SIEMENS

Data sheet

3LD3210-0TK05



Load disconnector 3LD3, lu 32 A Main switch 3-pole Rated operating capacity for AC-23 A at 400V 11.5kW Installation in distribution boards, Basic switch without Knob-operated mechanism

| product brand name SENTRON product designation 3LD Switch disconnector design of the product Switch display version / for switch position indicator manual operation 10N - 0 OFF type of switch DIN-rail mounting design of the actuating element Without handle design of handle Without type of the driving mechanism / motor drive No General technical data number of poles number of poles 3 number of poles 3 number of poles 3 electrical endurance (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 6 800 V operating frequency / natimum 60 kV operating frequency / natimum 60 kV operating frequency / natid value 690 V surge vollage resistance / rated value 690 V operating frequency / rated value 60 kV operating frequency / rated value 60 kV <th>Model</th> <th></th> | Model | |
|--|--|-------------------------|
| design of the product Switch display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch DIN-rail mounting design of the actuating element Without handle design of the actuating element Without handle design of the driving mechanism / motor drive No Ceneral technical data number of poles 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 insulation voltage / rated value operating frequency / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 600 V operating frequenc | product brand name | SENTRON |
| display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch DIN-rail mounting design of the actuating element without type of the driving mechanism / motor drive No General technical data mumber 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 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V operating frequency / rated value 50 Hz operating frequency / rated | product designation | 3LD Switch disconnector |
| operation DIN-rail mounting design of the actuating element Without handle design of the actuating element Without handle design of the actuating mechanism / motor drive No Ceneral technical data number of poles number of poles / note 3 number of poles / note 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6000 operating frequency / maximum 50 1/h degree of polution 3 Voltage insulation voltage / rated value 690 V operating frequency / rated value 690 V operating trequency / rated value 690 V operating frequency / rated value 60 Hz Protection class IP IP20 protection class IP IP20 protection class IP / on the front IP20 Dissipation 32 A | design of the product | Switch |
| design of the actualing element Without handle design of handle without type of the driving mechanism / motor drive No General technical data Immber of poles 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 Voitage 600 V insulation voltage / rated value 690 V operating frequency / maximum 60 V operating voltage resistance / rated value 690 V operating frequency / rated value 100 V operating frequency / rated value 690 V operating trace value 690 V operating frequency / rated value 60 V operating frequency / rated value 1920 protection class IP IP20 protection class IP / on the front IP20 | | 1 ON - 0 OFF |
| design of handle without type of the driving mechanism / motor drive No General technical data | type of switch | DIN-rail mounting |
| type of the driving mechanism / motor drive No General technical data | design of the actuating element | Without handle |
| General technical data number of poles 3 number of poles / note 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6000 • at AC-23 A / at 690 V 6000 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 frequency / maximum 50 HZ • at AC / rated value 690 V operating frequency / rated value 690 V • at AC / rated value 690 V • operating frequency / rated value 690 V • portection class IP IP20 protection class IP / on the front IP20 Dissipation IP20 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Operational current 3 | design of handle | without |
| number of poles 3 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 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 6 000 insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 6 kV • at AC / rated value 690 V operating frequency / rated value 60 Hz • minimum 50 Hz • minimum 50 Hz protection class IP IP20 protection class IP / on the front IP20 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Operational current 32 A operational current 32 A <td>type of the driving mechanism / motor drive</td> <td>No</td> | 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 680 V insulation voltage / rated value 690 V surge voltage resistance / 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 690 V operating frequency / rated value 600 V operating frequency / rated value 600 V operating frequency / rated value 50 Hz • minimum 50 Hz • minimum 60 Hz Protection class IP IP20 protection class IP / on the front IP20 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Operational current / rated value 32 A operational current / rated value 32 A operational current | 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 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating requency / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 600 Hz Protection class P protection class IP IP20 protection class IP / on the front IP20 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 / rated value 32 A operational current / rated value 32 A e at 45 °C / rate | 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 operating voltage 64 V • at AC - rated value 690 V operating voltage 64 V • at AC / rated value 690 V operating voltage 64 V • at AC / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating trequency / rated value 690 V operating trequency / rated value 690 V operation class IP Protection class IP protection class IP IP20 Dissipation IP20 Dissipation 1.8 W porterions [sute / per pole 32 A operational current / rated value 32 A | 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 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 / rated value 690 V operating frequency / rated value 600 Hz Protection class IP Protection class IP protection class IP / on the front IP20 Dissipation IP20 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W operational current / rated value 32 A operational current / at 40 °C / rated value 32 A • at 40 °C / r | 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 64 V • at AC / rated value 690 V operating frequency / rated value 690 V operation class 12 protection class IP IP20 protection class IP / on the front IP20 Dissipation IP20 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W operational current 32 A • at 40 °C / rated value | electrical endurance (switching cycles) | |
| degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 6 kV • at AC / rated value 690 V operating requency / rated value 690 V • at AC / rated value 690 V operating frequency / rated value 690 V • maximum 50 Hz • maximum 60 Hz Protection class IP20 protection class IP IP20 protection class IP / on the front IP20 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 operational current< | • at AC-23 A / at 690 V | 6 000 |
| 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 • minimum 50 Hz • maximum 60 Hz Protection class 1P20 protection class IP IP20 protection class IP / on the front IP20 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 40 °C / rated value 32 A • at 45 °C / rated value 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 Protection class IP protection class IP / on the front IP20 protection class IP / on the front IP20 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 • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 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 • maximum 60 Hz Protection class 1P20 protection class IP IP20 protection class IP / on the front IP20 Dissipation IP20 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W operational current 32 A | Voltage | |
| operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class IP20 protection class IP IP20 protection class IP / on the front IP20 Dissipation IP20 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Operational current / rated value 32 A operational current 32 A operational current 32 A • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | insulation voltage / rated value | 690 V |
| • at AC / rated value 690 V operating frequency / rated value 50 Hz • minimum 60 Hz • maximum 60 Hz Protection class 1P20 protection class IP IP20 protection class IP / on the front IP20 Dissipation 1.8 W operating state / per pole 32 A operational current / rated value 32 A operational current 32 A • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | surge voltage resistance / rated value | 6 kV |
| operating frequency / rated value 50 Hz • minimum 60 Hz Protection class 60 Hz protection class IP IP20 protection class IP / on the front IP20 Dissipation 1.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Operational current / rated value 32 A operational current at 40 °C / rated value 32 A • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | operating voltage | |
| • minimum 50 Hz • maximum 60 Hz Protection class • protection class IP IP20 protection class IP / on the front IP20 protection class IP / on the front IP20 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 • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | at AC / rated value | 690 V |
| • maximum60 HzProtection classIPprotection class IPIP20protection class IP / on the frontIP20DissipationIP20power loss [W] / for rated value of the current / at AC / in hot operating state / per pole1.8 WOperational current / rated value32 Aoperational current / rated value32 A | operating frequency / rated value | |
| Protection class IP20 protection class IP IP20 protection class IP / on the front IP20 Dissipation IP20 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 • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | • minimum | 50 Hz |
| protection class IP IP20 protection class IP / on the front IP20 Dissipation IP20 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 • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | • maximum | 60 Hz |
| protection class IP / on the front IP20 Dissipation | Protection class | |
| Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current 0 operational current / rated value 32 A operational current 32 A operational current 32 A operational current 32 A • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | protection class IP | IP20 |
| 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 • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | protection class IP / on the front | IP20 |
| hot operating state / per pole Current operational current / rated value 32 A operational current • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | Dissipation | |
| operational current / rated value 32 A operational current 32 A • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | | 1.8 W |
| operational current 32 A • at 40 °C / rated value 32 A • at 45 °C / rated value 32 A • at 50 °C / rated value 32 A | Current | |
| • at 40 °C / rated value32 A• at 45 °C / rated value32 A• at 50 °C / rated value32 A | operational current / rated value | 32 A |
| at 45 °C / rated value at 50 °C / rated value 32 A 32 A | operational current | |
| • at 50 °C / rated value 32 A | • at 40 °C / rated value | 32 A |
| | • at 45 °C / rated value | 32 A |
| • at 55 °C / rated value 32 A | • at 50 °C / rated value | 32 A |
| | • at 55 °C / rated value | 32 A |

| at AC / rated value | 32 A |
|---|--------------|
| Main circuit | |
| operational current | |
| • at AC-21 / at 690 V / rated value | 32 A |
| at AC-21 A / at 240 V / rated value | 32 A |
| at AC-21 A / at 400 V / rated value | 32 A |
| at AC-21 A / at 440 V / rated value | 32 A |
| at AC-23 A / at 400 V / rated value | 22 A |
| operating power | |
| at AC-23 A / at 240 V / rated value | 6 kW |
| at AC-23 A / at 400 V / rated value | 12 kW |
| at AC-23 A / at 440 V / rated value | 11.5 kW |
| at AC-23 A / at 690 V / rated value | 12 kW |
| at AC-3 / at 240 V / rated value | 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 | 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 | Yes |
| safety switch | Yes |
| maintenance/repair switch | Yes |
| Product details | |
| special product feature | Basic Switch |
| product feature / can be locked into OFF position | No |
| accessories | |
| product extension / optional | |
| • motor drive | No |
| voltage trigger | No |
| number of connectable NC contacts / for auxiliary contacts / attachable / maximum | 2 |
| number of connectable NO contacts / for auxiliary contacts / attachable / maximum | 4 |
| number of connectable CO contacts / for auxiliary contacts / attachable / maximum | 0 |
| 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 | 4.5 kA |
| at 440 V / for combination switch + gG fuse / maximum | 4.5 kA |
| at 690 V / for combination switch + gG fuse / maximum permissible | 5 kA |
| I2t value / with closed switch | |
| at 240 V / for combination switch + gG fuse / maximum | 9 kA2.s |
| at 440 V / for combination switch + gG fuse / maximum | 9 kA2.s |
| at 690 V / for combination switch + gG fuse / maximum | 9 kA2.s |

| minimum maximum General Product Approval | -25 °C 55 °C Declaration of Conformity |
|--|--|
| minimummaximum | 55 °C |
| • minimum | |
| | |
| ambient temperature / during storage | |
| • maximum | 55 °C |
| • minimum | -25 °C |
| ambient temperature / during operation | |
| Environmental conditions | |
| net weight | 200 g |
| • rail mounting | Yes |
| front mounting with central attachment | No |
| • 4-hole front mounting | No |
| fastening method | |
| fastening method | Built-in unit fixed-mounted version |
| type of device | fixed mounting |
| width depth | 64 mm |
| height | 60 mm 36 mm |
| Mechanical Design | 60 mm |
| for auxiliary contacts | Box terminals |
| for main current circuit | box terminal |
| type of electrical connection | |
| • stranded | 2x (0.75 2.5 mm²), 1x 4 mm² |
| finely stranded / with core end processing | 2x (0.75 1.5 mm ²), 1x 2.5 mm ² |
| • solid | 2x (0.75 2.5 mm ²), 1x 4 mm ² |
| auxiliary contacts | |
| type of connectable conductor cross-sections / for | |
| stranded | 1x (2.5 to 16 mm ²) |
| finely stranded / with core end processing | 1x (2.516 mm ²) |
| solid | 1x (2.5 to 16 mm ²) |
| type of connectable conductor cross-sections / for copper conductor | |
| • minimum | 14 |
| • maximum | 6 |
| section / solid | |
| AWG number / as coded connectable conductor cross | |
| Connections | |
| type of fuse / according to UL | RK5 |
| continuous current / of upstream fuse / according to UL / rated value | 50 A |
| to UL 508/UL 60947-4-1 | - |
| short-time withstand current (SCCR) / at 600 V / according | 5 kA |
| active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value | 20 |
| active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value | 20 |
| operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value | 600 V |
| 60947-4-1 / rated value | |
| operational current / at AC / according to UL 508/UL | 32 A |
| according UL | |
| required operational current / of upstream fuse / rated value | 32 A |
| for short-circuit protection of the auxiliary switch / | fuse gL/gG: 10 A |
| • for short-circuit protection of the main circuit / | fuse gL/gG: 25 A |
| design of the fuse link | _ |

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=3LD3210-0TK05

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3210-0TK05

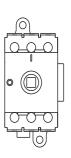
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3210-0TK05

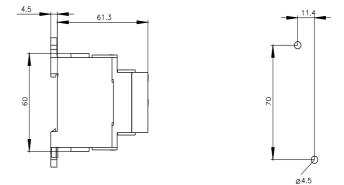
CAx-Online-Generator

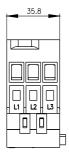
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Tender specifications

http://www.siemens.com/specifications







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