SIEMENS

Product data sheet 3LD2730-0TK11



MAIN CONTROL SWITCH 3-POLE IU=100, P/AC-23A AT 400V=37KW BASE MOUNTING MOUNTING RAIL/TWO-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		IP44
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 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 100 Operating current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating requency Operating requency A 2,000 Protection against electrical shock Item designation / according to DIN 40719 extendable after IEC S S Main circuit: Continuous current / rated value A 100 Operating current resistance (lcw) / at 690 V / limited to 1 s / rated value Short-time current resistance (lcw) / at 690 V / limited to 1 s / rated value Operating requency A 2,000 Protecting 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 30 Operating cycles / maximum Auxiliary 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 contacts	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 EN 61346-2 S S Item designation / according to DIN 40719 extendable after IEC 204-2 / according to EC 750 Main circuit: Continuous current / rated value A 100 Operating current / at AC-21 / rated value A 100 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 /	Impulse voltage resistance / rated value	V	6,000
contacts / typical Protection against electrical shock Item designation / according to DIN EN 61346-2 S S Wain circuit: Continuous current / rated value Operating current / at AC-21 / rated value A 100 Short-time current resistance (Icw) / at 690 V / limited to 1 s / rated value Operating requency 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 valu	Active power loss / per conductor / typical	W	7.5
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 100 Short-time current resistance (lcw) / at 690 V / limited to 1 s / a 2,000 rated value 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 *at 400 V / rated value *but 37 *at 400 V / rated value *but 30 *at 400 V / rated valu			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 A 100 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 • at 690 V / rated value • at 690 V / rated value • at 400 V / rated value • at 400 V / rated value • at 690 V / rated value •	Protection against electrical shock		finger-safe
Main circuit: Continuous current / rated value A 100 Operating current / at AC-21 / rated value A 100 Short-time current resistance (lcw) / at 690 V / limited to 1 s / A 2,000 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 A 100 Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 100	Item designation / according to DIN EN 61346-2		S
Continuous current / rated value Operating current / at AC-21 / rated value A 100 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 service power / at AC-23 A • at 400 V / rated value kW 37 • at 690 V / rated value kW 37 • at 690 V / rated value kW 30 Operating cycles / maximum 1/h 50 Auxilliary circuit: Number of NC contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Ocurrent / of the auxiliary contact / rated value A 100			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 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 kW 37 • at 690 V / rated value kW 37 • at 690 V / rated value kW 30 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 Ocontinuous current / of the auxiliary contact / rated value A 100	Main circuit:		
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 Service power / at AC-23 A • at 400 V / rated value kW 37 • at 690 V / rated value kW 37 • at 690 V / rated value has a 690 V / rated value kW 30 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 Ocontinuous current / of the auxiliary contact / rated value A 10	Continuous current / rated value	А	100
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 • at 400 V / rated value • at 400 V / rated value Number of NC contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10	Operating current / at AC-21 / rated value	Α	100
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 8W 22 Service power / at AC-23 A • at 400 V / rated value • at 690 V / rated value 8W 37 • at 690 V / rated value 8W 30 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 O continuous current / of the auxiliary contact / rated value A 10		А	2,000
Service power / at AC-3 • at 400 V / rated value	Operating frequency	Hz	50 60
 at 400 V / rated value at 690 V / rated value kW 22 Service power / at AC-23 A at 400 V / rated value kW 37 at 690 V / rated value kW 30 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 / at 50/60 Hz / for AC / rated value	V	690
• at 690 V / rated value	Service power / at AC-3		
Service power / at AC-23 A • at 400 V / rated value	• at 400 V / rated value	kW	30
at 400 V / rated value at 690 V / rated value kW 30 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	• at 690 V / rated value	kW	22
• at 690 V / rated value KW 30 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 0 Continuous current / of the auxiliary contact / rated value A 10	Service power / at AC-23 A		
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 0 Continuous current / of the auxiliary contact / rated value A 10	• at 400 V / rated value	kW	37
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 0 Continuous current / of the auxiliary contact / rated value A 10	• at 690 V / rated value	kW	30
Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Number of change-over switches / for auxiliary contacts 0 Continuous current / of the auxiliary contact / rated value A 10	Operating cycles / maximum	1/h	50
Number of NO contacts / for auxiliary contacts 0 Number of change-over switches / for auxiliary contacts 0 Continuous current / of the auxiliary contact / rated value A 10	Auxiliary circuit:		
Number of change-over switches / for auxiliary contacts Continuous current / of the auxiliary contact / rated value A 10	Number of NC contacts / for auxiliary contacts		0
Continuous current / of the auxiliary contact / rated value A 10	Number of NO contacts / for auxiliary contacts		0
·	Number of change-over switches / for auxiliary contacts		0
Operating voltage / of the guyillary contacts / for AC / maximum	Continuous current / of the auxiliary contact / rated value	Α	10
Operating voltage / of the auxiliary contacts / for AC / maximum	Operating voltage / of the auxiliary contacts / for AC / maximum	V	500
Insulation voltage / of the auxiliary switch / rated value V 500	Insulation voltage / of the auxiliary switch / rated value	V	500
Short-circuit:	Short-circuit:		
Design of the fuse link / for short-circuit protection of the main circuit / necessary fuse gL/gG: 100 A			fuse gL/gG: 100 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 floor mounting	Type of mounting		floor mounting
• front mounting No	• front mounting		No
• front mounting with central fixation No	• front mounting with central fivation		

• front mounting with 4-hole fixation		No
• series installation		Yes
Rail installation		No
Width	mm	71
Height	mm	83
Depth	mm	97

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				
finely stranded / with conductor end processing	35 mm ²			
Type of connectable conductor cross section / for auxiliary contacts				
• solid	2x (0.75 to 2.5 mm2), 1x 4 mm2			
• finely stranded / with conductor end processing	2x (0.75 1.5 mm2), 1x 2.5 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	4
Conductor cross section that can be connected / for main contacts / solid / maximum	mm²	50
Conductor cross section that can be connected / for main contacts / stranded / minimum	mm²	4
Conductor cross section that can be connected / for main contacts / stranded / maximum	mm²	50
Conductor cross-section that can be connected / for main contacts / stranded wire / with conductor end processing / maximum	mm²	35
Conductor cross-section that can be connected / for auxiliary contact / solid / minimum	mm²	0.75
Conductor cross-section that can be connected / for auxiliary contact / solid / maximum	mm²	4
Conductor cross-section that can be connected / for auxiliary contact / finely stranded / with conductor end processing / minimum	mm²	0.75
Conductor cross-section that can be connected / for auxiliary contact / finely stranded / 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









Special Test Certificate

Test Certificates

Shipping Approval

other



GL



Declaration of Conformity

Environmental Confirmations

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,...)

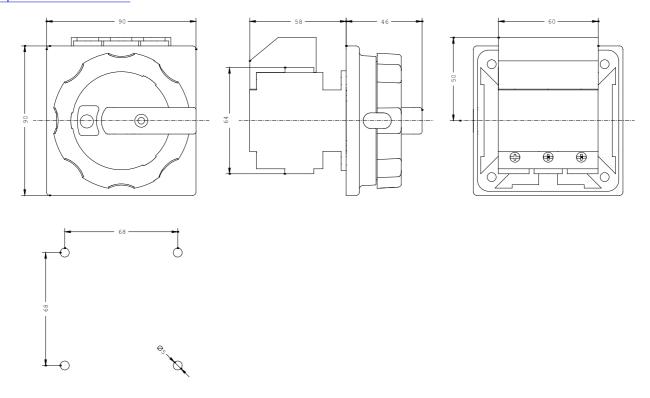
http://support.automation.siemens.com/WW/view/en/3LD2730-0TK11/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2730-0TK11

CAx-Online-Generator

http://www.siemens.com/cax



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