SIEMENS

Product data sheet 3LD2154-1TL51



MAIN CONTROL SWITCH 4-POLE IU=25, P/AC-23A AT 400V=9,5KW FRONT MOUNTING CENTRAL-HOLE MOUNTING ROTARY ACTUATOR BLACK

Similar to image

| General technical details: | | | |
|---|----|---------------------------------|--|
| product brand name | | SENTRON | |
| product designation | | main and EMERGENCY-OFF switches | |
| Type from device | | fixed mounting | |
| Design of the operating mechanism | | rotary actuator, black | |
| Protection class IP | | IP65 | |
| Number of poles | | 4 | |
| Acceptability for application | | | |
| • switch disconnector | | Yes | |
| • main switch | | Yes | |
| safety cut-out switch | | Yes | |
| emergency stop switch | | No | |
| maintenance/repair switch | | Yes | |
| Product equipment / interlock | | Yes | |
| Type of the driving mechanism / motor drive | | No | |
| Product extension / optional | | | |
| • motor drive | | No | |
| voltage trigger | | No | |
| Ambient temperature / during operating | °C | -25 +55 | |

| Insulation voltage / rated value Mount Mo | | | |
|--|--|-----|------------------|
| Active power loss / per conductor / typical Mechanical operating cycles as operating time / of the main contacts / typical Protection against electrical shock Item designation / according to DIN EN 61346-2 Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Main circuit: Continuous current / rated value A 25 Operating current / at AC-21 / rated value A 25 Short-time current resistance (icw) / at 690 V / limited to 1 s / acted value Operating frequency Operating requency Operating voltage / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value A 25 Service power / at AC-3 A • at 400 V / rated value A 25 Service power / at AC-3 A • at 400 V / rated value A 30 V / sated value A 40 V 9.5 A 400 V / rated value A 50 V / sated value A 50 V / sated value A 60 V 9.5 A 60 V / rated value A 60 V 9.5 A 60 | Insulation voltage / rated value | V | 690 |
| Mechanical operating cycles as operating time / of the main contacts / typical Protection against electrical shock Item designation / according to DIN 80 61346-2 Item designation / according to DIN 40719 extendable after IEC 28 Main circuit: Continuous current / rated value Operating current / at AC-21 / rated value A 25 Short-time current resistance ((cw) / at 690 V / limited to 1 s / rated value Operating frequency Operating requency Operating voltage / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value **A 640 Service power / at AC-3 A • at 400 V / rated value **Bervice power / at AC-23 A • at 400 V / rated value **A 640 **Service power / at AC-23 A • at 400 V / rated value **A 7.5 **Operating cycles / maximum **I/h 50 **Operating cycles / maximum **A 640 **A 640 **A 640 **T.5 **Operating voltage / of the auxiliary contacts O Operating voltage / of the auxiliary contacts / for AC / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Impulse voltage resistance / rated value | V | 6,000 |
| contacts / typical Protection against electrical shock Item designation / according to DIN EN 61346-2 Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Main circuit: Continuous current / rated value Operating current / at AC-21 / rated value A 25 Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating frequency Hz 50 60 Operating voltage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • by 50 Continuous current / of the auxiliary contacts O Continuous current / of the auxiliary contacts Continuous current / of the auxiliary contacts / for AC / maximum V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gC; 25 A | Active power loss / per conductor / typical | W | 1.1 |
| Item designation / according to DIN EN 61346-2 Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Main circuit: Continuous current / rated value Operating current / at AC-21 / rated value A 25 Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating frequency Operating requency Operating voltage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value Number of NC contacts / for auxiliary contacts Operating cycles / maximum Auxiliary circuit: Number of NO contacts / for auxiliary contacts Outperating voltage / of the auxiliary contacts / for AC / maximum V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | | | 100,000 |
| Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Main circuit: Continuous current / rated value Operating current / at AC-21 / rated value Short-time current resistance (icw) / at 690 V / limited to 1 s / rated value Operating frequency Operating requency Operating roltage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 * at 400 V / rated value * at 690 V / r | Protection against electrical shock | | finger-safe |
| Main circuit: Continuous current / rated value Operating current / at AC-21 / rated value A 25 Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating frequency Operating requency Operating voltage / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • at 690 V / rated value Service power / at AC-23 A • at 400 V / rated value • at 690 V / rated value • www 7.5 Service power / at AC-23 A • at 400 V / rated value • www 9.5 Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Oundous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / for AC / maximum V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Item designation / according to DIN EN 61346-2 | | S |
| Continuous current / rated value Operating current / at AC-21 / rated value Short-time current resistance (Icw) / at 690 V / limited to 1 s / rated value Operating frequency Operating requency Operating voltage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 * at 400 V / rated value * at 690 V / rated value * by 9.5 Operating cycles / maximum Operating cycles / maximum Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts O Operating voltage / of the auxiliary contacts / for AC / maximum Operating voltage / of the auxiliary switch / rated value Operating voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | | | S |
| Operating current / at AC-21 / rated value Short-time current resistance (icw) / at 690 V / limited to 1 s / rated value Operating frequency Operating requency Operating voltage / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value Service power / at AC-23 A • at 400 V / rated value • at 690 V / rated value Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Number of change-over switches / for auxiliary contacts Operating voltage / of the auxiliary contacts / for AC / maximum Insulation voltage / of the auxiliary switch / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Main circuit: | | |
| Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating frequency Operating voltage / at 50/60 Hz / for AC / rated value V 690 Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts 0 Continuous current / of the auxiliary contacts Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contacts / for AC / maximum Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Continuous current / rated value | А | 25 |
| rated value Operating frequency Operating voltage / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • bw 9.5 • at 690 V / rated value • bw 9.5 • at 690 V / rated value • bw 9.5 • at 690 V / rated value • bw 9.5 • at 690 V / rated value • bw 9.5 • at 690 V / rated value • bw 9.5 • at 690 V / rated value | Operating current / at AC-21 / rated value | Α | 25 |
| Operating voltage / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | | А | 640 |
| Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value Service power / at AC-23 A • at 400 V / rated value • at 690 V / rated value Operating cycles / maximum I/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Operating frequency | Hz | 50 60 |
| at 400 V / rated value at 690 V / rated value kW 7.5 Service power / at AC-23 A at 400 V / rated value at 690 V / rated value kW 9.5 Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contacts / for AC / maximum Operating voltage / of the auxiliary contacts / for AC / maximum Number of change-over switches / for auxiliary contacts / for AC / maximum Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Operating voltage / at 50/60 Hz / for AC / rated value | V | 690 |
| * at 690 V / rated value * at 400 V / rated value * at 690 V / rated value Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Service power / at AC-3 | | |
| Service power / at AC-23 A • at 400 V / rated value • at 690 V / rated value Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contacts / for AC / maximum Insulation voltage / of the auxiliary switch / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | • at 400 V / rated value | kW | 7.5 |
| • at 400 V / rated value • at 690 V / rated value KW 9.5 | at 690 V / rated value | kW | 7.5 |
| • at 690 V / rated value Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Service power / at AC-23 A | | |
| Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 0 Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contacts / for AC / maximum Insulation voltage / of the auxiliary switch / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the main 1/h 50 0 1/h 50 | • at 400 V / rated value | kW | 9.5 |
| Auxiliary circuit: Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | • at 690 V / rated value | kW | 9.5 |
| Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Operating cycles / maximum | 1/h | 50 |
| Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts 0 | Auxiliary circuit: | | |
| Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Number of NC contacts / for auxiliary contacts | | 0 |
| Continuous current / of the auxiliary contact / rated value A 10 Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Number of NO contacts / for auxiliary contacts | | 0 |
| Operating voltage / of the auxiliary contacts / for AC / maximum V 500 Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Number of change-over switches / for auxiliary contacts | | 0 |
| Insulation voltage / of the auxiliary switch / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Continuous current / of the auxiliary contact / rated value | Α | 10 |
| Short-circuit: Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Operating voltage / of the auxiliary contacts / for AC / maximum | V | 500 |
| Design of the fuse link / for short-circuit protection of the main fuse gL/gG: 25 A | Insulation voltage / of the auxiliary switch / rated value | V | 500 |
| | Short-circuit: | | |
| | | | fuse gL/gG: 25 A |
| Design of the fuse link / for short-circuit protection of the auxiliary switch / required fuse gL/gG: 10 A | | | fuse gL/gG: 10 A |
| Installation/mounting/dimensions: | Installation/mounting/dimensions: | | |
| Type of mounting front mounting | Type of mounting | | front mounting |
| • front mounting Yes | • front mounting | | Yes |
| • front mounting with central fixation Yes | • front mounting with central fixation | | Yes |

| • front mounting with 4-hole fixation | | No |
|---------------------------------------|----|-------|
| • series installation | | Yes |
| Rail installation | | No |
| Width | mm | 67 |
| Height | mm | 84 |
| Depth | mm | 116.5 |

| Connection type: | |
|--|--------------------------------|
| Design of the electrical connection / for main current circuit | connection terminals |
| Design of the electrical connection / for auxiliary contact | connection terminals |
| Type of the connectable conductor cross-section / for main contacts | |
| • solid | 1.5 16 mm2 |
| finely stranded / with conductor end processing | 10 mm² |
| • stranded | 1.5 16 mm2 |
| Type of connectable conductor cross section / for auxiliary contacts | |
| • solid | 2x (0.75 to 2.5 mm2), 1x 4 mm2 |
| • stranded | 2x (0.75 2.5 mm2), 1x 4 mm2 |

| Certificates/approvals: | | |
|---|-----|---------------------------------------|
| Verification of suitability | | CSA / UL / CCC / GL / LRS / DNV / PRS |
| Conductor cross section that can be connected / for main contacts / solid / minimum | mm² | 1.5 |
| Conductor cross section that can be connected / for main contacts / solid / maximum | mm² | 16 |
| Conductor cross section that can be connected / for main contacts / stranded / minimum | mm² | 1.5 |
| Conductor cross section that can be connected / for main contacts / stranded / maximum | mm² | 16 |
| Conductor cross-section that can be connected / for main contacts / stranded wire / with conductor end processing / maximum | mm² | 10 |
| Conductor cross section that can be connected / for auxiliary contacts / solid / minimum | mm² | 0.75 |
| Conductor cross section that can be connected / for auxiliary contacts / solid / maximum | mm² | 4 |
| Conductor cross-section that can be connected / for auxiliary contact / stranded wire / with conductor end processing / minimum | mm² | 0.75 |
| Conductor cross-section that can be connected / for auxiliary contact / stranded wire / with conductor end processing / maximum | mm² | 2.5 |
| Conductor cross section that can be connected / for auxiliary contacts / stranded / min. | mm² | 0.75 |

Conductor cross section that can be connected / for auxiliary contacts / stranded / max.

mm²

4

Certificates/approvals:

General Product Approval









Test Certificates

Special Test Certificate

Shipping Approval





GL





other





Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/lowvoltage/mall

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

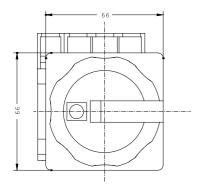
http://support.automation.siemens.com/WW/view/en/3LD2154-1TL51/all

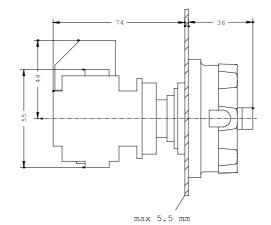
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

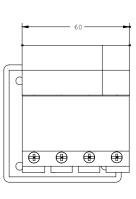
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2154-1TL51

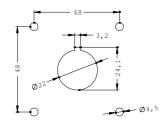
CAx-Online-Generator

http://www.siemens.com/cax









last change:

Apr 9, 2012