# **SIEMENS**

Product data sheet 3LD2054-0TK53



EMERG. STOP SWITCH 3-POLE IU=16, P/AC-23A AT 400V=7.5KW FRONT MOUNTING CENTER HOLE MOUNTING ROTARY ACTUATOR RED/YELLOW (EMERG. STOP)

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, red/yellow
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		Yes
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    Impulse voltage resistance / rated value   V   6,000     Active power loss / per conductor / typical   W   0.5     Mchanical operating cycles as operating time / of the main contacts / typical   100,000     Protection against electrical shock   finger-sale     Item designation / according to DIN EN 61346-2   S     Item designation / according to DIN 40719 extendable after IEC   S     204-2 / according to IEC 750     Main circuit:   Continuous current / rated value   A   16     Operating current / at AC-21 / rated value   A   16     Operating current / at AC-21 / rated value   A   340     Operating requency   Hz   50, 60     Operating requency   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   kW   5.5     * at 690 V / rated value   kW   5.5     * at 690 V / rated value   kW   7.5     * at 400 V / rated value   kW   7.5     * at 400 V / rated value   kW   7.5     * Operating cycles / maximum   1/h   50     Auxiliary circuit:   Number of NC contacts / for auxiliary contacts   0     Number of NC contacts / for auxiliary contacts   0     Number of ND contacts / for auxiliary contacts   0     Number of heape-over switches / for auxiliary contacts   0     Number of heape-over switches / for auxiliary contacts   0     Number of heape-over switches / for auxiliary contacts   0     Number of heape-over switches / for auxiliary contacts   0     Number of heape-over switches / for auxiliary contacts / for AC / maximum   V   500     Short-circuit:   500   500     Short-circuit:   500   500   500     Short-circuit:   500   500   500     Short-circuit:   500   500   500   500     Short-circuit:   500			
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 16  Operating current / at AC-21 / rated value  A 16  Operating current resistance (lcw) / at 690 V / limited to 1 s / a 340  rated value  Operating frequency  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  A 26  Service power / at AC-23 A  - at 400 V / rated value  A 34  - at 400 V / rated value  A 4  A 55  Service power / at AC-30  - at 400 V / rated value  A 55  Service power / at AC-30  - at 400 V / rated value  A 60  Operating cycles / maximum  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Ocontinuous current / of the auxiliary contact / rated value  A 10  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/gC: 20 A	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 204-2 / according to IEC 750  Main circuit:  Continuous current / rated value  Operating current / at AC-21 / rated value  A 16  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 6	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 16  Operating current / at AC-21 / rated value A 16  Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating requency Hz 50 60  Operating requency Particle power / at AC-3 * at 400 V / rated value * at 690 V / rated value * by 7.5  Operating cycles / maximum  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts Onumber of change-over switches / for auxiliary contacts 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: 20 A	Active power loss / per conductor / typical	W	0.5
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 16  Short-time current resistance (lcw) / at 690 V / limited to 1 s / a 340  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  A 16  Short-time current / at AC-3 A  • at 400 V / rated value  A 25.5  Service power / at AC-3 A  • at 400 V / rated value  A 3.6  Operating cycles / maximum  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Ochimuous 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/gG: 20 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 16  Operating current resistance (lcw) / at 690 V / limited to 1 s / rated value  Operating frequency  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  *** **Exercise power / at AC-23 A  • at 400 V / rated value  *** **AC-23 A  • at 400 V / rated value  *** **AC-23 A  • at 400 V / rated value  *** **AC-25 A  • at 690 V / rated value  *** **AC-25 A  • at 600 V / rated value  ** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V / rated value  *** **AC-25 A  • at 600 V /	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  * 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  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: 20 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 voltage / at 50/60 Hz / for AC / rated value  Service power / at AC-3  • 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 change-over switches / for auxiliary contacts  Operating voltage / 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: 20 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  V 500  Short-circuit:  Design of the fuse link / for short-circuit protection of the main  fuse gL/gG: 20 A	Continuous current / rated value	Α	16
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 current / at AC-21 / rated value	Α	16
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 7.5  Operating cycles / maximum  1/h 50  Auxiliary circuit:  Number of NC contacts / for auxiliary contacts  • 0  Number of NO contacts / for auxiliary contacts  • 0  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: 20 A		Α	340
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  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: 20 A	Operating frequency	Hz	50 60
at 400 V / rated value  at 690 V / rated value  kW 5.5  Service power / at AC-23 A  at 400 V / rated value  kW 7.5  at 690 V / rated value  kW 7.5  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 contact / rated value  Operating voltage / of the auxiliary contacts / for AC / maximum  V 500  Insulation voltage / of the auxiliary switch / rated value  Design of the fuse link / for short-circuit protection of the main  fuse gL/gG: 20 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  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  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: 20 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: 20 A	• at 400 V / rated value	kW	5.5
• at 400 V / rated value  • at 690 V / rated value  RW 7.5  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  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: 20 A	• at 690 V / rated value	kW	5.5
• 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 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: 20 A	Service power / at AC-23 A		
Operating cycles / maximum  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  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	7.5
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: 20 A	• at 690 V / rated value	kW	7.5
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: 20 A	Operating cycles / maximum	1/h	50
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: 20 A	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: 20 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: 20 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: 20 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: 20 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: 20 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: 20 A	Insulation voltage / of the auxiliary switch / rated value	V	500
	Short-circuit:		
			fuse gL/gG: 20 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 6 mm2
finely stranded / with conductor end processing	4 mm²
• stranded	1 6 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
Conductor cross section that can be connected / for main contacts / solid / maximum	mm²	6
Conductor cross section that can be connected / for main contacts / stranded / minimum	mm²	1
Conductor cross section that can be connected / for main contacts / stranded / maximum	mm²	6
Conductor cross-section that can be connected / for main contacts / stranded wire / with conductor end processing / maximum	mm²	4
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** 









other

Manufacturer

#### **Shipping Approval**







Manufacturer

## 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,...)

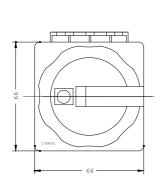
http://support.automation.siemens.com/WW/view/en/3LD2054-0TK53/all

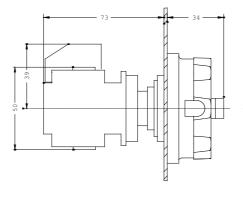
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

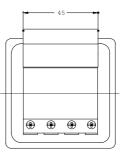
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2054-0TK53

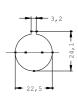
#### **CAx-Online-Generator**

http://www.siemens.com/cax









last change:

Dec 12, 2011