SIEMENS

Product data sheet 3LD2154-0TK51



MAIN CONTROL SWITCH 3-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		3
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 **T.5 **Operating voltage / at 50/60 Hz / for AC / rated value **A 690 V / rated value **Bervice power / at AC-23 A • at 400 V / rated value **A 640 V / rated value **A 640 V / rated value **A 650 V	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 Continuous current / of the auxiliary contacts / for AC / maximum 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			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	А	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 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 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
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

 $\,\mathrm{mm^2}$

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Certificates/approvals:

General Product Approval









Test Certificates

Special Test Certificate

Shipping Approval





GL





other

Declaration of Conformity



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,...)

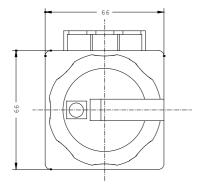
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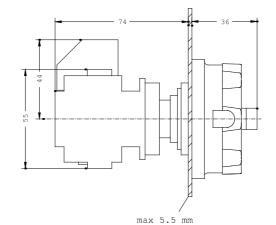
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

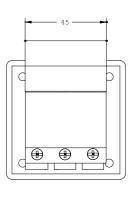
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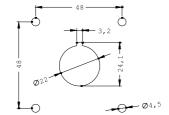
CAx-Online-Generator

http://www.siemens.com/cax









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