## SIEMENS

#### Data sheet

### 3LD2130-0TK11



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, installation in distribution boards, knob-operated mechanism, black, handle direct at the switch

| Model  |                                |  |
|--|--------------------------------|--|
| product brand name   | SENTRON                        |  |
| product designation  | 3LD Switch disconnector        |  |
| design of the product  | Main switch                    |  |
| display version / for switch position indicator manual operation                                   | 1 ON - 0 OFF                   |  |
| design of the actuating element  | selector switch                |  |
| design of handle   | knob-operated mechanism, black |  |
| type of the driving mechanism / motor drive  | No                             |  |
| General technical data   |                                |  |
| number of poles  | 3                              |  |
| type of device   | fixed mounting                 |  |
| type of switch   | DIN-rail mounting              |  |
| size of switch disconnector  | 2                              |  |
| mechanical service life (switching cycles) / typical   | 100 000                        |  |
| electrical endurance (switching cycles)  |                                |  |
| • at AC-23 A / at 690 V  | 6 000                          |  |
| I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum             | 4 kA2.s                        |  |
| let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 4 kA2.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  | IP40                           |  |
| protection class IP / on the front   | IP40                           |  |
| Dissipation  |                                |  |
| power loss [W]   |                                |  |
| <ul> <li>for rated value of the current / at AC / in hot<br/>operating state / per pole</li> </ul> | 1.1 W                          |  |
| <ul> <li>per conductor / typical</li> </ul>  | 1 W                            |  |
| Current  |                                |  |
| operational current  |                                |  |
| <ul> <li>at 40 °C / rated value</li> </ul>   | 25 A                           |  |
| • at 45 °C / rated value   | 25 A                           |  |
| • at 50 °C / rated value   | 25 A                           |  |
| • at 55 °C / rated value   | 25 A                           |  |
| • at AC / rated value  | 25 A                           |  |

| a at AC 23 A / at 400 V / rated value   | 20 A                                     |
|---|--|
| at AC-23 A / at 400 V / rated value   | 20 A                                     |
| <ul> <li>at AC-21 / at 690 V / rated value</li> <li>at AC-21 A / at 240 V / rated value</li> </ul>  | 25 A<br>25 A                             |
| • at AC-21 A / at 440 V / rated value   | 25 A<br>25 A                             |
| operational current / of upstream fuse / rated value  | 25 A<br>25 A                             |
| let-through current / with closed switch  | 20 A                                     |
| <ul> <li>at 440 V / for combination switch + gG fuse /</li> </ul>   | 3.5 kA                                   |
| maximum   | 5.5 KA                                   |
| <ul> <li>at 690 V / for combination switch + gG fuse /<br/>maximum permissible</li> </ul>   | 4 kA                                     |
| Main circuit  |  |
|   |  |
| operating power   | E 1001                                   |
| • at AC-23 A / at 240 V / rated value   | 5 kW                                     |
| • at AC-23 A / at 400 V / rated value   | 10 kW                                    |
| at AC-23 A / at 440 V / rated value   | 9.5 kW                                   |
| at AC-23 A / at 690 V / rated value   | 10 kW                                    |
| • at AC-3 / at 240 V / rated value  | 4 kW                                     |
| <ul> <li>at AC-3 / at 400 V / rated value</li> </ul>  | 8 kW                                     |
| • at AC-3 / at 690 V / rated value  | 7.5 kW                                   |
| operational current / rated value   | 25 A                                     |
| Auxiliary circuit   |  |
| 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                                    |
| Suitability   |  |
| suitability for use   |  |
| main switch   | Yes                                      |
| switch disconnector   | Yes                                      |
| EMERGENCY OFF switch  | No                                       |
| safety switch   | Yes                                      |
| maintenance/repair switch   | Yes                                      |
| Appearance  |  |
| color / of the actuating element  | black                                    |
| č   | DIACK                                    |
| Product details   |  |
| product feature   | N/                                       |
| can be locked into OFF position   | Yes                                      |
| number of bracket locks / maximum   | 2  |
| hasp thickness / of the bracket locks / minimum   | 4 mm                                     |
| hasp thickness / of the bracket locks / maximum   | 6 mm                                     |
| product extension / optional  |  |
| <ul> <li>motor drive</li> </ul>   | No                                       |
|   |  |
| voltage trigger   | No                                       |
|   |  |
| voltage trigger   |  |
| voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection  |  |
| <ul> <li>voltage trigger</li> <li>Short circuit</li> <li>conditional short-circuit current / with line-side fuse<br/>protection</li> <li>at 690 V / by gG fuse / rated value</li> </ul>   | No                                       |
| • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection     • at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL  | No                                       |
| • voltage trigger Short circuit  conditional short-circuit current / with line-side fuse protection     • at 690 V / by gG fuse / rated value  according UL  operational current / at AC / according to UL 508/UL 60947-4-1 / rated value  operating voltage / at AC / at 50/60 Hz / according to UL  | No<br>50 kA                              |
| • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection     • at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL 60947-4-1 / rated value  | No<br>50 kA<br>25 A                      |
| • voltage trigger Short circuit  conditional short-circuit current / with line-side fuse protection     • at 690 V / by gG fuse / rated value  according UL  operational current / at AC / according to UL 508/UL 60947-4-1 / rated value  operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value  | No<br>50 kA<br>25 A<br>600 V             |
| <ul> <li>voltage trigger</li> <li>Short circuit</li> <li>conditional short-circuit current / with line-side fuse protection <ul> <li>at 690 V / by gG fuse / rated value</li> </ul> </li> <li>according UL <ul> <li>operational current / at AC / according to UL 508/UL 60947-4-1 / rated value</li> <li>operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value</li> <li>active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value</li> <li>active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value</li> </ul></li></ul> | No<br>50 kA<br>25 A<br>600 V<br>10<br>15 |
| • voltage trigger Short circuit      conditional short-circuit current / with line-side fuse protection     • at 690 V / by gG fuse / rated value      according UL      operational current / at AC / according to UL 508/UL     60947-4-1 / rated value      operating voltage / at AC / at 50/60 Hz / according to UL     508/UL 60947-4-1 / rated value      active power [hp] / at AC / at 480 V / according to UL     508/UL 60947-4-1 / rated value      active power [hp] / at AC / at 600 V / according to UL  | No<br>50 kA<br>25 A<br>600 V<br>10       |

| rated value   |                                     |
|---|-------------------------------------|
| type of fuse / according to UL  | RK5                                 |
| Number  |                                     |
| number of connectable NC contacts / for auxiliary contacts / attachable / maximum       | 2                                   |
| number of connectable NO contacts / for auxiliary contacts / attachable / maximum       | 4                                   |
| number of connectable CO contacts / for auxiliary contacts / attachable / maximum       | 0                                   |
| Connections   |                                     |
| AWG number / as coded connectable conductor cross                                       |                                     |
| section / solid   |                                     |
| • maximum   | 8                                   |
| • minimum   | 14                                  |
| type of connectable conductor cross-sections / for copper<br>conductor                  |                                     |
| • solid   | 1x (1,516mm²)                       |
| <ul> <li>finely stranded / with core end processing</li> </ul>                          | 1x (1,510mm²)                       |
| stranded  | 1x (1,516mm²)                       |
| type of connectable conductor cross-sections / for<br>auxiliary contacts                |                                     |
| • solid   | 2x (0.75 2.5 mm²), 1x 4 mm²         |
| <ul> <li>finely stranded / with core end processing</li> </ul>                          | 2x (0.75 1.5 mm²), 1x 2.5 mm²       |
| stranded  | 2x (0.75 2.5 mm²), 1x 4 mm²         |
| type of electrical connection   |                                     |
| <ul> <li>for main current circuit</li> </ul>  | box terminal                        |
| <ul> <li>for auxiliary contacts</li> </ul>  | connection terminals                |
| Requirements  |                                     |
| design of the fuse link   |                                     |
| <ul> <li>for short-circuit protection of the main circuit /<br/>required</li> </ul>     | fuse gL/gG: 25 A                    |
| <ul> <li>for short-circuit protection of the auxiliary switch /<br/>required</li> </ul> | fuse gL/gG: 10 A                    |
| Mechanical Design   |                                     |
| height  | 55 mm                               |
| width   | 53 mm                               |
| depth   | 91 mm                               |
| fastening method  | Built-in unit fixed-mounted version |
| fastening method  |                                     |
| <ul> <li>4-hole front mounting</li> </ul>   | No                                  |
| <ul> <li>front mounting with central attachment</li> </ul>                              | No                                  |
| rail mounting   | Yes                                 |
| net weight  | 165 g                               |
| Environmental conditions  |                                     |
| ambient temperature / during operation  |                                     |
| • minimum   | -25 °C                              |
| maximum   | 55 °C                               |
| ambient temperature / during storage / minimum  | -25 °C                              |
| General Product Approval  |                                     |
| Confirmation<br>CSA   | Miscellaneous<br>UL VDE             |
| General Product Declaration of Conformity   | Marine / Shipping other             |
|   |                                     |

# EHC





**Miscellaneous** 



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=3LD2130-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2130-0TK11

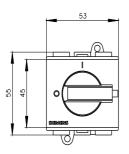
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2130-0TK11

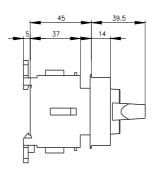
**CAx-Online-Generator** 

http://www.siemens.com/cax

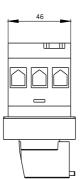
**Tender specifications** 

http://www.siemens.com/specifications









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