



SETRON, switch disconnecter 3LD, main switch, 3-pole, Iu: 125 A, operating power / at AC-23 A at 400 V: 45 kW, front-mounted, rotary operating mechanism, black, 4-hole mounting of the handle

| 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                                                                      | front mounted                     |
| 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                                 |
| 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, 3R, 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 | 12 W                              |
| Main circuit                                                                        |                                   |
| operational current                                                                 |                                   |
| • at AC-21 at 690 V rated value                                                     | 125 A                             |
| • at AC-21 A at 240 V rated value                                                   | 125 A                             |
| • at AC-21 A at 400 V rated value                                                   | 125 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>                                                                                                                                                                                                               | 125 A<br>80 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> | 22 kW<br>45 kW<br>45 kW<br>37 kW<br>22 kW<br>37 kW<br>30 kW                |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                                                                                                     |                                                                            |
| number of CO contacts for auxiliary contacts                                                                                                                                                                                                                                                                                                 | 0                                                                          |
| number of NC contacts for auxiliary contacts                                                                                                                                                                                                                                                                                                 | 0                                                                          |
| number of NO contacts for auxiliary contacts                                                                                                                                                                                                                                                                                                 | 0                                                                          |
| operating voltage of auxiliary contacts at AC maximum                                                                                                                                                                                                                                                                                        | 500 V                                                                      |
| continuous current of the auxiliary contact rated value                                                                                                                                                                                                                                                                                      | 10 A                                                                       |
| insulation voltage of the auxiliary switch rated value                                                                                                                                                                                                                                                                                       | 500 V                                                                      |
| <b>Suitability</b>                                                                                                                                                                                                                                                                                                                           |                                                                            |
| suitability for use main switch                                                                                                                                                                                                                                                                                                              | Yes                                                                        |
| suitability for use switch disconnecter                                                                                                                                                                                                                                                                                                      | Yes                                                                        |
| suitability for use EMERGENCY OFF switch                                                                                                                                                                                                                                                                                                     | No                                                                         |
| suitability for use safety switch                                                                                                                                                                                                                                                                                                            | Yes                                                                        |
| suitability for use maintenance/repair switch                                                                                                                                                                                                                                                                                                | Yes                                                                        |
| <b>Product details</b>                                                                                                                                                                                                                                                                                                                       |                                                                            |
| product feature can be locked into OFF position                                                                                                                                                                                                                                                                                              | Yes                                                                        |
| <b>Accessories</b>                                                                                                                                                                                                                                                                                                                           |                                                                            |
| product extension optional                                                                                                                                                                                                                                                                                                                   |                                                                            |
| <ul style="list-style-type: none"> <li>• motor drive</li> <li>• voltage trigger</li> </ul>                                                                                                                                                                                                                                                   | No<br>No                                                                   |
| number of connectable NC contacts for auxiliary contacts attachable maximum                                                                                                                                                                                                                                                                  | 3                                                                          |
| number of connectable NO contacts for auxiliary contacts attachable maximum                                                                                                                                                                                                                                                                  | 3                                                                          |
| number of connectable CO contacts for auxiliary contacts attachable maximum                                                                                                                                                                                                                                                                  | 0                                                                          |
| number of bracket locks maximum                                                                                                                                                                                                                                                                                                              | 3                                                                          |
| hasp thickness of the bracket locks                                                                                                                                                                                                                                                                                                          | 4 ... 8 mm                                                                 |
| <b>Short circuit</b>                                                                                                                                                                                                                                                                                                                         |                                                                            |
| conditional short-circuit current with line-side fuse protection                                                                                                                                                                                                                                                                             |                                                                            |
| <ul style="list-style-type: none"> <li>• at 690 V by gG fuse rated value</li> </ul>                                                                                                                                                                                                                                                          | 20 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<sup>2</sup>t 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>                                                                                                              | 104 kA <sup>2</sup> ·s<br>104 kA <sup>2</sup> ·s<br>104 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: 125 A<br>fuse gL/gG: 10 A                                      |
| operational current of upstream fuse rated value                                                                                                                                                                                                                                                                                             | 125 A                                                                      |
| <b>according UL</b>                                                                                                                                                                                                                                                                                                                          |                                                                            |
| operational current at AC according to UL 508/UL 60947-4-1 rated value                                                                                                                                                                                                                                                                       | 125 A                                                                      |
| operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value                                                                                                                                                                                                                                                             | 600 V                                                                      |
| active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value                                                                                                                                                                                                                                                                | 75                                                                         |

|                                                                               |       |
|-------------------------------------------------------------------------------|-------|
| active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value | 100   |
| 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

|                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AWG number as coded connectable conductor cross section solid maximum                                                                                                                           | 1<br>12                                                                                                                                                                                                                                                                                                                                                                                                                      |
| type of connectable conductor cross-sections for copper conductor <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> )                                                                                                                                                                                                                                                                                                                                    |
| type of connectable conductor cross-sections for auxiliary contacts <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> ) |
| type of electrical connection <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                                                                                                                                                          | 106 mm                              |
| width                                                                                                                                                           | 90 mm                               |
| depth                                                                                                                                                           | 112.5 mm                            |
| type of device                                                                                                                                                  | fixed mounting                      |
| fastening method                                                                                                                                                | Built-in unit fixed-mounted version |
| fastening method <ul style="list-style-type: none"> <li>4-hole front mounting</li> <li>front mounting with central attachment</li> <li>rail mounting</li> </ul> | Yes<br>No<br>No                     |
| Net Weight                                                                                                                                                      | 488 g                               |

#### Environmental conditions

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

#### Approvals Certificates

|             |                          |
|-------------|--------------------------|
| Environment | General Product Approval |
|-------------|--------------------------|

[Environmental Confirmations](#)

[Environmental Confirmations](#)



[Miscellaneous](#)

#### General Product Approval

#### Maritime application



[Confirmation](#)



[Confirmation](#)



#### 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/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2804-0TK51>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2804-0TK51>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2804-0TK51](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2804-0TK51)

CAX-Online-Generator

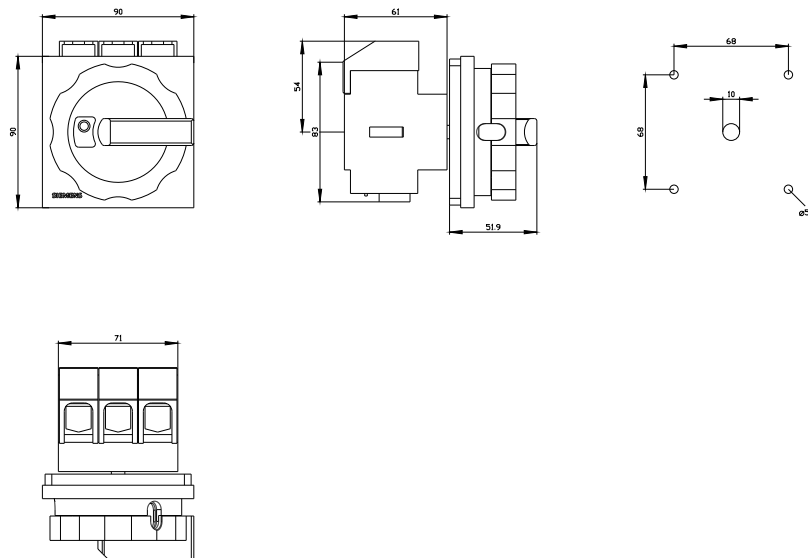
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





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