



SETRON, Switch disconnecter 3LD, emergency switching-off switch, 4- pole, I<sub>u</sub>=250 A, operating power / at AC-23 A 400 V: 132 kW, floor mounting with door coupling, knob-operated mechanism, red/yellow, 4-hole mounting of the handle

| Model                                                                                                                                                                                                                             |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| product brand name                                                                                                                                                                                                                | SETRON                              |
| product designation                                                                                                                                                                                                               | Switch disconnecter                 |
| design of the product                                                                                                                                                                                                             | EMERGENCY-STOP switch               |
| display version for switch position indicator manual operation                                                                                                                                                                    | 1 ON - 0 OFF                        |
| type of switch                                                                                                                                                                                                                    | Floor mounting with door coupling   |
| design of the actuating element                                                                                                                                                                                                   | selector switch                     |
| color of the actuating element                                                                                                                                                                                                    | red                                 |
| design of handle                                                                                                                                                                                                                  | knob-operated mechanism, red/yellow |
| type of the driving mechanism motor drive                                                                                                                                                                                         | No                                  |
| General technical data                                                                                                                                                                                                            |                                     |
| number of poles                                                                                                                                                                                                                   | 4                                   |
| size of switch disconnecter                                                                                                                                                                                                       | 5                                   |
| mechanical service life (operating cycles) typical                                                                                                                                                                                | 100 000                             |
| electrical endurance (operating cycles) <ul style="list-style-type: none"><li>• at AC-23 A at 690 V</li></ul>                                                                                                                     | 6 000                               |
| operating frequency maximum                                                                                                                                                                                                       | 50 1/h                              |
| degree of pollution                                                                                                                                                                                                               | 3                                   |
| Voltage                                                                                                                                                                                                                           |                                     |
| insulation voltage rated value                                                                                                                                                                                                    | 690 V                               |
| surge voltage resistance rated value                                                                                                                                                                                              | 8 kV                                |
| operating voltage <ul style="list-style-type: none"><li>• at AC rated value</li></ul>                                                                                                                                             | 690 V                               |
| operating frequency rated value <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>                                                                                                                       | 50 Hz<br>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                                                                                                                                               | 36 W                                |
| Main circuit                                                                                                                                                                                                                      |                                     |
| operational current <ul style="list-style-type: none"><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 400 V rated value</li><li>• at AC-21 A at 440 V rated value</li></ul> | 250 A<br>250 A<br>250 A<br>250 A    |

|                                                                                                                   |                        |
|-------------------------------------------------------------------------------------------------------------------|------------------------|
| <ul style="list-style-type: none"> <li>• at AC-23 A at 400 V rated value</li> </ul>                               | 224 A                  |
| <b>operating power</b>                                                                                            |                        |
| <ul style="list-style-type: none"> <li>• at AC-23 A at 240 V rated value</li> </ul>                               | 75 kW                  |
| <ul style="list-style-type: none"> <li>• at AC-23 A at 400 V rated value</li> </ul>                               | 132 kW                 |
| <ul style="list-style-type: none"> <li>• at AC-23 A at 440 V rated value</li> </ul>                               | 132 kW                 |
| <ul style="list-style-type: none"> <li>• at AC-23 A at 690 V rated value</li> </ul>                               | 55 kW                  |
| <ul style="list-style-type: none"> <li>• at AC-3 at 240 V rated value</li> </ul>                                  | 55 kW                  |
| <ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> </ul>                                  | 110 kW                 |
| <ul style="list-style-type: none"> <li>• at AC-3 at 690 V rated value</li> </ul>                                  | 45 kW                  |
| <b>Auxiliary circuit</b>                                                                                          |                        |
| number of CO contacts for auxiliary contacts                                                                      | 0                      |
| <b>number of NC contacts for auxiliary contacts</b>                                                               | 0                      |
| <b>number of NO contacts for auxiliary contacts</b>                                                               | 0                      |
| <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>                                                                   | Yes                    |
| <b>suitability for use safety switch</b>                                                                          | Yes                    |
| <b>suitability for use maintenance/repair switch</b>                                                              | Yes                    |
| <b>Product details</b>                                                                                            |                        |
| product feature can be locked into OFF position                                                                   | Yes                    |
| <b>accessories</b>                                                                                                |                        |
| <b>product extension optional</b>                                                                                 |                        |
| <ul style="list-style-type: none"> <li>• motor drive</li> </ul>                                                   | No                     |
| <ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>                                               | 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 ... 6 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> </ul>             | 15 kA                  |
| <ul style="list-style-type: none"> <li>• at 440 V for combination switch + gG fuse maximum</li> </ul>             | 15 kA                  |
| <ul style="list-style-type: none"> <li>• at 690 V for combination switch + gG fuse maximum permissible</li> </ul> | 15 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> </ul>             | 557 kA <sup>2</sup> .s |
| <ul style="list-style-type: none"> <li>• at 440 V for combination switch + gG fuse maximum</li> </ul>             | 557 kA <sup>2</sup> .s |
| <ul style="list-style-type: none"> <li>• at 690 V for combination switch + gG fuse maximum</li> </ul>             | 557 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> </ul>     | fuse gL/gG: 250 A      |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul> | fuse gL/gG: 10 A       |
| <b>operational current of upstream fuse rated value</b>                                                           | 250 A                  |
| <b>according UL</b>                                                                                               |                        |
| <b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>                                     | 250 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>                              | 100                    |
| <b>active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value</b>                              | 75                     |
| <b>short-time withstand current (SCCR) at 600 V according to</b>                                                  | 10 kA                  |

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UL 508/UL 60947-4-1</b>                                            |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| continuous current of upstream fuse according to UL rated value       | 200 A                                                                                                                                                                                                                                                                                                                                                                                                                        |
| type of fuse according to UL                                          | RK5                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Connections</b>                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AWG number as coded connectable conductor cross section solid maximum | 1<br>4/0                                                                                                                                                                                                                                                                                                                                                                                                                     |
| type of connectable conductor cross-sections for copper conductor     | 1x (16 ... 185mm <sup>2</sup> )<br>1x (16 ... 150mm <sup>2</sup> )<br>1x (16 ... 185mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                        |
| type of connectable conductor cross-sections for auxiliary contacts   | 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                                         | box terminal<br>connection terminals                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Mechanical Design</b>                                              |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| height                                                                | 169 mm                                                                                                                                                                                                                                                                                                                                                                                                                       |
| width                                                                 | 112 mm                                                                                                                                                                                                                                                                                                                                                                                                                       |
| depth                                                                 | 94 mm                                                                                                                                                                                                                                                                                                                                                                                                                        |
| type of device                                                        | fixed mounting                                                                                                                                                                                                                                                                                                                                                                                                               |
| fastening method                                                      | Built-in unit fixed-mounted version                                                                                                                                                                                                                                                                                                                                                                                          |
| fastening method                                                      | Yes<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                              |
| net weight                                                            | 3 351 g                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Environmental conditions</b>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ambient temperature during operation                                  | -25 °C<br>55 °C                                                                                                                                                                                                                                                                                                                                                                                                              |
| ambient temperature during storage                                    | -25 °C<br>55 °C                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Approvals Certificates</b>                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>General Product Approval</b>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |



[Confirmation](#)



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| other                         | Environment                                 |
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|                               | <a href="#">Environmental Confirmations</a> |
|                               | <a href="#">Environmental Confirmations</a> |

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| <b>Further information</b>                                                                                                                                                                                                                                                                                                                  |
| Information on the packaging<br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a><br>Information- and Downloadcenter (Catalogs, Brochures,...)<br><a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a> |

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2418-1TL13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2418-1TL13>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2418-1TL13](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2418-1TL13)

CAX-Online-Generator

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

Tender specifications

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





