## **SIEMENS**

Data sheet 3LD3130-1TK13



Load disconnector 3LD3, lu 25 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 9.0kW Installation in distribution boards, Basic switch with selector knob red / yellow with auxiliary switch 10E + 1S

| Model   |                                     |  |
|---|-------------------------------------|--|
| product brand name  | SENTRON                             |  |
| product designation   | Switch disconnector                 |  |
| design of the product   | EMERGENCY-STOP 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  | red                                 |  |
| design of handle  | knob-operated mechanism, red/yellow |  |
| type of the driving mechanism motor drive   | No                                  |  |
| General technical data  |                                     |  |
| number of poles   | 3                                   |  |
| number of poles note  | 3                                   |  |
| 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 | 1.1 W                               |  |
| Main circuit  |                                     |  |
| operational current   |                                     |  |
| • at AC-21 at 690 V rated value   | 25 A                                |  |
| • at AC-21 A at 240 V rated value   | 25 A                                |  |
| • at AC-21 A at 400 V rated value   | 25 A                                |  |
| • at AC-21 A at 440 V rated value   | 25 A                                |  |
| • at AC-23 A at 400 V rated value   | 20 A                                |  |
| operating power   |                                     |  |

| <ul> <li>at AC-23 A at 240 V rated value</li> </ul>                              | 4 kW                           |  |  |
|--|--------------------------------|--|--|
| <ul> <li>at AC-23 A at 400 V rated value</li> </ul>                              | 10 kW                          |  |  |
| <ul> <li>at AC-23 A at 440 V rated value</li> </ul>                              | 9 kW                           |  |  |
| <ul> <li>at AC-23 A at 690 V rated value</li> </ul>                              | 9 kW                           |  |  |
| <ul><li>at AC-3 at 240 V rated value</li></ul>                                   | 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                         |  |  |
| Auxiliary circuit  |                                |  |  |
| number of CO contacts for auxiliary contacts                                     | 0                              |  |  |
| number of NC contacts for auxiliary contacts                                     | 1                              |  |  |
| number of NO contacts for auxiliary contacts                                     | 1                              |  |  |
| 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   | Yes                            |  |  |
| • 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                 |                                |  |  |
| <ul> <li>at 440 V by gG fuse rated value</li> </ul>                              | 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                                | 3.5 kA                         |  |  |
| • at 440 V for combination switch + gG fuse maximum                              | 3.5 kA                         |  |  |
| • at 690 V for combination switch + gG fuse maximum                              | 4 kA                           |  |  |
| permissible  |                                |  |  |
| I2t value with closed switch   |                                |  |  |
| • at 240 V for combination switch + gG fuse maximum                              | 4 kA2.s                        |  |  |
| • at 440 V for combination switch + gG fuse maximum                              | 4 kA2.s                        |  |  |
| • at 690 V for combination switch + gG fuse maximum                              | 4 kA2.s                        |  |  |
| design of the fuse link  |                                |  |  |
| for short-circuit protection of the main circuit required                        | fuse gL/gG: 25 A               |  |  |
| for short-circuit protection of the auxiliary switch required                    | fuse gL/gG: 10 A               |  |  |
| operational current of upstream fuse rated value                                 | 25 A                           |  |  |
| according UL   |                                |  |  |
| operational current at AC according to UL 508/UL 60947-4-1 rated value           | 25 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    | 10                             |  |  |
| active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value    | 15                             |  |  |
| short-time withstand current (SCCR) at 600 V according to UL                     | 5 kA                           |  |  |
|  |                                |  |  |

| 508/UL 60947-4-1         50 A           continuous current of upstream fuse according to UL rated value fupe of fuse according to UL         RKS           Connections           AWG number as coded connectable conductor cross section solid           e maximum         6           e minimum         14           type of connectable conductor cross-sections for copper conductor         solid           e solid         1x (2.5 to 16 mm²)           e solid         1x (2.5 to 16 mm²)           e solid         1x (2.5 to 16 mm²)           e solid         2x (0.75 2.5 mm²), 1x 4 mm²           type of connectable conductor cross-sections for auxiliary contacts         2x (0.75 2.5 mm²), 1x 4 mm²           e solid         2x (0.75 2.5 mm²), 1x 4 mm²           for energy for electrical connection         60 fmm²           e for main current circuit         box terminal           e for auxiliary contacts         Box terminals           Mechanical Design           meight         60 mm           width         47 mm           deepth         77 mm           type of device         fixed mounting           e A-bole front mounting         No           e Inform method         fixed mounting <td< th=""><th></th><th></th><th></th></td<>  |   |                                     |                           |  |
|--|---|-------------------------------------|---------------------------|--|
| type of fuse according to UL  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 • solid • solid • solid • for efficient connectable conductor cross-sections for auxiliary contacts • solid • for finely stranded with core end processing • solid • for finely stranded with core end processing • solid • for inely stranded with core end processing • solid • for main current circuit • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for device • for device • for device • fixed mounting • front mounting with central attachment • rail mounting • front mounting with central attachment • rail mounting • front mounting with central attachment • rail mounting • fixed mounting •  | 508/UL 60947-4-1  |                                     |                           |  |
| AWS number as coded connectable conductor cross section solid  maximum  minimum  14  type of connectable conductor cross-sections for copper conductor  stranded  finely stranded with core end processing stranded  type of connectable conductor cross-sections for auxiliary contects  solid  finely stranded with core end processing stranded  type of connectable conductor cross-sections for auxiliary contects  solid finely stranded with core end processing stranded  2x (0.75 2.5 mm²), 1x 4 mm²  type of electrical connection for main current circuit for auxiliary contacts  box terminal  box terminal  Mochanical Dosign  Mochanical Dosign  Mochanical Dosign  Mochanical Dosign  Mochanical Dosign  fastening method fastening method  fastening method  4-hole front mounting fastening method  -4-hole front mounting -4-hole front mounting -7 mm  forate mounting -7 monunting      | 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 stranded solid  finely standed with core end processing solid finely stranded with core end processing solid finely stranded finely stranded with core end processing solid finely stranded finely stranded with core end processing solid finely stranded  | type of fuse according to UL                                    | RK5                                 |                           |  |
| solid         mxximum         6           eminimum         14           type of connectable conductor cross-sections for copper conductor         x           e solid         1x (2.5 to 16 mm²)           e stranded with core end processing         1x (2.5 to 16 mm²)           e stranded vith core end processing of auxiliary contacts         x (2.5 to 16 mm²)           e solid         2x (0.75 2.5 mm²), 1x 4 mm²           e solid         2x (0.75 2.5 mm²), 1x 2.5 mm²           e stranded with core end processing         2x (0.75 2.5 mm²), 1x 2.5 mm²           e stranded of electrical connection         5 to real numery of electrical connection           e for electrical connection         box terminals           for auxiliary contacts         Box terminals           Mochanical Dosign         47 mm           Meghth         77 mm           type of device         fixed mounting           fastening method         Built-in unit fixed-mounted version           estening method         Built-in unit fixed-mounted version           e front mounting with central attachment         No           e rail mounting         Yes           net weight         200 g           Environmental conditions         55 °C           ambient temperature during operation  | Connections   |                                     |                           |  |
| type of connectable conductor cross-sections for copper conductor cross-sections for copper conductor cross-sections for copper conductor cross-sections for copper stranded with core end processing 1x (2.5. to 16 mm²)  • stranded 1x (2.5. to 16 mm²)  type of connectable conductor cross-sections for auxiliary contacts  • solid 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  • stranded 2x (0.75 2.5 mm²), 1x 4 mm²  • type of electrical connection  • for main current circuit box terminal Box terminals  **Mochanical Dosign**  **Mochanical Dosign**  **Mediant Arm 47 mm  **depth 77 mm  **type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method Built-in unit fixed-mounted version  fastening method No Posign**  • front mounting with central attachment No Serior auxiliary contacts No Serior                   |   |                                     |                           |  |
| type of connectable conductor cross-sections for copper conductor  solid finely stranded with core end processing solid finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing finely stranded with core end processing solid finely stranded with core end processing for solid for auxiliary contacts  solid for an unrent circuit for an unrent circuit for auxiliary contacts  box terminal for auxiliary contacts  Box terminals  Machanical Design  height for device fixed mounting fastening method fastening fastening fastening fastening fa | • maximum   | 6                                   |                           |  |
| 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  2x (0.75 2.5 mm²), 1x 4 mm²  • finely stranded with core end processing  • stranded  2x (0.75 2.5 mm²), 1x 4 mm²  • transport of electrical connection  • for main current circuit  • for auxiliary contacts  Box terminal  Box terminals  Mochanical Dosign  height  • for auxiliary contacts  60 mm  width  depth  77 mm  type of device  fastening method  fastening method  • 4-hole front mounting  • front mounting with central attachment  • rail mounting  • rront mounting with central attachment  • rail mounting  met weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  ambient temperature during storage  • minimum  • maximum  - 25 °C  • maximum  ambient temperature during storage  • minimum  • rain mounting  • minimum  • cab °C  • minimum  - 25 °C  • minimum  • maximum  - 25 °C  • minimum  • 25 °C  • minimum  • minimum  • minimum  • minimum  • minimum  • 25 °C  • minimum  • minimum  • minimum  • minimum  • minimum  • 25 °C  | • minimum   | 14                                  |                           |  |
| • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • solid • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • stranded • stranded • stranded • for main current circuit • for main current circuit • for auxiliary contacts  ### Moderatical Design  ### Meight ### Moderatical Design  ### Moderatical Desi |   |                                     |                           |  |
| 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 main current circuit for main current circuit for auxiliary contacts  Mochanical Design height height for device fastening method fastening method fastening method front mounting front mounting with central attachment for all mounting for main mounting method for method for method for method for method for method for method fastening method fastening method fastening method fastening method fastening method for method mounting for method for method mounting for method mounting for method for me  | • 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 2.5 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 47 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 in the mounting  error weight 200 g  Environmental conditions  ambient temperature during operation • minimum • maximum • maximum • 25 °C  maximum • maximum • maximum • 75 °C  | <ul> <li>finely stranded with core end processing</li> </ul>    | 1x (2.516 mm²)                      |                           |  |
| contacts  • solid  • 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 4 mm²  type of electrical connection  • for main current circuit  • for auxiliary contacts  Mechanical Design  height  60 mm  width  47 mm  depth  77 mm  type of device  fixed mounting  fastening method  4stening method  • 4-hole front mounting  • front mounting with central attachment  • rail mounting  net weight  200 g  Environmental conditions  ambient temperature during operation  • maximum  • maximum  -25 °C  ambient temperature during storage  • minimum  • 25 °C  • maximum  -25 °C  • maximum  -25 °C  • minimum  • 25 °C  • minimum  • 25 °C  • minimum  • maximum  -25 °C  | • 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 terminals  Mechanical Design height 60 mm width 47 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 • maximum  - 25 °C - maximum - maximum - for incurrent circuit box terminals  box terminal box terminals  Box terminal box terminals  No  When  Box terminals  Box termina      |   |                                     |                           |  |
| 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 47 mm  depth 77 mm  type of device fastening method fastening 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 • for auxiliary contacts  box terminal  Box terminals  80x te  | • stranded  | 2x (0.75 2.5 mm²), 1x 4 mm²         |                           |  |
| • for auxiliary contacts  Mechanical Design  height 60 mm  width 47 mm  depth 77 mm  type of device fixed mounting fastening method fastening method • 4-hole front mounting with central attachment No • rail mounting yith central attachment Yes net weight 200 g  Environmental conditions  ambient temperature during operation • minimum -25 °C ambient temperature during storage • minimum • maximum -25 °C amainment temperature during storage • minimum -25 °C  • maximum -25 °C  • maximum -25 °C  • maximum -25 °C  • maximum -25 °C  | type of electrical connection                                   |                                     |                           |  |
| height 60 mm width 47 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  • maximum  - 25 °C   | for main current circuit  | box terminal                        |                           |  |
| height 60 mm  width 47 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 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  ambient maximum 55°C  | <ul> <li>for auxiliary contacts</li> </ul>                      | Box terminals                       |                           |  |
| width 47 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  net weight 200 g  Environmental conditions  ambient temperature during operation • minimum • maximum  -25 °C  ambient temperature during storage • minimum • minimum -25 °C  ambient temperature during storage • minimum • maximum -25 °C   | Mechanical Design   |                                     |                           |  |
| depth 77 mm  type of device fixed mounting  fastening method Built-in unit fixed-mounted version  fastening method   | 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 • minimum • maximum  -25 °C ambient temperature during storage • minimum • maximum  -25 °C  • maximum  -25 °C  • maximum  -25 °C   | width   | 47 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  • maximum  -25 °C  -25 °C  -25 °C   | depth   | 77 mm                               |                           |  |
| fastening method  • 4-hole front mounting  • front mounting with central attachment  • rail mounting  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  • maximum  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>Environmental conditions</li> <li>ambient temperature during operation</li> <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>ambient temperature during storage</li> <li>◆ maximum</li> <li>55 °C</li> </ul>  | 4-hole front mounting   | 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  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>Miscellaneous</u> <u>Confirmation</u> <u>Environmental Confirmations</u>

## Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$ 

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=3LD3130-1TK13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3130-1TK13

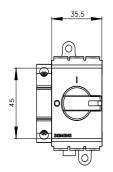
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3130-1TK13">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3130-1TK13</a>

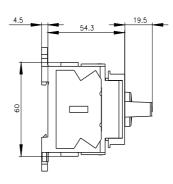
CAx-Online-Generator

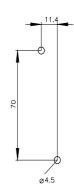
http://www.siemens.com/cax

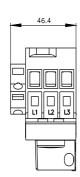
**Tender specifications** 

http://www.siemens.com/specifications









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