SIEMENS

Product data sheet 3LD2150-0TK11



MAIN CONTROL SWITCH 3-POLE IU=25, P/AC-23A AT 400V=9,5KW FRONT MOUNTING CENTRAL-HOLE MOUNTING KNOB 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		knob-operated mechanism, 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	

Impulse voltage resistance / rated value 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 40719 extendable after IEC 204-2 / according to IEC 750 Main circuit: Continuous current / rated value Operating current / at AC-21 / rated value Operating requency Operating roll at 50/60 Hz / for AC / rated value 1	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 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extended value 205-2 / according frequency 205-2 / according to DIN 40719 extended value 205-2 / according frequency 205-	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	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 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 V 690 Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value **No V 7.5 Service power / at AC-3 A • at 400 V / rated value **No V 7.5 Service power / at AC-3 A • at 400 V / rated value **No V 7.5 Service power / main AC-20 / rated value **No V 7.5 **No V 7			100,000
Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Main circuit: Continuous current / rated value A 25 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 O Number of NO contacts / for auxiliary contacts O Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting • front mounting	Protection against electrical shock		finger-safe
Main circuit: Continuous current / rated value Operating current / at AC-21 / rated value Operating current resistance (lcw) / at 690 V / limited to 1 s / at 640 Short-time current resistance (lcw) / at 690 V / limited to 1 s / at 640 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 -	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 frequency Operating voltage / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value **NW** 7.5 Service power / at AC-23 A • at 400 V / rated value **NW** 9.5 Service power / at AC-23 A • at 400 V / rated value **NW** 9.5 Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NC 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 Insulation voltage / of the auxiliary switch / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting * front mounting front mounting front mounting front mounting			S
Operating current / at AC-21 / rated value Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating frequency Operating rollinge / at 50/60 Hz / for AC / rated value Service power / at AC-3 • at 400 V / rated value • at 690 V / rated value • AUXIII ary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Continuous current / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / rated value V 500 Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting	Main circuit:		
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 • bkW 9.5 Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Operating voltage / of the auxiliary contact / rated value Operating voltage / of the auxiliary contact / 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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting	Continuous current / rated value	Α	25
Parameter Para	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 * at 690 V / rated value * at 690 V / rated value * at 400 V / rated value * at 690 V / rated value * Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts O continuous 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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting * front mounting * Yes ** **W 7.5 ** ** ** ** ** ** ** ** ** ** ** ** *	• • •	А	640
Service power / at AC-3 * at 400 V / rated value * at 690 V / rated value * by 9.5 * Operating cycles / maximum * 1/h 50 * Auxiliary circuit: Number of NC contacts / for auxiliary contacts * 0 Number of NO contacts / for auxiliary contacts * 0 * Operating voltage - ver switches / for auxiliary contacts * 0 Operating voltage / 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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting * front mounting * front mounting * front mounting * Yes	Operating frequency	Hz	50 60
*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 *a	Operating voltage / at 50/60 Hz / for AC / rated value	V	690
*at 690 V / rated value kW 9.5 *at 400 V / rated value kW 9.5 *at 690 V / rated value kW 9.5 Operating cycles / maximum 1/h 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Number of change-over switches / for auxiliary contact 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 circuit / necessary fuse gL/gG: 25 A continuous witch / required fuse link / for short-circuit protection of the auxiliary switch / required front mounting front mounting front mounting / Yes	Service power / at AC-3		
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 NC 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 auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting front mounting front mounting Yes	• at 400 V / rated value	kW	7.5
* at 400 V / rated value * at 690 V / rated value * at 690 V / rated value * Auxiliary circuit: **Number of NC contacts / for auxiliary contacts **Number of NO contacts / for auxiliary contacts **Number of change-over switches / for auxiliary contacts **Outinuous current / of the auxiliary contact / rated value **Operating voltage / of the auxiliary contact / for AC / maximum **Insulation voltage / of the auxiliary switch / rated value **Design of the fuse link / for short-circuit protection of the main circuit / necessary **Design of the fuse link / for short-circuit protection of the auxiliary switch / required **Installation/mounting/dimensions:** Type of mounting **front mounting **front mounting **Installation/mounting/dimensions:** **Type of mounting **Type o	• 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 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 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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting • front mounting Yes	Service power / at AC-23 A		
Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO 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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting • front mounting	• at 400 V / rated value	kW	9.5
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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting • front mounting Yes	• 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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting Yes	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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting front mounting Yes	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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting front mounting Yes	Number of NC contacts / for auxiliary contacts		0
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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting • front mounting Yes	Number of NO contacts / for auxiliary contacts		0
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 circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting Y 500 V 500 Fuse gL/gG: 25 A fuse gL/gG: 25 A fuse gL/gG: 10 A Installation/mounting/dimensions: Type of mounting • front mounting Yes	Number of change-over switches / for auxiliary contacts		0
Insulation voltage / of the auxiliary switch / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting Y 500 V 500 Fuse gL/gG: 25 A fuse gL/gG: 10 A fuse gL/gG: 10 A Installation/mounting/dimensions: Type of mounting • front mounting Yes	Continuous current / of the auxiliary contact / rated value	Α	10
Short-circuit: Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting Yes	Operating voltage / of the auxiliary contacts / for AC / maximum	V	500
Design of the fuse link / for short-circuit protection of the main circuit / necessary Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting Yes	Insulation voltage / of the auxiliary switch / rated value	V	500
Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: Type of mounting • front mounting Yes	Short-circuit:		
Installation/mounting/dimensions: Type of mounting • front mounting Yes			fuse gL/gG: 25 A
Type of mounting • front mounting Yes			fuse gL/gG: 10 A
• front mounting Yes	Installation/mounting/dimensions:		
	Type of mounting		front mounting
• front mounting with central fixation Yes	• front mounting		Yes
	front mounting with central fixation		Yes

• front mounting with 4-hole fixation		No
• series installation		Yes
Rail installation		No
Width	mm	49
Height	mm	66
Depth	mm	113.5

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.

 $\,\mathrm{mm^2}$

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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,...)

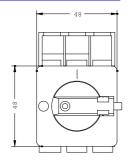
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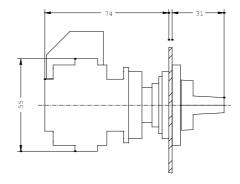
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

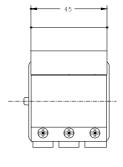
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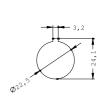
CAx-Online-Generator

http://www.siemens.com/cax









last change:

Apr 9, 2012