## **SIEMENS**

Data sheet 3LD3030-0TL11



Load disconnector 3LD3, Iu 16 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 7.5kW Installation in distribution boards, Basic switch with selector knob black

| Model   |                                |
|---|--------------------------------|
| product brand name  | SENTRON                        |
| product designation   | Switch disconnector            |
| design of the product   | Main switch                    |
| display version for switch position indicator manual operation                      | 1 ON - 0 OFF                   |
| type of switch  | DIN-rail mounting              |
| design of the actuating element   | selector switch                |
| color of the actuating element  | black                          |
| design of handle  | knob-operated mechanism, black |
| type of the driving mechanism motor drive   | No                             |
| General technical data  |                                |
| number of poles   | 4                              |
| number of poles note  | 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   | IP40                           |
| protection class IP on the front  | IP40                           |
| Dissipation   |                                |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 0.5 W                          |
| Main circuit  |                                |
| operational current   |                                |
| • at AC-21 at 690 V rated value   | 16 A                           |
| • at AC-21 A at 240 V rated value   | 16 A                           |
| • at AC-21 A at 400 V rated value   | 16 A                           |
| • at AC-21 A at 440 V rated value   | 16 A                           |
| • at AC-23 A at 400 V rated value   | 16 A                           |
| operating power   |                                |

| <ul> <li>at AC-23 A at 240 V rated value</li> </ul>                              | 3 kW                           |
|--|--------------------------------|
| <ul> <li>at AC-23 A at 400 V rated value</li> </ul>                              | 8 kW                           |
| <ul> <li>at AC-23 A at 440 V rated value</li> </ul>                              | 7.5 kW                         |
| <ul> <li>at AC-23 A at 690 V rated value</li> </ul>                              | 8 kW                           |
| <ul><li>at AC-3 at 240 V rated value</li></ul>                                   | 3 kW                           |
| <ul><li>at AC-3 at 400 V rated value</li></ul>                                   | 6 kW                           |
| at AC-3 at 690 V rated value   | 5.5 kW                         |
| 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                            |
| Product details  |                                |
| special product feature  | Can be locked in zero position |
| product feature can be locked into OFF position                                  | Yes                            |
| accessories  |                                |
| product extension optional   |                                |
| motor drive  | No                             |
|  | No                             |
| voltage trigger     number of connectable NC contacts for auxiliary contacts     | 2                              |
| 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                              |
| number of bracket locks maximum  | 2                              |
| hasp thickness of the bracket locks  | 4 6 mm                         |
| Short circuit  |                                |
| conditional short-circuit current with line-side fuse protection                 |                                |
| • at 440 V by gG fuse rated value  | 10 kA                          |
| • at 690 V by gG fuse rated value  | 6 kA                           |
| let-through current with closed switch   |                                |
| at 240 V for combination switch + gG fuse maximum                                | 3 kA                           |
| at 440 V for combination switch + gG fuse maximum                                | 3 kA                           |
| at 690 V for combination switch + gG fuse maximum                                | 3 kA                           |
| permissible  | V IV1                          |
| I2t value with closed switch   |                                |
| <ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>            | 2.5 kA2.s                      |
| • at 440 V for combination switch + gG fuse maximum                              | 2.5 kA2.s                      |
| • at 690 V for combination switch + gG fuse maximum                              | 3 kA2.s                        |
| design of the fuse link  |                                |
| for short-circuit protection of the main circuit required                        | fuse gL/gG: 20 A               |
| for short-circuit protection of the auxiliary switch required                    | fuse gL/gG: 10 A               |
| operational current of upstream fuse rated value                                 | 16 A                           |
| according UL   |                                |
| operational current at AC according to UL 508/UL 60947-4-1 rated value           | 16 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    | 7.5                            |
| active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value    | 10                             |
| short-time withstand current (SCCR) at 600 V according to UL                     | 5 kA                           |
| <del>-</del>   |                                |

| 508UL 60947-4-1 continuous current of upstream fuse according to UL rated value type of fuse according to UL         50 A           6 type of fuse according to UL         RKS           Connections           AWG pumber as coded connectable conductor cross section solid         4           • maximum         6           • minimum         14           • solid         1x (2.5 to 16 mm²)           • solid         1x (2.5 to 16 mm²)           • solid with core end processing type of connectable conductor cross-sections for auxiliary contacts         1x (2.5 to 16 mm²)           • solid solid with core end processing type of connectable conductor cross-sections for auxiliary contacts         2x (0.75 2.5 mm²), 1x 4 mm²           • solid stranded with core end processing type of electrical connection         2x (0.75 2.5 mm²), 1x 4 mm²           • for main current circuit type of electrical connection         box terminals           • for main current circuit type of electrical connection         box terminals           • for maxiliary contacts         Box terminals           Mechanical Design           Height width         60 mm           width depth type of device for auxiliary contacts         Fixed mounting           • for diavice front mounting         No           • forthour method         Fixed mounting           • forthour  |   |                                     |                           |  |
|--|---|-------------------------------------|---------------------------|--|
| type of fuse according to UL  Connectons  AWG number as coded connectable conductor cross section solid  • maximum  • maximum  • minimum  14  type of connectable conductor cross-sections for copper conductor  • solid  • inely stranded with core end processing • stranded  • solid  • finely stranded with core end processing • stranded  • for end in current circuit • for auxiliary contacts  • for main current circuit • for main current circuit • for auxiliary contacts  •  | 508/UL 60947-4-1  |                                     |                           |  |
| AWG number as coded connectable conductor cross section solid  maximum  minimum  14  by end connectable conductor cross-sections for copper conductor  solid  finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts  solid  finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts  solid finely stranded with core end processing stranded type of electrical connection for main current circuit for auxiliary contacts  box terminal to finely stranded with core end processing for main current circuit for auxiliary contacts  box terminal  Mechanical Design  height form depth form form form form form form form form   | continuous current of upstream fuse according to UL rated value | 50 A                                |                           |  |
| AWG number as coded connectable conductor cross section solid  maximum  minimum  type of connectable conductor cross-sections for copper conductor  solid  finely standed with core end processing solid solid finely stranded solid finely stranded with core end processing solid solid finely stranded with core end processing solid solid finely stranded for connectable conductor cross-sections for auxiliary contacts solid finely stranded for one connectable conductor cross-sections for auxiliary solid finely stranded for one connectable conductor cross-sections for auxiliary solid finely stranded for for auxiliary contacts solid for main current circuit for main current circuit for on auxiliary contacts solid for main current circuit for auxiliary contacts solid for for auxiliary contacts solid for auxiliary contacts solid for for main current for for auxiliary contacts solid for for main current for for main current for for main current for for main current for for main fixed for formalia for for main for fo | type of fuse according to UL                                    | RK5                                 |                           |  |
| solid         mximum         6           eminimum         14           type of connectable conductor cross-sections for copper conductor         x (2.5 to 16 mm²)           e solid         1x (2.5 to 16 mm²)           e stranded with core end processing         1x (2.5 to 16 mm²)           by e of connectable conductor cross-sections for auxiliary contacts         x (2.5 to 16 mm²)           e solid         2x (0.75 2.5 mm²), 1x 4 mm²           e stranded with core end processing         2x (0.75 2.5 mm²), 1x 4 mm²           e stranded         2x (0.75 2.5 mm²), 1x 4 mm²           type of electrical connection         5 or auxiliary contacts           e for auxiliary contacts         Box terminals           Mochanical Design         49 mm           Medpht         77 mm           depth         77 mm           depth         77 mm           depth         8 min           4 stening method         Built-in unit fixed-mounted version           6 stening method         Built-in unit fixed-mounted version           6 stening method         Built-in unit fixed-mounted version           6 rail mounting with central attachment         No           e rail mounting         Yes           net weight         20 0 g           Envi   | Connections   |                                     |                           |  |
| Marchael   |   |                                     |                           |  |
| type of connectable conductor cross-sections for copper conductor  solid finely stranded with core end processing solid solid stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing solid so | • maximum   | 6                                   |                           |  |
| conductor  • solid  • finely stranded with core end processing  • stranded  1x (2.5 to 16 mm²)  • stranded  1x (2.5 to 16 mm²)  • stranded  1x (2.5 to 16 mm²)  1x (2. | • minimum   | 14                                  |                           |  |
| • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for auxiliary contacts  • solid • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • stranded • stranded • for main current circuit • for main current circuit • for auxiliary contacts  Mechanical Design  height • for auxiliary contacts  60 mm  width 49 mm  depth 77 mm  type of elevice fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting  attachmental conditions  ambient temperature during operation • maximum  **Extranded**  **Incomparative during storage • minimum • 25 °C • maximum  **Extranded  **Incomparative during storage • minimum • 25 °C • maximum  **Extranded  **Incomparative during storage • minimum • 25 °C • maximum  **Extranded  **Incomparative during storage • minimum • 25 °C • maximum  **Extranded  **Incomparative during storage • minimum • 25 °C • maximum  **Extranded maximum  **Extranded maximum  **Extranded maximum  **Extranded maximum  **Incomparative during storage • minimum • 25 °C • maximum  **Extranded maximum  **Extranded maximum  **Extranded maximum  **Extranded maximum  **Extranded maximum  **Extranded maximum  **Incomparative during storage • minimum • 25 °C • maximum  **Extranded maximum  **E |   |                                     |                           |  |
| stranded type of connectable conductor cross-sections for auxiliary contacts  solid finely stranded with core end processing stranded type of electrical connection for main current circuit for auxiliary contacts  box terminals  Mechanical Design height depth fype of device fastening method fastening method for thor mounting front mounting with central attachment for all mounting height weight conditions  ### Conditions  #### Conditions  #### Conditions  #### Conditions  ### Conditions  #### Conditions  ##### Conditions  #### Conditions  ##### Conditions  ######## Conditions  ###################################  | • solid   | 1x (2.5 to 16 mm²)                  |                           |  |
| type of connectable conductor cross-sections for auxiliary contacts  • solid • finely stranded with core end processing • stranded 2x (0.75 2.5 mm²), 1x 4 mm² • stranded 2x (0.75 2.5 mm²), 1x 4 mm²  • stranded 2x (0.75 2.5 mm²), 1x 4 mm²  type of electrical connection • for main current circuit • for auxiliary contacts Box terminals  Mochanical Design  height 60 mm  width 49 mm  depth 77 mm  type of device fixed mounting fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting in the mounting  with twight 200 g  Environmental conditions  ambient temperature during operation • minimum • 25 °C  ambient temperature during storage • minimum • maximum • maximum • 75 °C  | <ul> <li>finely stranded with core end processing</li> </ul>    | 1x (2.516 mm²)                      |                           |  |
| contacts  • solid  • finely stranded with core end processing  • stranded  • stranded  2x (0.75 1.5 mm²), 1x 4 mm²  • stranded  2x (0.75 2.5 mm²), 1x 2.5 mm²  • stranded  2x (0.75 2.5 mm²), 1x 4 mm²  type of electrical connection  • for main current circuit  • for auxiliary contacts    Mechanical Design   Method               | • stranded  | 1x (2.5 to 16 mm²)                  |                           |  |
| • finely stranded with core end processing • stranded 2x (0.75 1.5 mm²), 1x 2.5 mm²  type of electrical connection • for main current circuit • for auxiliary contacts  Box terminal  for auxiliary contacts  Mechanical Design  height 60 mm  width 49 mm  depth 77 mm  type of device fastening method fastening method  4-hole front mounting • front mounting with central attachment • rail mounting  net weight  Environmental conditions  ambient temperature during operation • maximum  - maximum  - 25 °C  - maximum  - 25 °C  - maximum  - 25 °C   |   |                                     |                           |  |
| stranded   | • solid   | 2x (0.75 2.5 mm²), 1x 4 mm²         |                           |  |
| type of electrical connection  | <ul> <li>finely stranded with core end processing</li> </ul>    | 2x (0.75 1.5 mm²), 1x 2.5 mm²       |                           |  |
| • for main current circuit • for auxiliary contacts  Mechanical Design  height 60 mm  width 49 mm  depth 77 mm  type of device fastening method estening method • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight 200 g  Environmental conditions  ambient temperature during operation • minimum • maximum • maximum • maximum • 55 °C  maximum • 55 °C  | • stranded  | 2x (0.75 2.5 mm²), 1x 4 mm²         |                           |  |
| • for auxiliary contacts  Mechanical Design  height 60 mm  width 49 mm  depth 77 mm  type of device fixed mounting fastening method  • 4-hole front mounting with central attachment • rail mounting  net weight 200 g  Environmental conditions  ambient temperature during operation • minimum • maximum • rail mounting storage • minimum • 55 °C  ambient temperature during storage • minimum • -25 °C • maximum • 55 °C  | type of electrical connection                                   |                                     |                           |  |
| height 60 mm width 49 mm depth 77 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method • 4-hole front mounting No • front mounting with central attachment No • rail mounting Yes net weight 200 g  Environmental conditions  ambient temperature during operation • minimum • maximum  - 25 °C ambient temperature during storage • minimum - 25 °C  ambient temperature during storage • minimum - 25 °C  • maximum  - 25 °C  • maximum  - 25 °C  • maximum  - 25 °C   | for main current circuit  | box terminal                        |                           |  |
| height 60 mm  width 49 mm  depth 77 mm  type of device fixed mounting fastening method Built-in unit fixed-mounted version  fastening method  • 4-hole front mounting No  • front mounting with central attachment No  • rail mounting Yes  net weight 200 g  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55°C  ambient temperature during storage  • minimum  • -25°C  ambient temperature during storage  • minimum  • -25°C  • maximum  55°C  | <ul> <li>for auxiliary contacts</li> </ul>                      | Box terminals                       |                           |  |
| width 49 mm  depth 77 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method  • 4-hole front mounting • front mounting with central attachment No • rail mounting  rail mounting  respectively  respectively  maximum  -25 °C  ambient temperature during storage • minimum -25 °C   | Mechanical Design   |                                     |                           |  |
| depth 77 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method  • 4-hole front mounting  • front mounting with central attachment  • rail mounting  ret weight 200 g  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  -25 °C  -25 °C  -25 °C   | height  | 60 mm                               |                           |  |
| type of device fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during operation • maximum • maximum  - 25 °C ambient temperature during storage • minimum • maximum  - 25 °C  • maximum  - 25 °C  • maximum  - 25 °C   | width   | 49 mm                               |                           |  |
| fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting  net weight  Environmental conditions  ambient temperature during operation • maximum  • maximum  -25 °C  ambient temperature during storage • minimum  -25 °C  -25 °C  -55 °C   | depth   | 77 mm                               |                           |  |
| fastening method  • 4-hole front mounting  • front mounting with central attachment  • rail mounting  net weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55°C  ambient temperature during storage  • minimum  -25°C  -25°C  -25°C  -55°C  | type of device  | fixed mounting                      |                           |  |
| 4-hole front mounting     front mounting with central attachment     rail mounting     Yes  net weight     200 g  Environmental conditions  ambient temperature during operation     minimum     maximum     55 °C  ambient temperature during storage     minimum     -25 °C  ambient temperature during storage     minimum     55 °C  | fastening method  | Built-in unit fixed-mounted version |                           |  |
| front mounting with central attachment     rail mounting     ret weight     200 g  Environmental conditions  ambient temperature during operation     minimum     725 °C     maximum     55 °C  ambient temperature during storage     minimum     -25 °C  maximum     55 °C   | fastening method  |                                     |                           |  |
| <ul> <li>◆ rail mounting</li> <li>Net weight</li> <li>Environmental conditions</li> <li>ambient temperature during operation</li> <li>◆ minimum</li> <li>← maximum</li> <li>55 °C</li> <li>ambient temperature during storage</li> <li>♦ minimum</li> <li>← 25 °C</li> <li>ambient temperature during storage</li> <li>♦ minimum</li> <li>← 25 °C</li> </ul>   | <ul> <li>4-hole front mounting</li> </ul>                       | No                                  |                           |  |
| net weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  55°C  ambient temperature during storage  • minimum  • maximum  55°C   | <ul> <li>front mounting with central attachment</li> </ul>      | No                                  |                           |  |
| Environmental conditions  ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C   | rail mounting   | Yes                                 |                           |  |
| ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  -25 °C  • maximum  55 °C  | net weight  | 200 g                               |                           |  |
| <ul> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul>   | Environmental conditions  |                                     |                           |  |
| <ul> <li>maximum</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul>   | ambient temperature during operation                            |                                     |                           |  |
| ambient temperature during storage   | • minimum   | -25 °C                              |                           |  |
| <ul> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul>  | • maximum   | 55 °C                               |                           |  |
| • maximum 55 °C  | ambient temperature during storage                              |                                     |                           |  |
|  | • minimum   | -25 °C                              |                           |  |
| General Product Approval Declaration of Conformity   | maximum   | 55 °C                               |                           |  |
|  | General Product Approval  |                                     | Declaration of Conformity |  |



Confirmation









other Environment

<u>Confirmation</u> <u>Miscellaneous</u> <u>Environmental Confirmations</u>

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3LD3030-0TL11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3030-0TL11

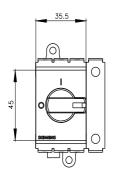
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3030-0TL11">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3030-0TL11</a>

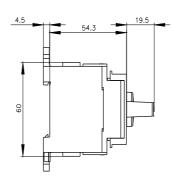
CAx-Online-Generator

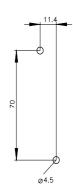
http://www.siemens.com/cax

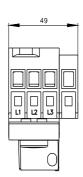
**Tender specifications** 

http://www.siemens.com/specifications









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