## SIEMENS

## Data sheet

## 3LD3240-1TK13



Load disconnector 3LD3, lu 32 A Main switch 3-pole Rated operating capacity for AC-23 A at 400V 11.5kW floor mounting Basic switch with door coupling Central hole mounting 22.5mm Toggle drive red / yellow 48x48 mm with auxiliary switch 10E + 1S

| product brand name         SENTRON           product designation         3LD Switch disconnector           design of the product         EMERCENCY-STOP switch           display version / for switch position indicator manual operation         1ON - 0 OFF           type of switch         Floor mounting with door coupling           design of the actualing element         red           number of poles         3           number of poles / note         3           number of poles / note         3           ext AC-23 Ar at 800 V         6000           operating frequency / maximum         601 Vh           surge voltage resistance / rated value         690 V           operating frequency / rated value                                  | Model  |                                     |  |
|--|--|-------------------------------------|--|
| design of the product         EMERGENCY-STOP switch           display version / for switch position indicator manual<br>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 the actuating element         who-operated mechanism, red/yellow           number of poles         3           number of poles         3           number of poles         3           mountain deviance (switching cycles) / typical         100 000           electrical actuating element         6           watter         6000           operating frequency /                      | product brand name                                   | SENTRON                             |  |
| display version / for switch position indicator manual<br>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 switch     No       operal technical data     number of poles       number of poles / note     3       mechanical service life (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     100 000       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     680 V       insulation voltage / rated value     690 V       operating frequency / rated value     690 V       operating frequency / rated value     690 V       operating frequency / rated value     600 V       operating frequency / rated value     60 Hz       Protection class IP     IP65       degree of potection NEMA rating     1, 3R, 4X, 12       protection class IP / on the front     IP65       Dissipation     1.8 W       power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       Current     32 A    < | product designation                                  | 3LD Switch disconnector             |  |
| operation         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  | design of the product                                | EMERGENCY-STOP switch               |  |
| 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         number of poles / note       3         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles) / typical       6 000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       insulation voltage / rated value         operating frequency / maximum       680 V         surge voltage resistance / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value<                                |  | 1 ON - 0 OFF                        |  |
| color / of the actuating element       red         design of handle       knob-operated mechanism, red/yellow         kype of the driving mechanism / motor drive       No         General tochnical data  | type of switch                                       | Floor mounting with door coupling   |  |
| design of handle       knob-operated mechanism, red/yellow         type of the driving mechanism / motor drive       No         Genoral technical data   | design of the actuating element                      | selector switch                     |  |
| type of the driving mechanism / motor drive       No         General technical data  | color / of the actuating element                     | red                                 |  |
| General technical data       3         number of poles       3         number of poles / note       3         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles)       6 000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage / rated value       690 V         operating voltage resistance / rated value       690 V         operating voltage       61 V         operating requency / rated value       690 V         operating voltage       61 V         operating requency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       690 V         operating frequency / rated value       690 V         operating frequency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       690 V         operating frequency / rated value       690 V         operation class IP       IP65         protection class IP       IP65         operational current / rated value of the current / at AC / in<br>hot operating state / per pole   | design of handle                                     | knob-operated mechanism, red/yellow |  |
| number of poles         3           number of poles / note         3           mechanical service life (switching cycles) / typical         100 000           electrical endurance (switching cycles)         6 000           operating frequency / maximum         60 1/h           degree of pollution         3 <b>Voltage</b> 690 V           insulation voltage / rated value         690 V           surge voltage resistance / rated value         690 V           operating voltage         64V           • at AC / rated value         690 V           operating trequency / rated value         690 V           operating reguency / rated value         690 V           operating trequency / rated value         690 V           operating frequency / rated value         690 V           operating frequency / rated value         690 V           operating reguency / rated value         690 V           operating requency / rated value         690 V           operating frequency / rated value         690 V           operating reguency / rated value         690 V           operation class IP         IP65           Dissipation         IP65           Dissipation         IP65           Operational current / rated val  | type of the driving mechanism / motor drive          | No                                  |  |
| number of poles / note       3         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles)       6         • at AC-23 A / at 690 V       6 000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage / rated value       690 V         surge voltage resistance / rated value       690 V         operating voltage       64 V         operating frequency / rated value       690 V         operating frequency / rated value       60 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front <td>General technical data</td> <td></td>                             | General technical data                               |                                     |  |
| mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles)       6 000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       insulation voltage / rated value         insulation voltage / rated value       690 V         operating trequency / rated value       690 V         operating voltage       6100         • at AC / rated value       690 V         operating voltage       690 V         • at AC / rated value       690 V         operating trequency / rated value       690 V         operating trequency / rated value       690 V         operating frequency / rated value       600 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.8 W         poperating state / per pole       32 A         operational current / rated value       32 A </td <td>number of poles</td> <td>3</td>                                     | number of poles                                      | 3                                   |  |
| electrical endurance (switching cycles)       6 000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage / rated value       690 V         surge voltage resistance / rated value       690 V         operating voltage       6 kV         operating voltage       6 kV         operating frequency / maximum       50 Hz         e at AC / rated value       690 V         operating frequency / rated value       600 V         operating frequency / rated value       50 Hz         • maximum       60 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.8 W         pover loss [W] / for rated value of the current / at AC / in hot operating state / per pole       32 A         operational current       32 A <td>number of poles / note</td> <td>3</td>  | number of poles / note                               | 3                                   |  |
| • at AC-23 A / at 690 V         6 000           operating frequency / maximum         50 1/h           degree of pollution         3           Voltage         insulation voltage / rated value           insulation voltage / rated value         690 V           surge voltage resistance / rated value         690 V           operating voltage         64 KV           • at AC / rated value         690 V           operating requency / rated value         690 V           operating frequency / rated value         50 Hz           emaximum         60 Hz           Protection class IP         IP65           degree of protection NEMA rating         1, 3R, 4X, 12           protection class IP / on the front         IP65           Dissipation         1.8 W           power loss [W] / for rated value of the current / at AC / in hot operating state / per p                       | mechanical service life (switching cycles) / typical | 100 000                             |  |
| operating frequency / maximum         50 1/h           degree of pollution         3           Voltage         690 V           insulation voltage / rated value         690 V           surge voltage resistance / rated value         690 V           operating voltage         690 V           • at AC / rated value         690 V           operating frequency / rated value         600 V           operating frequency / rated value         600 V           operating frequency / rated value         700 V           operating frequency / rated value         1, 3R, 4X, 12           protection class IP         IP65           Dissipation         IP65           Dissipation         1.8 W           power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         32 A           operational current / rated value         32 A           operational current / at 40 °C / rated value         32 A <td>electrical endurance (switching cycles)</td> <td></td>          | electrical endurance (switching cycles)              |                                     |  |
| degree of pollution       3         Voltage       insulation voltage / rated value       690 V         surge voltage resistance / rated value       6 kV         operating voltage       690 V         • at AC / rated value       690 V         operating frequency / rated value       690 V         • maximum       50 Hz         • maximum       60 Hz         Protection class       IP65         geree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.8 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       32 A         operational current       32 A   | • at AC-23 A / at 690 V                              | 6 000                               |  |
| Voltage       690 V         insulation voltage / rated value       690 V         surge voltage resistance / rated value       6 kV         operating voltage       690 V         operating frequency / rated value       690 V         operating frequency / rated value       690 V         operating frequency / rated value       60 Hz         • maximum       60 Hz         Protection class       1, 3R, 4X, 12         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.8 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       32 A         operational current       32 A  | operating frequency / maximum                        | 50 1/h                              |  |
| insulation voltage / rated value       690 V         surge voltage resistance / rated value       6 kV         operating voltage       690 V         • at AC / rated value       690 V         operating frequency / rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       1, 3R, 4X, 12         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       IP65         current       0perating state / per pole         operational current / rated value       32 A         operational current       32 A  | degree of pollution                                  | 3                                   |  |
| surge voltage resistance / rated value       6 kV         operating voltage       690 V         operating frequency / rated value       690 V         operating frequency / rated value       60 Hz         • minimum       50 Hz         • maximum       60 Hz         Protection class       IP65         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       IP65         current       32 A         operational current       32 A   | Voltage  |                                     |  |
| operating voltage     690 V       operating frequency / rated value     690 V       operating frequency / rated value     50 Hz       ominimum     60 Hz       Protection class     60 Hz       protection class IP     IP65       degree of protection NEMA rating     1, 3R, 4X, 12       protection class IP / on the front     IP65       Dissipation     1.8 W       power loss [W] / for rated value of the current / at AC / in hot operating state / per pole     32 A       operational current     32 A  | insulation voltage / rated value                     | 690 V                               |  |
| • at AC / rated value       690 V         operating frequency / rated value       50 Hz         • 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         Current       32 A         operational current / rated value       32 A   | surge voltage resistance / rated value               | 6 kV                                |  |
| operating frequency / rated value       50 Hz         • 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       1.8 W         Current       32 A         operational current       32 A   | operating voltage                                    |                                     |  |
| <ul> <li>minimum</li> <li>maximum</li> <li>50 Hz</li> <li>maximum</li> <li>60 Hz</li> <li>Protection class</li> <li>protection class IP</li> <li>IP65</li> <li>degree of protection NEMA rating</li> <li>protection class IP / on the front</li> <li>IP65</li> <li>Dissipation</li> <li>power loss [W] / for rated value of the current / at AC / in hot operating state / per pole</li> <li>Current</li> <li>operational current / rated value</li> <li>32 A</li> <li>operational current</li> <li>• at 40 °C / rated value</li> <li>32 A</li> </ul>  | <ul> <li>at AC / rated value</li> </ul>              | 690 V                               |  |
| maximum 60 Hz      Protection class      protection class IP     degree of protection NEMA rating     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      Current     operational current / rated value     32 A      operational current     • at 40 °C / rated value     32 A   | operating frequency / rated value                    |                                     |  |
| Protection class       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       IP65         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.8 W         Current       32 A         operational current / rated value       32 A  | • minimum  | 50 Hz                               |  |
| protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       IP65         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.8 W         Current       32 A         operational current / rated value       32 A         operational current       32 A  | • maximum  | 60 Hz                               |  |
| 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       1.8 W         Current          operational current / rated value       32 A         operational current          • at 40 °C / rated value       32 A   | Protection class                                     |                                     |  |
| protection class IP / on the front       IP65         Dissipation       IP65         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.8 W         Current       0perational current / rated value         operational current       32 A         operational current       32 A   | protection class IP                                  | IP65                                |  |
| Dissipation         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.8 W         Current       operational current / rated value       32 A         operational current       32 A         • at 40 °C / rated value       32 A  | degree of protection NEMA rating                     | 1, 3R, 4X, 12                       |  |
| power loss [W] / for rated value of the current / at AC / in       1.8 W         hot operating state / per pole       1.8 W         Current       operational current / rated value         operational current       32 A         operational current       32 A         operational current       32 A   | protection class IP / on the front                   | IP65                                |  |
| hot operating state / per pole       Current       operational current / rated value     32 A       operational current     32 A       • at 40 °C / rated value     32 A   | Dissipation  |                                     |  |
| operational current / rated value     32 A       operational current     32 A       • at 40 °C / rated value     32 A  |  | 1.8 W                               |  |
| operational current     32 A   | Current  |                                     |  |
| • at 40 °C / rated value 32 A  | operational current / rated value                    | 32 A                                |  |
|  | operational current                                  |                                     |  |
| • at 45 °C / rated value 32 A  | • at 40 °C / rated value                             | 32 A                                |  |
|  | • at 45 °C / rated value                             | 32 A                                |  |

| a at E0 °C / rated value  | 22.4                           |
|---|--------------------------------|
| • at 50 °C / rated value  | 32 A                           |
| • at 55 °C / rated value  | 32 A                           |
| at AC / rated value   | 32 A                           |
| Main circuit  |                                |
| operational current   |                                |
| <ul> <li>at AC-21 / at 690 V / rated value</li> </ul>                 | 32 A                           |
| <ul> <li>at AC-21 A / at 240 V / rated value</li> </ul>               | 32 A                           |
| <ul> <li>at AC-21 A / at 400 V / rated value</li> </ul>               | 32 A                           |
| <ul> <li>at AC-21 A / at 440 V / rated value</li> </ul>               | 32 A                           |
| at AC-23 A / at 400 V / rated value                                   | 22 A                           |
| operating power   |                                |
| <ul> <li>at AC-23 A / at 240 V / rated value</li> </ul>               | 6 kW                           |
| <ul> <li>at AC-23 A / at 400 V / rated value</li> </ul>               | 12 kW                          |
| <ul> <li>at AC-23 A / at 440 V / rated value</li> </ul>               | 11.5 kW                        |
| <ul> <li>at AC-23 A / at 690 V / rated value</li> </ul>               | 12 kW                          |
| <ul> <li>at AC-3 / at 240 V / rated value</li> </ul>                  | 5.5 kW                         |
| • at AC-3 / at 400 V / rated value                                    | 10 kW                          |
| • at AC-3 / at 690 V / rated value                                    | 9.5 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                            |
| <ul> <li>switch disconnector</li> </ul>                               | Yes                            |
| <ul> <li>EMERGENCY OFF switch</li> </ul>                              | Yes                            |
| <ul> <li>safety switch</li> </ul>                                     | Yes                            |
| <ul> <li>maintenance/repair switch</li> </ul>                         | 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                             |
| voltage trigger   | No                             |
| number of connectable NC contacts / for auxiliary contacts            | 2                              |
| / attachable / maximum  |                                |
| number of connectable NO contacts / for auxiliary contacts            | 4                              |
| / attachable / maximum  |                                |
| number of connectable CO contacts / for auxiliary contacts            | 0                              |
| / attachable / maximum  |                                |
| 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<br>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 /                       | 4.5 kA                         |
| maximum   |                                |
| • at 440 V / for combination switch + gG fuse /                       | 4.5 kA                         |
| maximum   |                                |
| • at 690 V / for combination switch + gG fuse /                       | 5 kA                           |
| maximum permissible   |                                |
| I2t value / with closed switch  |                                |
| <ul> <li>at 240 V / for combination switch + gG fuse /</li> </ul>     | 9 kA2.s                        |

| maximum   |  |
|---|--|
| <ul> <li>at 440 V / for combination switch + gG fuse /</li> </ul>                           | 9 kA2.s  |
| maximum   |  |
| at 690 V / for combination switch + gG fuse / maximum                                       | 9 kA2.s  |
| design of the fuse link   |  |
| <ul> <li>for short-circuit protection of the main circuit /<br/>required</li> </ul>         | fuse gL/gG: 40 A                                       |
| <ul> <li>for short-circuit protection of the auxiliary switch /<br/>required</li> </ul>     | fuse gL/gG: 10 A                                       |
| operational current / of upstream fuse / rated value  | 32 A   |
| according UL  |  |
| operational current / at AC / according to UL 508/UL 60947-4-1 / rated value                | 32 A   |
| operating voltage / at AC / at 50/60 Hz / according to UL<br>508/UL 60947-4-1 / rated value | 600 V  |
| active power [hp] / at AC / at 480 V / according to UL<br>508/UL 60947-4-1 / rated value    | 20   |
| active power [hp] / at AC / at 600 V / according to UL<br>508/UL 60947-4-1 / rated value    | 20   |
| short-time withstand current (SCCR) / at 600 V / according<br>to UL 508/UL 60947-4-1        | 5 kA   |
| continuous current / of upstream fuse / according to UL / rated value                       | 50 A   |
| type of fuse / according to UL  | RK5  |
| Connections   |  |
| AWG number / as coded connectable conductor cross<br>section / solid                        |  |
| • maximum   | 6  |
| • minimum   | 14   |
| type of connectable conductor cross-sections / for copper                                   |  |
| conductor   |  |
| • solid   | 1x (2.5 to 16 mm <sup>2</sup> )                        |
| <ul> <li>finely stranded / with core end processing</li> </ul>                              | 1x (2.516 mm <sup>2</sup> )                            |
| stranded type of connectable conductor cross-sections / for                                 | 1x (2.5 to 16 mm <sup>2</sup> )                        |
| auxiliary contacts<br>• solid   | 2x (0.75 2.5 mm²), 1x 4 mm²                            |
| <ul> <li>finely stranded / with core end processing</li> </ul>                              | 2x (0.75 2.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup> |
| stranded  | 2x (0.75 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>   |
| type of electrical connection   | $\chi^{*} = - \rho$                                    |
| for main current circuit  | box terminal   |
| <ul> <li>for auxiliary contacts</li> </ul>  | Box terminals  |
| Mechanical Design   |  |
| height  | 60 mm  |
| width   | 47 mm  |
| depth   | 380 mm   |
| type of device  | fixed mounting   |
| fastening method  | Built-in unit fixed-mounted version                    |
| fastening method  | No   |
| <ul> <li>4-hole front mounting</li> <li>front mounting with central attachment</li> </ul>   | Yes  |
| rail mounting   | Yes  |
| net weight  | 300 g  |
| Environmental conditions  |  |
| ambient temperature / during operation  |  |
| • minimum   | -25 °C   |
| • maximum   | 55 °C  |
| ambient temperature / during storage  |  |
| • minimum   | -25 °C   |
| maximum   | 55 °C  |
| General Product Approval  | Declaration of Conformity                              |







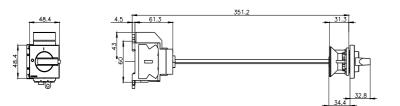


other

**Miscellaneous** 

Further information

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=3LD3240-1TK13 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3240-1TK13 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3240-1TK13 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications





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