SIEMENS

Data sheet 3LD2165-3VB51



SENTRON, Switch disconnector 3LD, main switch, 6-pole, lu: 25 A, Operating power / at AC-23 A at 400 V: $9.5\,\mathrm{kW}$, molded-plastic encapsulation for metric cable gland, rotary operating mechanism, black

| Model | |
|---|--|
| product brand name | SENTRON |
| product designation | Switch disconnector |
| design of the product | Main switch |
| display version for switch position indicator manual operation | 1 ON - 0 OFF |
| type of switch | Molded-plastic enclosure for metric threaded joint |
| design of the actuating element | Short rotary knob |
| color of the actuating element | black |
| design of handle | rotary operating mechanism, black |
| type of the driving mechanism motor drive | No |
| General technical data | |
| number of poles | 6 |
| number of poles note | PE + N |
| size of switch disconnector | 2 |
| 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 | IP65 |
| degree of protection NEMA rating | 1, 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 | 1.1 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 | |
| ● at AC-21 A at 400 v Tated value | 25 A |

| al al .= / 3 A al aliii V falan Valla | 20 A |
|---|--|
| at AC-23 A at 400 V rated value operating power | 20 / 1 |
| at AC-23 A at 240 V rated value | 5 kW |
| • at AC-23 A at 400 V rated value | 10 kW |
| • at AC-23 A at 440 V rated value | 9.5 kW |
| • at AC-23 A at 690 V rated value | 10 kW |
| at AC-23 A at 690 V rated value at AC-3 at 240 V rated value | 4 kW |
| at AC-3 at 400 V rated value | 8 kW |
| at AC-3 at 400 V rated value at AC-3 at 690 V rated value | 7.5 kW |
| Auxiliary circuit | 1.5 KVV |
| 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 | |
| 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 attachable maximum | 3 |
| number of connectable NO contacts for auxiliary contacts attachable maximum | 5 |
| | |
| number of connectable CO contacts for auxiliary contacts attachable maximum | 0 |
| | 3 |
| attachable maximum | |
| attachable maximum number of bracket locks maximum | 3 |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection | 3 4 8 mm |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit | 3 |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection | 3 4 8 mm |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value | 3 4 8 mm |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • 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 maximum | 3 4 8 mm 50 kA 3.5 kA 3.5 kA |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum | 3 4 8 mm 50 kA 3.5 kA |
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| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • 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 maximum • at 690 V for combination switch + gG fuse maximum permissible I2t value with closed switch | 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA |
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| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • 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 maximum permissible l2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 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 | 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA2.s 4 kA2.s |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • 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 maximum • at 690 V for combination switch + gG fuse maximum permissible l2t value 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 design of the fuse link | 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • 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 maximum • at 690 V for combination switch + gG fuse maximum permissible I2t value 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 • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value | 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s 5 tuse gL/gG: 25 A |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • 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 maximum • at 690 V for combination switch + gG fuse maximum permissible l2t value 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 • at 690 V for combination switch + gG fuse maximum design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required | 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • 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 maximum • at 690 V for combination switch + gG fuse maximum permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 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 • at 690 V for combination switch + gG fuse maximum design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value | 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A |
| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • 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 maximum • at 690 V for combination switch + gG fuse maximum permissible 12t value 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 • at 690 V for combination switch + gG fuse maximum design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 | 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A 25 A |
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| attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • 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 maximum • at 690 V for combination switch + gG fuse maximum permissible l2t value 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 • at 690 V for combination switch + gG fuse maximum oat 690 V for combination switch + gG fuse maximum design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947- | 3 4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA2.s 4 kA2.s 4 kA2.s fuse gL/gG: 25 A fuse gL/gG: 10 A 25 A 600 V |

| 508/UL 60947-4-1 | |
|---|---|
| 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 | 8 |
| minimum | 14 |
| type of connectable conductor cross-sections for copper conductor | |
| • solid | 1x (1,516mm²) |
| finely stranded with core end processing | 1x (1,510mm²) |
| stranded | 1x (1,516mm²) |
| type of connectable conductor cross-sections for auxiliary contacts | |
| • solid | lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) |
| finely stranded with core end processing | lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² |
| • stranded | lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) |
| type of electrical connection | |
| for main current circuit | box terminal |
| for auxiliary contacts | connection terminals |
| Mechanical Design | |
| height | 188 mm |
| width | 146 mm |
| depth | 149 mm |
| type of device | fixed mounting |
| fastening method | Complete unit in enclosure |
| fastening method | |
| • 4-hole front mounting | No |
| front mounting with central attachment | Yes |
| rail mounting | No |
| net weight | 874 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 | |



Confirmation





Miscellaneous



Declaration of Conformity

Test Certificates

Marine / Shipping

other

CA



Miscellaneous



Confirmation

Miscellaneous

Environment

Environmental Confirmations

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

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=3LD2165-3VB51

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

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

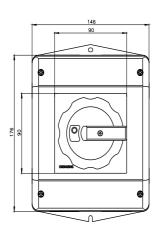
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2165-3VB51

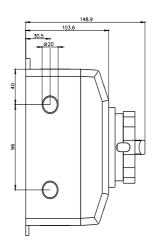
CAx-Online-Generator

http://www.siemens.com/cax

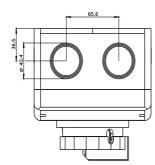
Tender specifications

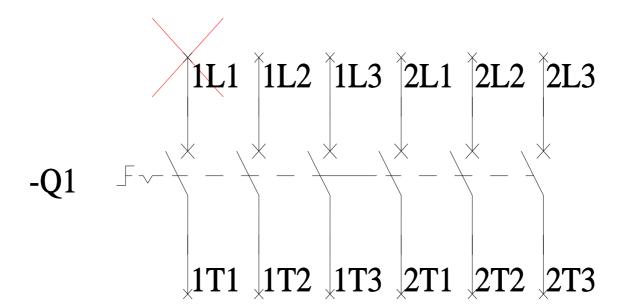
http://www.siemens.com/specifications











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