



SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3-pole, Iu: 125 A, operating power / at AC-23 A 400 V: 45 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

| Model                                                                                                          |                                        |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------|
| product brand name                                                                                             | SETRON                                 |
| product designation                                                                                            | 3LD Switch disconnecter                |
| design of the product                                                                                          | EMERGENCY-STOP switch                  |
| display version / for switch position indicator manual operation                                               | 1 ON - 0 OFF                           |
| design of the actuating element                                                                                | Short rotary knob                      |
| design of handle                                                                                               | rotary operating mechanism, red/yellow |
| type of the driving mechanism / motor drive                                                                    | No                                     |
| General technical data                                                                                         |                                        |
| number of poles                                                                                                | 3                                      |
| type of device                                                                                                 | fixed mounting                         |
| type of switch                                                                                                 | Floor mounting with door coupling      |
| size of switch disconnecter                                                                                    | 4                                      |
| mechanical service life (switching cycles) / typical                                                           | 100 000                                |
| electrical endurance (switching cycles)                                                                        |                                        |
| • at AC-23 A / at 690 V                                                                                        | 6 000                                  |
| I <sub>2t</sub> value / with closed switch / at 690 V / for combination switch + gG fuse / maximum             | 104 kA <sup>2</sup> .s                 |
| let-through I <sub>2t</sub> value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 104 kA <sup>2</sup> .s                 |
| operating frequency / maximum                                                                                  | 50 1/h                                 |
| Voltage                                                                                                        |                                        |
| insulation voltage / rated value                                                                               | 690 V                                  |
| surge voltage resistance / rated value                                                                         | 6 kV                                   |
| 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                                   |
| • per conductor / typical                                                                                      | 12 W                                   |
| Current                                                                                                        |                                        |
| operational current                                                                                            |                                        |
| • at 40 °C / rated value                                                                                       | 125 A                                  |
| • at 45 °C / rated value                                                                                       | 125 A                                  |

|                                                                                                                                                                                                                                                                                                                                                                          |                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> <li>• at 55 °C / rated value</li> <li>• at AC / rated value</li> <li>• at AC-23 A / at 400 V / rated value</li> <li>• at AC-21 / at 690 V / rated value</li> <li>• at AC-21 A / at 240 V / rated value</li> <li>• at AC-21 A / at 440 V / rated value</li> </ul>                                    | 125 A<br>125 A<br>125 A<br>80 A<br>125 A<br>125 A<br>125 A  |
| operational current / of upstream fuse / rated value                                                                                                                                                                                                                                                                                                                     | 125 A                                                       |
| let-through current / with closed switch                                                                                                                                                                                                                                                                                                                                 |                                                             |
| <ul style="list-style-type: none"> <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                                              |
| <b>Main circuit</b>                                                                                                                                                                                                                                                                                                                                                      |                                                             |
| operating power                                                                                                                                                                                                                                                                                                                                                          |                                                             |
| <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 |
| operational current / rated value                                                                                                                                                                                                                                                                                                                                        | 125 A                                                       |
| <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                                                                                                                                                                                                                                                                                                                                                      |                                                             |
| <ul style="list-style-type: none"> <li>• main switch</li> <li>• switch disconnecter</li> <li>• EMERGENCY OFF switch</li> <li>• safety switch</li> <li>• maintenance/repair switch</li> </ul>                                                                                                                                                                             | Yes<br>Yes<br>Yes<br>Yes<br>Yes                             |
| <b>Appearance</b>                                                                                                                                                                                                                                                                                                                                                        |                                                             |
| color / of the actuating element                                                                                                                                                                                                                                                                                                                                         | red                                                         |
| <b>Product details</b>                                                                                                                                                                                                                                                                                                                                                   |                                                             |
| product feature                                                                                                                                                                                                                                                                                                                                                          |                                                             |
| <ul style="list-style-type: none"> <li>• can be locked into OFF position</li> </ul>                                                                                                                                                                                                                                                                                      | Yes                                                         |
| number of bracket locks / maximum                                                                                                                                                                                                                                                                                                                                        | 3                                                           |
| hasp thickness / of the bracket locks / minimum                                                                                                                                                                                                                                                                                                                          | 4 mm                                                        |
| hasp thickness / of the bracket locks / maximum                                                                                                                                                                                                                                                                                                                          | 8 mm                                                        |
| product extension / optional                                                                                                                                                                                                                                                                                                                                             |                                                             |
| <ul style="list-style-type: none"> <li>• motor drive</li> <li>• voltage trigger</li> </ul>                                                                                                                                                                                                                                                                               | No<br>No                                                    |
| <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>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                                                                                                                                        |
| <b>Number</b>                                                                         |                                                                                                                                            |
| number of connectable NC contacts / for auxiliary contacts / attachable / maximum     | 3                                                                                                                                          |
| number of connectable NO contacts / for auxiliary contacts / attachable / maximum     | 5                                                                                                                                          |
| number of connectable CO contacts / for auxiliary contacts / attachable / maximum     | 0                                                                                                                                          |
| <b>Connections</b>                                                                    |                                                                                                                                            |
| AWG number / as coded connectable conductor cross section / solid                     |                                                                                                                                            |
| • maximum                                                                             | 1                                                                                                                                          |
| • minimum                                                                             | 12                                                                                                                                         |
| type of connectable conductor cross-sections / for copper conductor                   |                                                                                                                                            |
| • solid                                                                               | 1x (4...50mm <sup>2</sup> )                                                                                                                |
| • finely stranded / with core end processing                                          | 1x (4...35mm <sup>2</sup> )                                                                                                                |
| • stranded                                                                            | 1x (4...50mm <sup>2</sup> )                                                                                                                |
| type of connectable conductor cross-sections / for auxiliary contacts                 |                                                                                                                                            |
| • solid                                                                               | 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> ) |
| • finely stranded / with core end processing                                          | 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>           |
| • stranded                                                                            | 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                                                         |                                                                                                                                            |
| • for main current circuit                                                            | box terminal                                                                                                                               |
| • for auxiliary contacts                                                              | connection terminals                                                                                                                       |
| <b>Requirements</b>                                                                   |                                                                                                                                            |
| design of the fuse link                                                               |                                                                                                                                            |
| • for short-circuit protection of the main circuit / required                         | fuse gL/gG: 125 A                                                                                                                          |
| • for short-circuit protection of the auxiliary switch / required                     | fuse gL/gG: 10 A                                                                                                                           |
| <b>Mechanical Design</b>                                                              |                                                                                                                                            |
| height                                                                                | 106 mm                                                                                                                                     |
| width                                                                                 | 90 mm                                                                                                                                      |
| depth                                                                                 | 470.5 mm                                                                                                                                   |
| fastening method                                                                      | Built-in unit fixed-mounted version                                                                                                        |
| fastening method                                                                      |                                                                                                                                            |
| • 4-hole front mounting                                                               | Yes                                                                                                                                        |
| • front mounting with central attachment                                              | No                                                                                                                                         |
| • rail mounting                                                                       | Yes                                                                                                                                        |
| net weight                                                                            | 758 g                                                                                                                                      |
| <b>Environmental conditions</b>                                                       |                                                                                                                                            |
| ambient temperature / during operation                                                |                                                                                                                                            |
| • minimum                                                                             | -25 °C                                                                                                                                     |
| • maximum                                                                             | 55 °C                                                                                                                                      |
| ambient temperature / during storage / minimum                                        | -25 °C                                                                                                                                     |
| <b>General Product Approval</b>                                                       |                                                                                                                                            |



[Miscellaneous](#)



| Declaration of Conformity | Test Certificates | Marine / Shipping | other |
|---------------------------|-------------------|-------------------|-------|
|---------------------------|-------------------|-------------------|-------|



EG-Konf.

[Special Test Certificate](#)



LRS



[Miscellaneous](#)

[Environmental Confirmations](#)

#### Further information

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=3LD2814-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2814-0TK53>

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

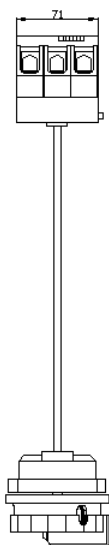
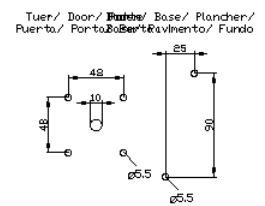
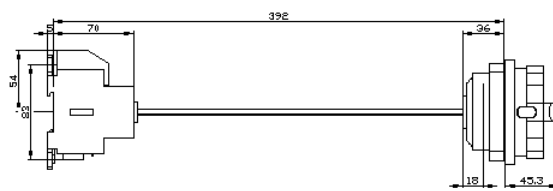
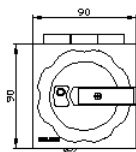
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2814-0TK53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2814-0TK53)

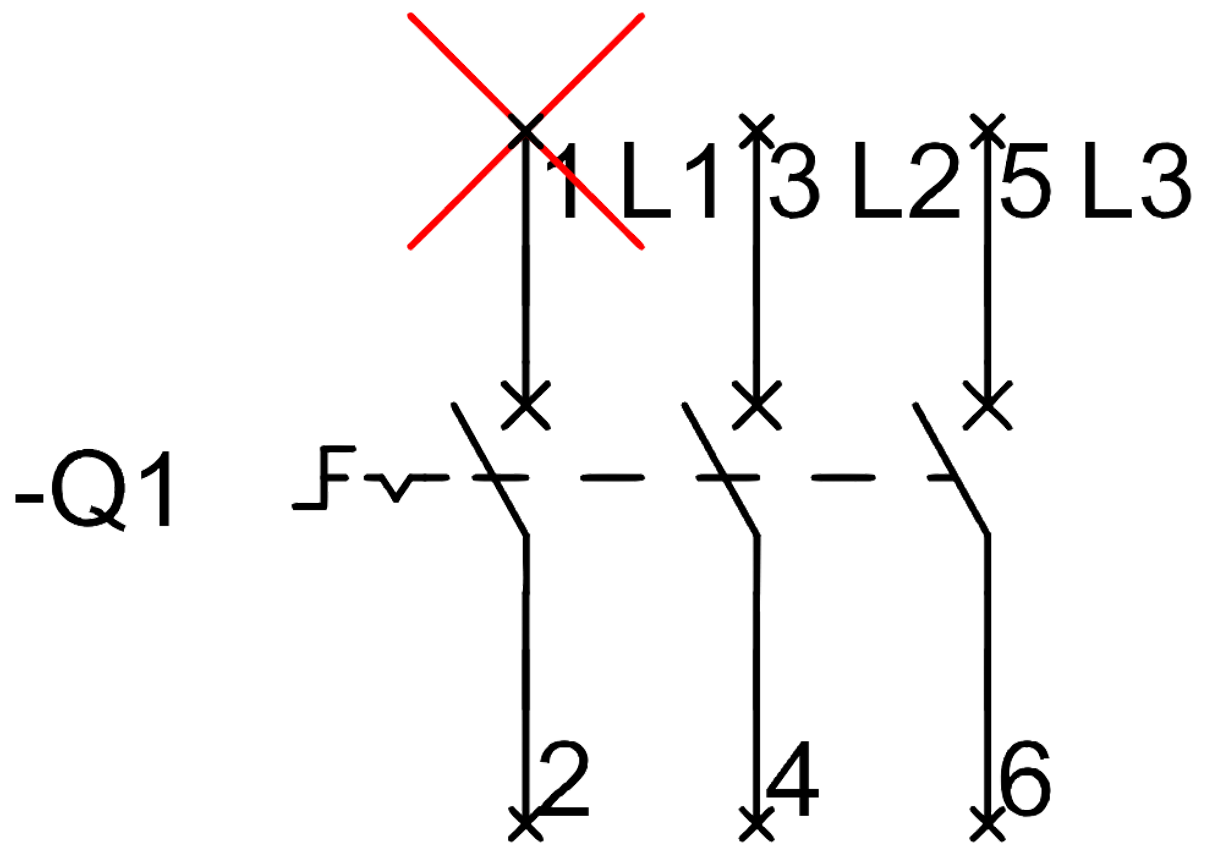
CAX-Online-Generator

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

Tender specifications

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





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