



SETRON, Switch disconnecter 3LD, main switch, 3-pole, Iu: 100 A, Operating power / at AC-23 A at 400 V: 37 kW, molded-plastic encapsulation for inch cable gland, 1 NC, 1 NO, rotary operating mechanism, black

| Model                                                                               |                                                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------|
| product brand name                                                                  | SETRON                                           |
| product designation                                                                 | Switch disconnecter                              |
| design of the product                                                               | Main switch                                      |
| display version for switch position indicator manual operation                      | 1 ON - 0 OFF                                     |
| type of switch                                                                      | Molded-plastic enclosure for inch threaded joint |
| design of the actuating element                                                     | Short rotary knob                                |
| color of the actuating element                                                      | black                                            |
| design of handle                                                                    | rotary operating mechanism, black                |
| type of the driving mechanism motor drive                                           | No                                               |
| General technical data                                                              |                                                  |
| number of poles                                                                     | 3                                                |
| number of poles note                                                                | PE                                               |
| size of switch disconnecter                                                         | 4                                                |
| mechanical service life (operating cycles) typical                                  | 100 000                                          |
| electrical endurance (operating cycles)                                             |                                                  |
| • at AC-23 A at 690 V                                                               | 6 000                                            |
| operating frequency maximum                                                         | 50 1/h                                           |
| degree of pollution                                                                 | 3                                                |
| Voltage                                                                             |                                                  |
| insulation voltage rated value                                                      | 690 V                                            |
| surge voltage resistance rated value                                                | 6 kV                                             |
| operating voltage                                                                   |                                                  |
| • at AC rated value                                                                 | 690 V                                            |
| operating frequency rated value                                                     |                                                  |
| • minimum                                                                           | 50 Hz                                            |
| • maximum                                                                           | 60 Hz                                            |
| Protection class                                                                    |                                                  |
| protection class IP                                                                 | IP65                                             |
| degree of protection NEMA rating                                                    | 1, 4X, 12                                        |
| protection class IP on the front                                                    | IP65                                             |
| Dissipation                                                                         |                                                  |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 7.5 W                                            |
| Main circuit                                                                        |                                                  |
| operational current                                                                 |                                                  |
| • at AC-21 at 690 V rated value                                                     | 100 A                                            |
| • at AC-21 A at 240 V rated value                                                   | 100 A                                            |
| • at AC-21 A at 400 V rated value                                                   | 100 A                                            |

|                                                                                                                                                                                                                                                                                                                                              |                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at AC-21 A at 440 V rated value</li> <li>• at AC-23 A at 400 V rated value</li> </ul>                                                                                                                                                                                                               | 100 A<br>70 A                                                           |
| <b>operating power</b>                                                                                                                                                                                                                                                                                                                       |                                                                         |
| <ul style="list-style-type: none"> <li>• at AC-23 A at 240 V rated value</li> <li>• at AC-23 A at 400 V rated value</li> <li>• at AC-23 A at 440 V rated value</li> <li>• at AC-23 A at 690 V rated value</li> <li>• at AC-3 at 240 V rated value</li> <li>• at AC-3 at 400 V rated value</li> <li>• at AC-3 at 690 V rated value</li> </ul> | 18.5 kW<br>37 kW<br>37 kW<br>30 kW<br>18.5 kW<br>30 kW<br>22 kW         |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                                                                                                     |                                                                         |
| number of CO contacts for auxiliary contacts                                                                                                                                                                                                                                                                                                 | 0                                                                       |
| <b>number of NC contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                          | 1                                                                       |
| <b>number of NO contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                          | 1                                                                       |
| <b>operating voltage of auxiliary contacts at AC maximum</b>                                                                                                                                                                                                                                                                                 | 500 V                                                                   |
| <b>continuous current of the auxiliary contact rated value</b>                                                                                                                                                                                                                                                                               | 10 A                                                                    |
| insulation voltage of the auxiliary switch rated value                                                                                                                                                                                                                                                                                       | 500 V                                                                   |
| <b>Suitability</b>                                                                                                                                                                                                                                                                                                                           |                                                                         |
| <b>suitability for use main switch</b>                                                                                                                                                                                                                                                                                                       | Yes                                                                     |
| <b>suitability for use switch disconnecter</b>                                                                                                                                                                                                                                                                                               | Yes                                                                     |
| <b>suitability for use EMERGENCY OFF switch</b>                                                                                                                                                                                                                                                                                              | No                                                                      |
| <b>suitability for use safety switch</b>                                                                                                                                                                                                                                                                                                     | Yes                                                                     |
| <b>suitability for use maintenance/repair switch</b>                                                                                                                                                                                                                                                                                         | Yes                                                                     |
| <b>Product details</b>                                                                                                                                                                                                                                                                                                                       |                                                                         |
| <b>product feature can be locked into OFF position</b>                                                                                                                                                                                                                                                                                       | Yes                                                                     |
| <b>Accessories</b>                                                                                                                                                                                                                                                                                                                           |                                                                         |
| <b>product extension optional</b>                                                                                                                                                                                                                                                                                                            |                                                                         |
| <ul style="list-style-type: none"> <li>• motor drive</li> <li>• voltage trigger</li> </ul>                                                                                                                                                                                                                                                   | No<br>No                                                                |
| <b>number of connectable NC contacts for auxiliary contacts attachable maximum</b>                                                                                                                                                                                                                                                           | 2                                                                       |
| <b>number of connectable NO contacts for auxiliary contacts attachable maximum</b>                                                                                                                                                                                                                                                           | 3                                                                       |
| <b>number of connectable CO contacts for auxiliary contacts attachable maximum</b>                                                                                                                                                                                                                                                           | 0                                                                       |
| <b>number of bracket locks maximum</b>                                                                                                                                                                                                                                                                                                       | 3                                                                       |
| <b>hasp thickness of the bracket locks</b>                                                                                                                                                                                                                                                                                                   | 4 ... 8 mm                                                              |
| <b>Short circuit</b>                                                                                                                                                                                                                                                                                                                         |                                                                         |
| <b>conditional short-circuit current with line-side fuse protection</b>                                                                                                                                                                                                                                                                      |                                                                         |
| <ul style="list-style-type: none"> <li>• at 690 V by gG fuse rated value</li> </ul>                                                                                                                                                                                                                                                          | 50 kA                                                                   |
| <b>let-through current with closed switch</b>                                                                                                                                                                                                                                                                                                |                                                                         |
| <ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> <li>• at 440 V for combination switch + gG fuse maximum</li> <li>• at 690 V for combination switch + gG fuse maximum permissible</li> </ul>                                                                                                  | 10 kA<br>10 kA<br>10 kA                                                 |
| <b>I<sub>2t</sub> value with closed switch</b>                                                                                                                                                                                                                                                                                               |                                                                         |
| <ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> <li>• at 440 V for combination switch + gG fuse maximum</li> <li>• at 690 V for combination switch + gG fuse maximum</li> </ul>                                                                                                              | 64 kA <sup>2</sup> .s<br>64 kA <sup>2</sup> .s<br>64 kA <sup>2</sup> .s |
| <b>design of the fuse link</b>                                                                                                                                                                                                                                                                                                               |                                                                         |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit required</li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>                                                                                                                                                       | fuse gL/gG: 100 A<br>fuse gL/gG: 10 A                                   |
| <b>operational current of upstream fuse rated value</b>                                                                                                                                                                                                                                                                                      | 100 A                                                                   |
| <b>according UL</b>                                                                                                                                                                                                                                                                                                                          |                                                                         |
| <b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>                                                                                                                                                                                                                                                                | 100 A                                                                   |
| <b>operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value</b>                                                                                                                                                                                                                                                      | 600 V                                                                   |
| <b>active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value</b>                                                                                                                                                                                                                                                         | 60                                                                      |
| <b>active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value</b>                                                                                                                                                                                                                                                         | 75                                                                      |

|                                                                               |       |
|-------------------------------------------------------------------------------|-------|
| short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1 | 10 kA |
| continuous current of upstream fuse according to UL rated value               | 200 A |
| type of fuse according to UL                                                  | RK5   |

#### Connections

|                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AWG number as coded connectable conductor cross section solid maximum</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>                                                                  | 1<br>12                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>type of connectable conductor cross-sections for copper conductor</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• stranded</li> </ul>   | 1x (4...50mm <sup>2</sup> )<br>1x (4...35mm <sup>2</sup> )<br>1x (4...50mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                    |
| <b>type of connectable conductor cross-sections for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• stranded</li> </ul> | lateral auxiliary switch 2x (0,75 ... 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 ... 2,5mm <sup>2</sup> )<br>lateral auxiliary switch 2x (0,75 ... 1,5mm <sup>2</sup> ), 1x 2,5mm <sup>2</sup> ; front auxiliary switch 1x 2,5mm <sup>2</sup><br>lateral auxiliary switch 2x (0,75 ... 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 ... 2,5mm <sup>2</sup> ) |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary contacts</li> </ul>                                                          | box terminal<br>connection terminals                                                                                                                                                                                                                                                                                                                                                                                         |

#### Mechanical Design

|                                                                                                                                                                              |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| height                                                                                                                                                                       | 302 mm                     |
| width                                                                                                                                                                        | 212 mm                     |
| depth                                                                                                                                                                        | 181 mm                     |
| type of device                                                                                                                                                               | fixed mounting             |
| fastening method                                                                                                                                                             | Complete unit in enclosure |
| <b>fastening method</b> <ul style="list-style-type: none"> <li>• 4-hole front mounting</li> <li>• front mounting with central attachment</li> <li>• rail mounting</li> </ul> | No<br>Yes<br>No            |
| <b>Net Weight</b>                                                                                                                                                            | 1.853 kg                   |

#### Environmental conditions

|                                                                                                                            |                 |
|----------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>ambient temperature during operation</b> <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | -25 °C<br>55 °C |
| <b>ambient temperature during storage</b> <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>   | -25 °C<br>55 °C |

#### Approvals Certificates

##### General Product Approval



|                          |                   |                      |       |
|--------------------------|-------------------|----------------------|-------|
| General Product Approval | Test Certificates | Maritime application | other |
|--------------------------|-------------------|----------------------|-------|

[Miscellaneous](#)



[Miscellaneous](#)



[Confirmation](#)

#### Environment

[Environmental Con-](#) [Environmental Con-](#)

## 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,...)

<http://www.siemens.com/lowvoltage/catalogs>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2766-1GP51-0US2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2766-1GP51-0US2>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2766-1GP51-0US2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2766-1GP51-0US2)

### CAX-Online-Generator

<http://www.siemens.com/cax>

### Tender specifications

<http://www.siemens.com/specifications>





