



SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 100 A, operating power / at AC-23 A 400 V: 37 kW, front-mounted, rotary operating 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  | front mounted                          |
| design of the actuating element   | Short rotary knob                      |
| color of the actuating element  | red                                    |
| design of handle  | rotary operating mechanism, red/yellow |
| 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 | 7.5 W                                  |
| Main circuit  |  |
| operational current   |  |
| • at AC-21 at 690 V rated value   | 100 A                                  |
| • at AC-21 A at 240 V rated value   | 100 A                                  |
| • at AC-21 A at 400 V rated value   | 100 A                                  |
| • at AC-21 A at 440 V rated value   | 100 A                                  |
| • at AC-23 A at 400 V rated value   | 70 A                                   |

|  |                       |
|--|-----------------------|
| operating power  |                       |
| • at AC-23 A at 240 V rated value  | 18.5 kW               |
| • at AC-23 A at 400 V rated value  | 37 kW                 |
| • at AC-23 A at 440 V rated value  | 37 kW                 |
| • at AC-23 A at 690 V rated value  | 30 kW                 |
| • at AC-3 at 240 V rated value   | 18.5 kW               |
| • at AC-3 at 400 V rated value   | 30 kW                 |
| • at AC-3 at 690 V rated value   | 22 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                   |
| • switch disconnecter  | Yes                   |
| • EMERGENCY OFF switch   | Yes                   |
| • safety switch  | Yes                   |
| • maintenance/repair switch  | Yes                   |
| <b>Product details</b>   |                       |
| product feature can be locked into OFF position                                  | Yes                   |
| <b>accessories</b>   |                       |
| product extension optional   |                       |
| • motor drive  | No                    |
| • voltage trigger  | 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                 |                       |
| • at 690 V by gG fuse rated value  | 50 kA                 |
| let-through current with closed switch   |                       |
| • at 240 V for combination switch + gG fuse maximum                              | 10 kA                 |
| • at 440 V for combination switch + gG fuse maximum                              | 10 kA                 |
| • at 690 V for combination switch + gG fuse maximum permissible                  | 10 kA                 |
| I <sup>2</sup> t value with closed switch  |                       |
| • at 240 V for combination switch + gG fuse maximum                              | 64 kA <sup>2</sup> .s |
| • at 440 V for combination switch + gG fuse maximum                              | 64 kA <sup>2</sup> .s |
| • at 690 V for combination switch + gG fuse maximum                              | 64 kA <sup>2</sup> .s |
| design of the fuse link  |                       |
| • for short-circuit protection of the main circuit required                      | fuse gL/gG: 100 A     |
| • for short-circuit protection of the auxiliary switch required                  | fuse gL/gG: 10 A      |
| operational current of upstream fuse rated value                                 | 100 A                 |
| <b>according UL</b>  |                       |
| operational current at AC according to UL 508/UL 60947-4-1 rated value           | 100 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    | 60                    |
| active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value    | 75                    |
| short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1    | 10 kA                 |

|   |       |
|---|-------|
| continuous current of upstream fuse according to UL rated value | 200 A |
| type of fuse according to UL                                    | RK5   |

#### Connections

|   |  |
|---|--|
| AWG number as coded connectable conductor cross section solid maximum   |  |
| <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>  | 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   | 107 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   | 497 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

##### General Product Approval



[Confirmation](#)



##### General Product Approval

##### Marine / Shipping

##### other

[Miscellaneous](#)



[Miscellaneous](#)

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#### Environment

[Environmental Con-  
firmations](#)

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firmations](#)

## Further information

### Information on the packaging

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

### 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=3LD2704-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2704-0TK53>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2704-0TK53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2704-0TK53)

### CAX-Online-Generator

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

### Tender specifications

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





