## **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

| Model   |  |  |
|---|--|--|
| product brand name  | SENTRON  |  |
| product designation   | Switch disconnector                                |  |
| design of the product   | EMERGENCY-STOP 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  | red  |  |
| 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 note  | PE   |  |
| size of switch disconnector   | 1  |  |
| 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 | 0.5 W  |  |
| Main circuit  |  |  |
| operational current   |  |  |
| • 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 400 V rated value   | 16 A   |  |
|   |  |  |

| <ul> <li>at AC-21 A at 440 V rated value</li> </ul>   | 16 A                 |
|---|----------------------|
| at AC-23 A at 400 V rated value   | 16 A                 |
| operating power   |                      |
| <ul> <li>at AC-23 A at 240 V rated value</li> </ul>   | 4 kW                 |
| <ul> <li>at AC-23 A at 400 V rated value</li> </ul>   | 8 kW                 |
| <ul> <li>at AC-23 A at 440 V rated value</li> </ul>   | 7.5 kW               |
| <ul> <li>at AC-23 A at 690 V rated value</li> </ul>   | 8 kW                 |
| • at AC-3 at 240 V rated value  | 3 kW                 |
| <ul> <li>at AC-3 at 400 V rated value</li> </ul>  | 6 kW                 |
| <ul> <li>at AC-3 at 690 V rated value</li> </ul>  | 5.5 kW               |
| Auxiliary circuit   |                      |
| number of CO contacts for auxiliary contacts  | 0                    |
| number of NC contacts for auxiliary contacts  | 0                    |
| -   | 0                    |
| number of NO contacts for auxiliary contacts  | 500 V                |
| operating voltage of auxiliary contacts at AC maximum   |                      |
| 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                  |
| suitability for use switch disconnector   | Yes                  |
| suitability for use EMERGENCY OFF switch  | Yes                  |
| suitability for use safety switch   | Yes                  |
| suitability for use 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  | 3                    |
| attachable maximum  |                      |
| 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                 |
| <ul> <li>at 690 V for combination switch + gG fuse maximum<br/>permissible</li> </ul>                   | 3 kA                 |
| 12t value with closed switch  |                      |
| at 240 V for combination switch + gG fuse maximum   | 2.5 kA2.s            |
|   | 2.5 kA2.s            |
| at 440 V for combination switch + gG fuse maximum     at 600 V for combination switch + gG fuse maximum |                      |
| at 690 V for combination switch + gG fuse maximum   | 3 kA2.s              |
| design of the fuse link   | fund at 1 a C + 20 A |
| for short-circuit protection of the main circuit 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  |                      |
| 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)  |
| <ul> <li>finely stranded with core end processing</li> </ul>                  | 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) |
| <ul> <li>finely stranded with core end processing</li> </ul>                  | 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   |   |
| <ul> <li>for main current circuit</li> </ul>                                  | box terminal  |
| <ul> <li>for auxiliary contacts</li> </ul>                                    | 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  |
| <ul> <li>front mounting with central attachment</li> </ul>                    | 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  |   |
| Conoral Product Approval  |   |

## **General Product Approval**









Confirmation



General Product Approval Test Certificates Marine / Shipping other



Miscellaneous



Miscellaneous



Miscellaneous

other Environment

<u>Confirmation</u> <u>Environmental Con-</u> <u>Environmental Con-</u>

## 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=3LD2064-1TC53

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

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

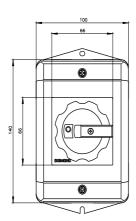
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2064-1TC53">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2064-1TC53</a>

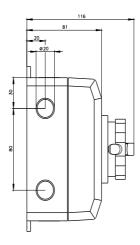
**CAx-Online-Generator** 

http://www.siemens.com/cax

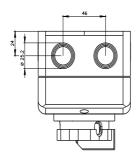
**Tender specifications** 

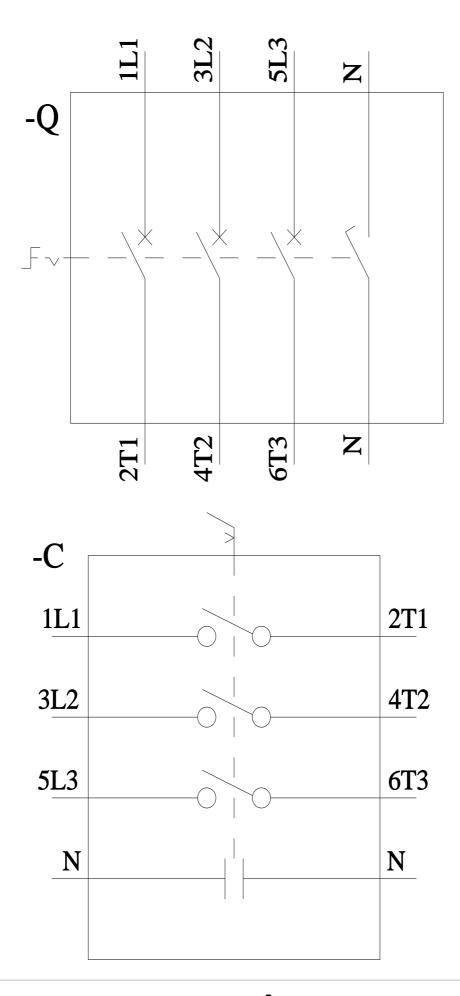
http://www.siemens.com/specifications











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