

SENTRON switch disconnecter 3LD in molded-plastic enclosure , repair and maintenance switch with EMC plate, 3-pole lu: 100A, AC23A 400V at 50/60Hz: 37kW, used with frequency converter: AC20 400V at 0-550Hz: 37kW, 1NO + 1NC 20-150ms leading, molded-plastic encapsulation for metric cable gland, knob-operated mechanism, black, lockable in 0- and I-position, incl. cable shield clamps and hose clamps

| Model | |
|--|--|
| product brand name | SENTRON |
| product designation | 3LD Switch disconnecter |
| design of the product | Switch |
| display version / for switch position indicator manual operation | 1 ON - 0 OFF |
| design of the actuating element | selector switch |
| design of handle | knob-operated mechanism, black |
| type of the driving mechanism / motor drive | No |
| General technical data | |
| number of poles | 3 |
| type of device | fixed mounting |
| type of switch | Molded-plastic enclosure for metric threaded joint |
| size of switch disconnecter | 4 |
| mechanical service life (switching cycles) / typical | 100 000 |
| electrical endurance (switching cycles) | |
| • at AC-23 A / at 690 V | 6 000 |
| • between converter and motor / when used as repair switch / at AC-20 A / at 690 V / at 0-550 Hz | 100 000 |
| I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum | 64 kA2.s |
| let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 64 kA2.s |
| operating frequency / maximum | 50 1/h |
| Voltage | |
| insulation voltage / rated value | 690 V |
| surge voltage resistance / rated value | 6 kV |
| operating voltage | |
| • between converter and motor / at AC / at 0-550 Hz / rated value | 690 V |
| Protection class | |
| protection class IP | IP65 |
| 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 | 7.5 W |
| • per conductor / typical | 7.5 W |
| Current | |
| operational current | |
| • at 40 °C / rated value | 80 A |
| • at AC / rated value | 100 A |
| • at AC-23 A / at 400 V / rated value | 70 A |
| • at AC-21 / at 690 V / rated value | 100 A |
| • at AC-21 A / at 240 V / rated value | 100 A |
| • at AC-21 A / at 440 V / rated value | 100 A |

| | |
|---|----------------------------|
| operational current / of upstream fuse / rated value | 100 A |
| let-through current / with closed switch | |
| <ul style="list-style-type: none"> at 440 V / for combination switch + gG fuse / maximum | 10 kA |
| <ul style="list-style-type: none"> at 690 V / for combination switch + gG fuse / maximum permissible | 10 kA |
| Main circuit | |
| operating frequency / between converter and motor / when used as repair switch | |
| <ul style="list-style-type: none"> initial value | 0 Hz |
| <ul style="list-style-type: none"> full-scale value | 550 Hz |
| operating power | |
| <ul style="list-style-type: none"> at AC-23 A / at 240 V / rated value | 18.5 kW |
| <ul style="list-style-type: none"> at AC-23 A / at 440 V / rated value | 37 kW |
| <ul style="list-style-type: none"> at AC-23 A / at 690 V / rated value | 30 kW |
| <ul style="list-style-type: none"> at AC-3 / at 240 V / rated value | 18.5 kW |
| <ul style="list-style-type: none"> at AC-3 / at 400 V / rated value | 30 kW |
| <ul style="list-style-type: none"> at AC-3 / at 690 V / rated value | 22 kW |
| operating active power [W] / between converter and motor / when used as repair switch / at AC-20 A | |
| <ul style="list-style-type: none"> at 400 V / at 0-550 Hz / rated value | 37 kW |
| <ul style="list-style-type: none"> at 690 V / at 0-550 Hz / rated value | 55 kW |
| operational current / rated value | 100 A |
| continuous current / between converter and motor / when used as repair switch / at AC-20 | |
| <ul style="list-style-type: none"> at 230 V / rated value | 68 A |
| <ul style="list-style-type: none"> at 400 V / rated value | 75 A |
| <ul style="list-style-type: none"> at 690 V / rated value | 62 A |
| 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 | 600 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 | |
| <ul style="list-style-type: none"> main switch | Yes |
| <ul style="list-style-type: none"> switch disconnecter | Yes |
| <ul style="list-style-type: none"> EMERGENCY OFF switch | No |
| <ul style="list-style-type: none"> safety switch | No |
| <ul style="list-style-type: none"> maintenance/repair switch | Yes |
| Appearance | |
| color / of the actuating element | black |
| Product details | |
| <ul style="list-style-type: none"> product function / can be locked into OFF position | Yes |
| <ul style="list-style-type: none"> product feature / can be locked in ON position | Yes |
| number of bracket locks / maximum | 3 |
| hasp thickness / of the bracket locks / minimum | 4.5 mm |
| hasp thickness / of the bracket locks / maximum | 8.5 mm |
| special product feature | inclusive EMC shield plate |
| product extension / optional | |
| <ul style="list-style-type: none"> motor drive | No |
| <ul style="list-style-type: none"> voltage trigger | No |
| Short circuit | |
| conditional short-circuit current / with line-side fuse protection | |
| <ul style="list-style-type: none"> at 690 V / by gG fuse / rated value | 50 kA |

| according UL | |
|--|--|
| operational current / at AC / according to UL 508/UL 60947-4-1 / rated value | 100 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 | 60 |
| active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value | 75 |
| short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1 | 10 kA |
| continuous current / of upstream fuse / according to UL / rated value | 200 A |
| type of fuse / according to UL | RK5 |
| Number | |
| 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 |
| Connections | |
| AWG number / as coded connectable conductor cross section / solid | |
| <ul style="list-style-type: none"> • maximum • minimum | 1 12 |
| type of connectable conductor cross-sections / for copper conductor | |
| <ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded | 1x (4...50mm ²) 1x (4...35mm ²) 1x (4...50mm ²) |
| type of connectable conductor cross-sections / for auxiliary contacts | |
| <ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded | lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²) lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ² lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²) |
| type of electrical connection | |
| <ul style="list-style-type: none"> • for main current circuit • for auxiliary contacts | box terminal connection terminals |
| Requirements | |
| design of the fuse link | |
| <ul style="list-style-type: none"> • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required | fuse gL/gG: 100 A fuse gL/gG: 10 A |
| Mechanical Design | |
| height | 302 mm |
| width | 212 mm |
| depth | 181 mm |
| fastening method | Complete unit in enclosure with EMC shield plate |
| fastening method | |
| <ul style="list-style-type: none"> • 4-hole front mounting • front mounting with central attachment • rail mounting | No Yes No |
| net weight | 1 950 g |
| Environmental conditions | |
| ambient temperature / during operation | |
| <ul style="list-style-type: none"> • minimum • maximum | -25 °C 55 °C |

| | | | |
|---|----------------------------------|--------------------------|--------------|
| ambient temperature / during storage / minimum | | -25 °C | |
| Certificates | | | |
| reference code | | S | |
| <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to IEC 81346-2 | | SF | |
| General Product Approval | Declaration of Conformity | Test Certificates | other |



[Special Test Certificate](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

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=3LD2786-2GP21>

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

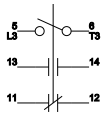
<https://support.industry.siemens.com/cs/ww/en/ps/3LD2786-2GP21>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2786-2GP21

Tender specifications

<http://www.siemens.com/specifications>



SIEMENS

