SIEMENS

Data sheet 3LD2064-1TC53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4- pole, 16 A, operating power at AC-23 A at 400 V: 7.5 kW, molded-plastic encapsulation for metric cable gland, rotary operating mechanism, red/yellow

| product brand name product designation design of the product design of the actuating pelment Vso design of the actuating element vector of the actuating vector of the actuation v | Model | |
|--|--|--|
| design of the product display version for switch position indicator manual operation 1 ON - 0 OFF type of switch design of the actuating element color of the actuating element design of the actuating element color of the actuating element red design of handle type of the driving mechanism motor drive No Ceneral technical data number of poles note size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value operating frequency rated value • minimum • at AC-rated value • minimum • maximum Protection class IP degree of protection NEMA rating protection class IP on the front pissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operating state per pole at AC-21 at 690 V rated value • at AC-21 at 240 V rated value • at AC-21 at 4400 V 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 red design of the actuating element red design of the actuating element red red red rotary operating mechanism, red/yellow type of the driving mechanism motor drive No Ceneral technical data number of poles number of poles note PE size of switch disconnector imechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-23 A at 690 V operating frequency maximum degree of pollution 3 Voltage at AC rated value operating voltage at AC rated value operating frequency rated value minimum so the Case P east AC rated value operating frequency rated value minimum frequency redeving the frequency rated value minimum frequency redeving the frequency rated value minimum frequency redeving the frequency rated value of the current at AC in hot operating frequency value of the current at AC in hot operating state per pole frequency value frequency va | product designation | Switch disconnector |
| type of switch design of the actuating element Color of the actuating element Color of the actuating element Resign of handle | design of the product | EMERGENCY-STOP switch |
| design of the actuating element red red classing element red red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No Rearral technical data number of poles 4 number of poles PE size of switch disconnector 1 number of poles note PE size of switch disconnector 1 number of poles note selectrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) of the control of the contro | display version for switch position indicator manual operation | 1 ON - 0 OFF |
| Color of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No | type of switch | Molded-plastic enclosure for metric threaded joint |
| design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No General technical data number of poles 4 number of poles 1 number of po | design of the actuating element | Short rotary knob |
| type of the driving mechanism motor drive General technical data number of poles A | color of the actuating element | red |
| General technical data number of poles | design of handle | rotary operating mechanism, red/yellow |
| number of poles 4 number of poles note PE size of switch disconnector 1 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage Visitage insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 600 Hz Protection class Protection class IP protection class IP on the front IP65 Dissipation IP65 Dissipation 0.5 W operating state per pole Main circuit operational current * at AC-21 at 690 V rated value 16 A * at AC-21 At 240 V rated value 16 A * at AC-21 At 240 V rated value 16 A | type of the driving mechanism motor drive | No |
| number of poles note size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value surge voltage resistance rated value 690 V operating voltage • at AC rated value operating frequency rated value • minimum 50 Hz maximum foo Hz Protection class IP degree of protection NEMA rating protection class IP degree of protection NEMA rating 1, 4X, 12 protection class IP iP65 degree of protection NEMA rating 1, 4X, 12 protection class IP iP65 degree of protection NEMA rating 1, 4X, 12 protection class IP on the front Dissipation operating state per pole Main circuit operating state per pole Main circuit • at AC-21 at 690 V rated value 16 A • at AC-21 A at 240 V rated value 16 A | General technical data | |
| Size of switch disconnector | number of poles | 4 |
| mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value • at AC rated value • at AC rated value • minimum • maximum 50 1/b degree of protection NEMA rating protection class IP degree of protection NEMA rating 1, 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 Main circuit • at AC-21 at 690 V rated value • at AC-21 at 4400 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value | number of poles note | PE |
| electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum 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 690 V operating frequency rated value • minimum 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP of the front Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value | size of switch disconnector | 1 |
| at AC-23 A at 690 V 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 690 V operating frequency rated value 600 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 Main circuit operational current 4 AC-21 at 690 V rated value 16 A 4 AC-21 A at 240 V rated value 16 A 4 AC-21 A at 4400 V rated value 16 A 4 AC-21 A at 400 V rated value 16 A | mechanical service life (operating cycles) typical | 100 000 |
| operating frequency maximum 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 frequency rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 1, 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 400 V rated value 16 A | electrical endurance (operating cycles) | |
| degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 680 V 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 at 420 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 400 V rated value | • 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 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 Main circuit operational current • at AC-21 at 690 V rated value 16 A • at AC-21 At 240 V rated value 16 A • at AC-21 At 240 V rated value 16 A • at AC-21 At 240 V rated value 16 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 800 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 240 V rated value | degree of pollution | 3 |
| surge voltage resistance rated value 6 kV operating voltage | Voltage | |
| operating voltage • at AC rated value operating frequency rated value • minimum • maximum foot 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value | insulation voltage rated value | 690 V |
| at AC rated value operating frequency rated value minimum | surge voltage resistance rated value | 6 kV |
| operating frequency rated value • minimum • maximum 50 Hz Frotection class protection class IP 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value | 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 Main circuit operational current at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value | at AC rated value | 690 V |
| ● maximum Protection class protection class IP 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 Main circuit operational current ● at AC-21 at 690 V rated value ● at AC-21 A at 240 V rated value ● at AC-21 A at 400 V rated value ● at AC-21 A at 400 V rated value 16 A | operating frequency rated value | |
| 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value | • minimum | 50 Hz |
| protection class IP 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 400 V rated value 16 A | • maximum | 60 Hz |
| degree of protection NEMA rating 1, 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 400 V rated value 16 A | Protection class | |
| 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value 16 A | protection class IP | IP65 |
| power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value 16 A | degree of protection NEMA rating | 1, 4X, 12 |
| power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 400 V rated value 16 A | protection class IP on the front | IP65 |
| operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 400 V rated value 16 A | Dissipation | |
| operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 400 V rated value 16 A | | 0.5 W |
| at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value 16 A 16 A | Main circuit | |
| at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value 16 A | operational current | |
| at AC-21 A at 400 V rated value 16 A | • at AC-21 at 690 V rated value | 16 A |
| | • at AC-21 A at 240 V rated value | 16 A |
| at AC-21 A at 440 V rated value 16 A | • at AC-21 A at 400 V rated value | 16 A |
| | • at AC-21 A at 440 V rated value | 16 A |

| at AC-23 A at 400 V rated value | 16 A |
|---|-------------------|
| operating power | |
| at AC-23 A at 240 V rated value | 4 kW |
| • at AC-23 A at 400 V rated value | 8 kW |
| • at AC-23 A at 440 V rated value | 7.5 kW |
| • at AC-23 A at 690 V rated value | 8 kW |
| at AC-3 at 240 V rated value | 3 kW |
| • at AC-3 at 400 V rated value | 6 kW |
| • at AC-3 at 690 V rated value | 5.5 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 |
| Suitability | |
| suitability for use | |
| main switch | Yes |
| switch disconnector | Yes |
| EMERGENCY OFF switch | Yes |
| 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 |
| number of bracket locks maximum | 3 |
| hasp thickness of the bracket locks | 4 8 mm |
| Short circuit | |
| conditional short-circuit current with line-side fuse protection | |
| at 690 V by gG fuse rated value | 50 kA |
| let-through current with closed switch | |
| • at 240 V for combination switch + gG fuse maximum | 3 kA |
| at 440 V for combination switch + gG fuse maximum | 3 kA |
| at 690 V for combination switch + gG fuse maximum permissible | 3 kA |
| I2t value with closed switch | |
| • at 240 V for combination switch + gG fuse maximum | 2.5 kA2.s |
| • at 440 V for combination switch + gG fuse maximum | 2.5 kA2.s |
| at 690 V for combination switch + gG fuse maximum | 3 kA2.s |
| design of the fuse link | fuer at /aC: 20 A |
| for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary quitely required. | fuse gL/gG: 20 A |
| for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |
| operational current of upstream fuse rated value | 20 A |
| according UL | 16 A |
| operational current at AC according to UL 508/UL 60947-4-1 rated value | 16 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 | 7.5 |
| active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value | 10 |
| 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 | |
| • | 10 |
| • | 18 |
| type of connectable conductor cross-sections for copper conductor | |
| • solid | 1x (16mm²) |
| finely stranded with core end processing | 1x (14mm²) |
| • stranded | 1x (16mm²) |
| 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 | 152 mm |
| width | 100 mm |
| depth | 117 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 | 469 g |
| Environmental conditions | |
| ambient temperature during operation | |
| • minimum | -25 °C |
| • maximum | 55 °C |
| ambient temperature during storage | |
| • minimum | -25 °C |
| • maximum | 55 °C |
| Approvals Certificates | |
| | |

General Product Approval







Confirmation





General Product Approval

Test Certificates

Marine / Shipping

other



Miscellaneous



Miscellaneous



Miscellaneous

other Environment

<u>Confirmation</u> <u>Environmental Confirmations</u>

Environmental Confirmations

Information on the packaging

https://support.industry.siemens.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=3LD2064-1TC53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2064-1TC53

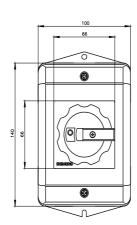
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2064-1TC53

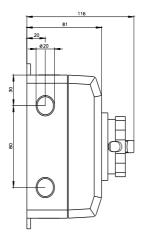
CAx-Online-Generator

http://www.siemens.com/cax

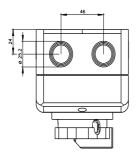
Tender specifications

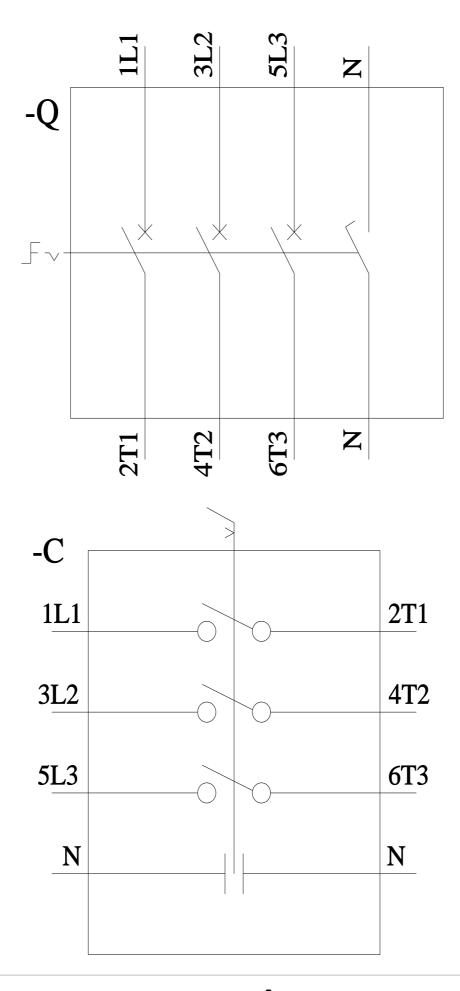
http://www.siemens.com/specifications











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