SIEMENS

Data sheet 3LD3254-0TL51



Load disconnector 3LD3, lu 32 A Main switch 3-pole + N Rated operating capacity for AC-23 A at 400V 11.5kW Front plate mounting Basic switch with Central hole mounting 22.5mm Rotating drive black 66 x 66 mm

| product brand name product designation design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of the actuating element black color / of the actuating element design of he actuating element black color / of the actuating element design of handle type of the driving mechanism / motor drive design of handle type of the driving mechanism / motor drive No General technical data number of poles number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A/ at 690 V operating frequency / maximum degree of pollution Voltago insulation voltage / rated value • at AC / rated value • at AC / rated value • minimum • at AC / rated value • minimum • at AC / rated value • minimum • foo Hz Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Curront operational current / rated value • at 40 °C / rated value • at 40 °C / rated value • at 45 °C / rated value • at 40 °C / rated value | Model | | | |
|--|--|-----------------------------------|--|--|
| design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of the actuating element design of the actuating element black design of handle rotary operating mechanism, black type of the driving mechanism / motor drive Ceneral technical data number of poles number of poles / note number of poles / note number of poles / note electrical endurance (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A 1 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating requency / rated value operating frequency / rated value • at AC / rated value • minimum - maximum Protection class IP degree of protection NEMA rating protection class IP on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Curront operational current / rated value • at 40 °C / rated value operating state / per pole Curront operational current / rated value • at 40 °C / rated value operational current / rated value | product brand name | SENTRON | | |
| display version / for switch position indicator manual operation type of switch design of the actuating element color / of the actuating element black design of handle type of the driving mechanism / motor drive type of the driving mechanism / motor drive No General technical data number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / operating frequency / maximum for poles insulation voltage / rated value operating frequency / rated value • at AC-23 A / at ed value • at AC / rated value • at AC / rated value • minimum • maximum for btz protection class IP / on the front Dissipation power loss [W] / for rated value operational current / rated value | product designation | 3LD Switch disconnector | | |
| operation type of switch design of the actuating element color / of the actuating element design of handle type of the driving mechanism / motor drive No General technical data number of poles number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching 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 operating voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operation class IP operation class IP protection class IP protection class IP / on the front 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 operational current / rated value 32 A operational current / rated value 52 A | design of the product | Main switch | | |
| design of the actuating element black color / of the driving mechanism / motor drive No General technical data number of poles | | 1 ON - 0 OFF | | |
| color / of the actuating element design of handle type of the driving mechanism / motor drive Ceneral technical data number of poles | type of switch | front mounted | | |
| design of handle type of the driving mechanism / motor drive No General technical data number of poles | design of the actuating element | Short rotary knob | | |
| type of the driving mechanism / motor drive General technical data | color / of the actuating element | black | | |
| number of poles 4 | design of handle | rotary operating mechanism, black | | |
| number of poles number of poles / note number | type of the driving mechanism / motor drive | No | | |
| number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching 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 690 V operating voltage • at AC / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value • minimum 50 Hz • maximum 60 Hz Protection class IP 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 operational current / rated value 32 A operational current / rated value 32 A | General technical data | | | |
| mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum fegree of pollution 3 Voltage insulation voltage / rated value operating voltage resistance / rated value • at AC / rated value • maximum for the maximum for the maximum for the maximum for the fort Dissipation power loss [W] / for rated value operational current / rated value operational current operational cu | number of poles | 4 | | |
| electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz Protection class protection class IP degree of protection NEMA rating protection class IP / on the front 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 33 A | number of poles / note | 4 | | |
| at AC-23 A / at 690 V operating frequency / maximum fegree of pollution voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage at AC / rated value operating frequency / rated value ominimum o | mechanical service life (switching cycles) / typical | 100 000 | | |
| operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value in maximum for 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 operational current / rated value operational current | electrical endurance (switching cycles) | | | |
| degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value ominimum ominimu | • at AC-23 A / at 690 V | 6 000 | | |
| 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 IP 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 operational current / rated value 32 A operational current • at 40 °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 • at AC / rated value 690 V operating frequency / rated value • 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 operational current / rated value 32 A operational current • at 40 °C / rated value 32 A | degree of pollution | 3 | | |
| surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum Frotection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value 6 kV 6 kV 6 kV 6 kV 690 V 690 V 690 V 690 V 1965 HP65 1P65 1P65 1P65 1 , 3R, 4X, 12 2 , 3R, 4X, 12 3 , 3R, 4X, 12 4 , 3R, 4X, 12 4 , 3R, 4X, 12 5 , 3R, 4X, 12 6 , 3R, 4X, 12 7 , 3 | Voltage | | | |
| operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value 690 V 690 | insulation voltage / rated value | 690 V | | |
| • at AC / rated value operating frequency / rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value at 40 °C / rated value 32 A | surge voltage resistance / rated value | 6 kV | | |
| operating frequency / rated value • minimum • 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 • at 40 °C / rated value 32 A | operating voltage | | | |
| minimum 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 at 40 °C / rated value 32 A 32 A 32 A 32 A 32 A 33 A 34 O°C / rated value 32 A 33 A 34 A 35 A 36 Hz 60 Hz 1.8 W | at AC / rated value | 690 V | | |
| ● maximum 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 operational current ● at 40 °C / rated value 60 Hz IP65 1, 3R, 4X, 12 IP65 1.8 W 1.8 W 32 A | operating frequency / rated value | | | |
| 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 operational current • at 40 °C / rated value IP65 | • minimum | 50 Hz | | |
| protection class IP 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 operational current / rated value operational current • at 40 °C / rated value IP65 1.8 W 1.8 W 32 A | • maximum | 60 Hz | | |
| degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value 32 A | Protection class | | | |
| protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value 32 A | protection class IP | IP65 | | |
| Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • 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 hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value 32 A | protection class IP / on the front | IP65 | | |
| hot operating state / per pole Current operational current / rated value operational current operational current operational current 32 A 32 A 32 A | Dissipation | | | |
| operational current / rated value 32 A operational current • at 40 °C / rated value 32 A | | 1.8 W | | |
| operational current • at 40 °C / rated value 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 | | |

| • 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 | No |
| safety switch | Yes |
| maintenance/repair switch | Yes |
| Product details | |
| | |
| special product feature | Can be locked in zero position |
| special product feature product feature / can be locked into OFF position | Can be locked in zero position Yes |
| | · |
| product feature / can be locked into OFF position | · |
| product feature / can be locked into OFF position accessories | · |
| product feature / can be locked into OFF position accessories product extension / optional | Yes |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive | Yes |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts | Yes No No |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts | No No 2 |
| product feature / can be locked into OFF position accessories product extension / optional | No No 2 |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum | No No 2 4 0 |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum | No No 2 4 0 3 |
| product feature / can be locked into OFF position accessories product extension / optional | No No 2 4 0 3 |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse | No No 2 4 0 3 |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection | No No No 2 4 0 3 4 8 mm |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value | Yes No No 2 4 0 3 4 8 mm |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value | No No 2 4 0 3 4 8 mm |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / | No No 2 4 0 3 4 8 mm |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / | No No No 2 4 0 3 4 8 mm 10 kA 6 kA 4.5 kA |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / | No No 2 4 0 3 4 8 mm 10 kA 6 kA 4.5 kA |
| product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible | No No 2 4 0 3 4 8 mm 10 kA 6 kA 4.5 kA |

| maximum | 0.1-4.0 - | | |
|--|-------------------------------------|---------------------------|--|
| at 440 V / for combination switch + gG fuse / maximum | 9 kA2.s | | |
| at 690 V / for combination switch + gG fuse / | 9 kA2.s | | |
| maximum | | | |
| design of the fuse link | | | |
| for short-circuit protection of the main circuit / required | fuse gL/gG: 40 A | | |
| for short-circuit protection of the auxiliary switch / required | 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 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 | 20 | | |
| active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value | 20 | | |
| short-time withstand current (SCCR) / at 600 V / according 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 | | | |
| section / solid | | | |
| • maximum | 6 | | |
| • minimum | 14 | | |
| type of connectable conductor cross-sections / for copper | | | |
| conductor | 4 (0. F to 4.02) | | |
| • solid | 1x (2.5 to 16 mm²) | | |
| finely stranded / with core end processing atranded | 1x (2.516 mm²) | | |
| stranded type of connectable conductor cross-sections / for | 1x (2.5 to 16 mm²) | | |
| auxiliary contacts | | | |
| • solid | 2x (0.75 2.5 mm²), 1x 4 mm² | | |
| finely stranded / with core end processing | 2x (0.75 1.5 mm²), 1x 2.5 mm² | | |
| • stranded | 2x (0.75 2.5 mm²), 1x 4 mm² | | |
| type of electrical connection | | | |
| for main current circuit | box terminal | | |
| for auxiliary contacts | Box terminals | | |
| Mechanical Design | | | |
| height | 60 mm | | |
| width | 49 mm | | |
| depth | 114 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 | Yes | | |
| rail mounting | No | | |
| net weight | 200 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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3254-0TL51}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3254-0TL51

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3254-0TL51

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







