component front ring No General technical data Product function • positive opening Yes • EMERGENCY OFF function Yes • EMERGENCY STOP function Yes 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 • 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 • acc. to IEC 60068-2-6 10 500 Hz: 5g Category 1, Class B | of the actuating element | red |
| outer diameter of the actuating element60 mmmarking of the actuating elementAny inscription, text in upper/lower case, every line begins with upper case lettertype of unlocking devicerotate-to-unlatch mechanismnumber of switching positions2Front ringNoproduct component front ringNoGeneral technical dataproduct functionYes• positive openingYes• EMERGENCY OFF functionYes• EMERGENCY STOP functionYesprotection 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 B | material of the actuating element | plastic |
| marking of the actuating elementAny inscription, text in upper/lower case, every line begins with upper case lettertype of unlocking devicerotate-to-unlatch mechanismnumber of switching positions2Front ringNoproduct component front ringNoGeneral technical dataYesproduct functionYes• positive openingYes• EMERGENCY OFF functionYes• EMERGENCY STOP functionYesprotection 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 resistance10 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B | shape of the actuating element | round |
| case lettertype of unlocking devicerotate-to-unlatch mechanismnumber of switching positions2Front ringNoproduct component front ringNoGeneral technical dataYesproduct functionYes• positive openingYes• EMERGENCY OFF functionYes• EMERGENCY STOP functionYesprotection 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 B | outer diameter of the actuating element | 60 mm |
| number of switching positions 2 Front ring No groduct component front ring No General technical data | marking of the actuating element | |
| Front ring No General technical data Froduct function product function positive opening Yes EMERGENCY OFF function Yes EMERGENCY STOP function Yes 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 | type of unlocking device | rotate-to-unlatch mechanism |
| product component front ringNoGeneral technical dataproduct function• positive openingYes• EMERGENCY OFF functionYes• EMERGENCY STOP functionYesprotection 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 resistance10 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B | number of switching positions | 2 |
| General technical data product function Yes • positive opening Yes • EMERGENCY OFF function Yes • EMERGENCY STOP function Yes 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 • 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 | Front ring | |
| product functionYes• positive openingYes• EMERGENCY OFF functionYes• EMERGENCY STOP functionYesprotection class IPIP66, IP67, IP69(IP69K)degree of protection NEMA rating1, 2, 3, 3R, 4, 4X, 12, 13shock resistance• acc. to IEC 60068-2-27• for railway applications acc. to DIN EN 61373Category 1, Class Bvibration resistance• acc. to IEC 60068-2-6• acc. to IEC 60068-2-610 500 Hz: 5g• for railway applications acc. to DIN EN 61373Category 1, Class B | product component front ring | No |
| • positive openingYes• EMERGENCY OFF functionYes• EMERGENCY STOP functionYesprotection 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 B | General technical data | |
| EMERGENCY OFF function Yes EMERGENCY STOP function Yes 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 for railway applications acc. to DIN EN 61373 Category 1, Class B | product function | |
| • EMERGENCY STOP functionYesprotection 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 B | positive opening | Yes |
| 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 B | EMERGENCY OFF function | Yes |
| 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 | EMERGENCY STOP function | Yes |
| shock resistance | protection class IP | IP66, IP67, IP69(IP69K) |
| e 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 e acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 Category 1, Class B | 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 ibration resistance e acc. to IEC 60068-2-6 for railway applications acc. to DIN EN 61373 Category 1, Class B | shock resistance | |
| vibration resistance• acc. to IEC 60068-2-6• for railway applications acc. to DIN EN 61373Category 1, Class B | • 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 | for railway applications acc. to DIN EN 61373 | Category 1, Class B |
| for railway applications acc. to DIN EN 61373 Category 1, Class B | vibration resistance | |
| | • acc. to IEC 60068-2-6 | 10 500 Hz: 5g |
| operating frequency maximum 600 1/h | for railway applications acc. to DIN EN 61373 | Category 1, Class B |
| | operating frequency maximum | 600 1/h |

| mechanical service life (switching cycles) typical | 300 000 |
|--|---|
| reference code acc. to IEC 81346-2 | S |
| Safety related data | |
| B10 value with high demand rate acc. to SN 31920 | 100 000 |
| proportion of dangerous failures | - |
| with low demand rate acc. to SN 31920 | 20 % |
| with high demand rate acc. to SN 31920 | 20 % |
| failure rate [FIT] with low demand rate acc. to SN 31920 | 100 FIT |
| T1 value for proof test interval or service life acc. to IEC 61508 | 20 у |
| Ambient conditions | |
| ambient temperature during operation | -25 +70 °C |
| ambient temperature during storage | -40 +80 °C |
| environmental category during operation acc. to IEC 60721 | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %) |
| Installation/ mounting/ dimensions | |
| shape of the installation opening | round |
| mounting diameter | 22.3 mm |
| positive tolerance of installation diameter | 0.4 mm |
| mounting height | 45.3 mm |
| installation width | 60 mm |
| installation depth | 26.3 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=3SU1001-1JB20-0AA0-Z Y10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1001-1JB20-0AA0-Z Y10 | |
| Service&Support (Manuals, Certificates, Characteristics https://support.industry.siemens.com/cs/ww/en/ps/3SU1001 | |

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1001-1JB20-0AA0-Z Y10&lang=en

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