



enclosure for command devices, 22 mm, round, enclosure material plastic, enclosure top part yellow, 1 command point plastic, A=EMERGENCY-STOP mushroom pushbutton red, 40 mm, rotate-to-unlatch, 2 NC, spring-loaded terminal, base mounting, silver label, black font, with graphic symbol: EMERGENCY STOP, M12 plug (5-pole) bottom, insulated reserve conductors, pin assignment: Pin1=21, Pin2=11, Pin3=n.c., Pin4=22, Pin5=12, label enclosed

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                           | SIRIUS ACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| product designation                          | Enclosures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| product type designation                     | 3SU1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| equipment of commanding and signaling device | A = EMERGENCY STOP mushroom pushbutton, 40 mm, with positive latching acc. to ISO 13850 and rotate-to-unlatch mechanism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| manufacturer's article number                | <ul style="list-style-type: none"> <li>• of supplied contact module at the command point A 1 <a href="#">3SU1400-2AA10-1CA0</a></li> <li>• of supplied contact module at the command point A 3 <a href="#">3SU1400-2AA10-1CA0</a></li> <li>• of the supplied holder at the command point A <a href="#">3SU1500-0AA10-0AA0</a></li> <li>• of the supplied actuator at the command point A <a href="#">3SU1000-1HB20-0AA0</a></li> <li>• of supplied empty enclosure <a href="#">3SU1801-0AA00-0AB2</a></li> <li>• of the supplied accessories at the command point A <a href="#">3SU1900-0AF81-0AZ0 Q9Y</a></li> </ul> |
| <b>Enclosure</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| design of the housing                        | with recess for label                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| shape of the enclosure front                 | Square                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| material of the enclosure                    | plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| number of command points                     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| product component                            | <ul style="list-style-type: none"> <li>• EMERGENCY STOP device Yes</li> <li>• protective collar No</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| color of the enclosure top part              | yellow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| delivery state                               | <ul style="list-style-type: none"> <li>• as a kit No</li> <li>• pre-wired on strip terminal Yes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| fastening method of the enclosure            | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Actuator</b>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| design of the actuating element              | EMERGENCY STOP mushroom pushbutton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| suitability for use EMERGENCY OFF switch     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| product feature lockout                      | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| product extension optional light source      | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| color of the actuating element               | red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| material of the actuating element            | plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| shape of the actuating element               | round                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| number of contact modules                    | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| type of unlocking device                     | A = rotate-to-unlatch mechanism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Front ring</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| product component front ring                 | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Holder</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| material of the holder                       | Plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Display</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                                                                                     |                                                                                                                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| number of LED modules                                                               | 0                                                                                                                                             |
| <b>General technical data</b>                                                       |                                                                                                                                               |
| <b>product function</b>                                                             |                                                                                                                                               |
| • positive opening                                                                  | Yes                                                                                                                                           |
| • EMERGENCY OFF function                                                            | Yes                                                                                                                                           |
| • EMERGENCY STOP function                                                           | Yes                                                                                                                                           |
| <b>protection class IP</b>                                                          | IP66, IP67, IP69(IP69K)                                                                                                                       |
| <b>degree of protection NEMA rating</b>                                             | 1, 2, 3, 3R, 4, 4X, 12K, 13                                                                                                                   |
| <b>shock resistance</b>                                                             |                                                                                                                                               |
| • according to IEC 60068-2-27                                                       | sinusoidal half-wave 15g / 11 ms                                                                                                              |
| • for railway applications according to EN 61373                                    | Category 1, Class B                                                                                                                           |
| <b>vibration resistance</b>                                                         |                                                                                                                                               |
| • according to IEC 60068-2-6                                                        | 10 ... 500 Hz: 5g                                                                                                                             |
| • for railway applications according to EN 61373                                    | Category 1, Class B                                                                                                                           |
| <b>reference code according to IEC 81346-2</b>                                      | S                                                                                                                                             |
| <b>continuous current of the C characteristic MCB</b>                               | 10 A; for a short-circuit current smaller than 400 A                                                                                          |
| <b>continuous current of the quick DIAZED fuse link</b>                             | 10 A                                                                                                                                          |
| <b>continuous current of the DIAZED fuse link gG</b>                                | 10 A                                                                                                                                          |
| <b>Substance Prohibitance (Date)</b>                                                | 07/01/2006                                                                                                                                    |
| <b>SVHC substance name</b>                                                          | Lead - 7439-92-1                                                                                                                              |
| <b>Weight</b>                                                                       | 391 g                                                                                                                                         |
| <b>operating voltage</b>                                                            |                                                                                                                                               |
| • at AC                                                                             |                                                                                                                                               |
| — at 50 Hz rated value                                                              | 5 ... 500 V                                                                                                                                   |
| — at 60 Hz rated value                                                              | 5 ... 500 V                                                                                                                                   |
| • at DC rated value                                                                 | 5 ... 500 V                                                                                                                                   |
| <b>cable entry type</b>                                                             | M12 plug, 5-pole                                                                                                                              |
| <b>Communication/ Protocol</b>                                                      |                                                                                                                                               |
| design of the interface for communication                                           | without                                                                                                                                       |
| <b>Auxiliary circuit</b>                                                            |                                                                                                                                               |
| <b>design of the contact of auxiliary contacts</b>                                  | Silver alloy                                                                                                                                  |
| <b>number of NC contacts for auxiliary contacts</b>                                 | 2                                                                                                                                             |
| <b>number of NO contacts for auxiliary contacts</b>                                 | 0                                                                                                                                             |
| <b>Connections/ Terminals</b>                                                       |                                                                                                                                               |
| type of electrical connection of modules and accessories                            | Screw-type terminal                                                                                                                           |
| <b>type of electrical connection on enclosure</b>                                   | M12 connector, 5-pole                                                                                                                         |
| <b>tightening torque of the screws in the bracket</b>                               | 1 ... 1.2 N·m                                                                                                                                 |
| <b>tightening torque of fixing screws in the enclosure cover</b>                    | 1.5 ... 1.7 N·m                                                                                                                               |
| tightening torque with screw-type terminals                                         | 0.8 ... 0.9 N·m                                                                                                                               |
| <b>Safety related data</b>                                                          |                                                                                                                                               |
| product function suitable for safety function                                       | Yes                                                                                                                                           |
| <b>test wear-related service life necessary</b>                                     | Yes                                                                                                                                           |
| <b>proportion of dangerous failures</b>                                             |                                                                                                                                               |
| • with low demand rate according to SN 31920                                        | 20 %                                                                                                                                          |
| • with high demand rate per NC contact according to SN 31920                        | 20 %                                                                                                                                          |
| <b>B10 value with high demand rate according to SN 31920</b>                        | 100 000                                                                                                                                       |
| <b>failure rate [FIT] with low demand rate per NC contact according to SN 31920</b> | 100 FIT                                                                                                                                       |
| <b>ISO 13849</b>                                                                    |                                                                                                                                               |
| <b>device type according to ISO 13849-1</b>                                         | 3                                                                                                                                             |
| <b>IEC 61508</b>                                                                    |                                                                                                                                               |
| T1 value for proof test interval or service life according to IEC 61508             | 20 a                                                                                                                                          |
| <b>Ambient conditions</b>                                                           |                                                                                                                                               |
| <b>ambient temperature</b>                                                          |                                                                                                                                               |
| • during operation                                                                  | -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%, no condensation in operation permitted for all devices behind front panel) |
| <b>Environmental footprint</b>                                                      |                                                                                                                                               |

|                                                        |           |
|--------------------------------------------------------|-----------|
| Environmental Product Declaration (EPD)                | Yes       |
| global warming potential [CO2 eq] total                | 0.787 kg  |
| global warming potential [CO2 eq] during manufacturing | 0.566 kg  |
| global warming potential [CO2 eq] during operation     | 0.235 kg  |
| global warming potential [CO2 eq] after end of life    | -0.015 kg |

#### Installation/ mounting/ dimensions

|                                             |                |
|---------------------------------------------|----------------|
| fastening method of modules and accessories | Floor mounting |
| height                                      | 89.4 mm        |
| width                                       | 85 mm          |
| depth                                       | 109 mm         |
| shape of the installation opening           | round          |

#### Accessories

|                                               |                                              |
|-----------------------------------------------|----------------------------------------------|
| number of labels                              | 1                                            |
| marking of the name plate for command devices | A = Stopp (IEC 60417-5110A, DIN 30600-0013A) |
| color of the label                            | A = silver                                   |
| number of inscription plates                  | 0                                            |
| number of backing plates                      | 0                                            |

#### Approvals Certificates

##### General Product Approval



| Test Certificates | Maritime application | other |
|-------------------|----------------------|-------|
|-------------------|----------------------|-------|

[Type Test Certificates/Test Report](#)



[Confirmation](#)

#### Environment



Siemens  
EcoTech



[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

##### 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=3SU1801-0NH00-4NB2>

##### Cax online generator

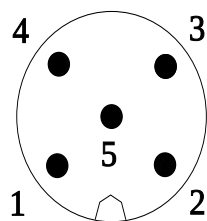
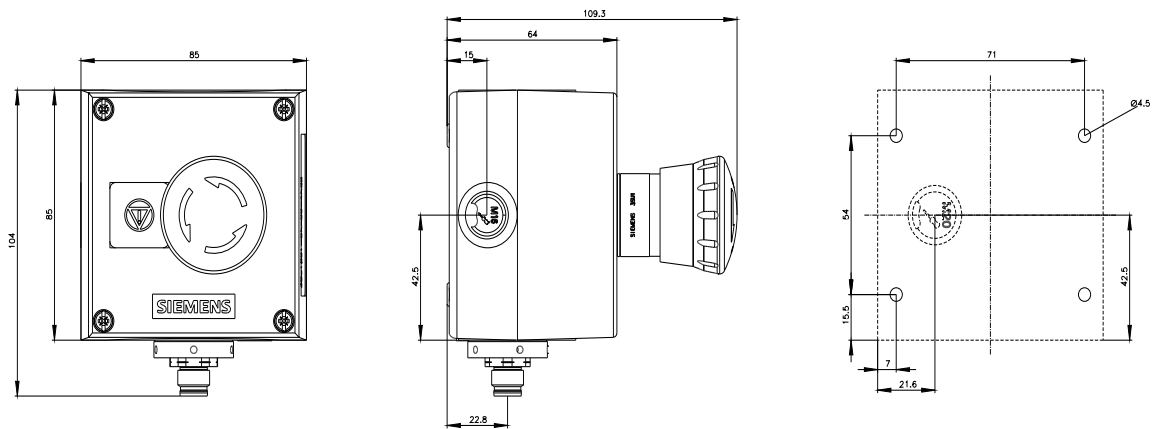
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1801-0NH00-4NB2>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1801-0NH00-4NB2>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1801-0NH00-4NB2&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1801-0NH00-4NB2&lang=en)



|   |            |   |      |
|---|------------|---|------|
| 1 | BN = Brown | → | 21   |
| 2 | BH = White | → | 11   |
| 3 | BU = Blue  | → | n.c. |
| 4 | BK = Black | → | 22   |
| 5 | GY = Grey  | → | 12   |

