SIEMENS

Data sheet 3LD2222-0TK13



MAIN/EMERG. STOP SWITCH 3-POLE IU=32, P/AC-23A AT 400V=11.5KW FRONT MOUNTING FOUR-HOLE MOUNTING KNOB RED/YELLOW (EMERG. STOP)

Figure similar

Model				
product brand name		SENTRON		
Product designation		Main and EMERGENCY-STOP switches		
Design of the operating mechanism		knob-operated mechanism, red/yellow		
Type of the driving mechanism / motor drive		No		
General technical data				
Number of poles		3		
Type of device		fixed mounting		
Protection against electrical shock		finger-safe		
Mechanical service life (switching cycles) / of the main contacts / typical		100 000		
Operating frequency / maximum	1/h	50		
Voltage				
Insulation voltage / Rated value	V	690		
Surge voltage resistance / Rated value	V	6 000		
Protection class				
Protection class IP		IP65		
Electricity				
Continuous current / Rated value	Α	32		
Short-time current resistance (Icw) / at 690 V / limited	Α	640		
to 1 s / Rated value				
Main circuit				
Operating frequency				
• initial value	Hz	50		

Operating power • at AC-23 A / at 400 V / Rated value • at AC-23 A / at 690 V / Rated value • at AC-3 / at 400 V / Rated value • at AC-3 / at 400 V / Rated value • at AC-3 / at 690 V / Rated value • at AC-3 / at 690 V / Rated value • at AC-3 / at 690 V / Rated value • with AC / at 50/60 Hz / Rated value V 9.5 Operating vortage • with AC / at 50/60 Hz / Rated value A 32	Full-scale value	Hz	60
• at AC-23 A / at 690 V / Rated value	Operating power		
• at AC-3 / at 400 V / Rated value	• at AC-23 A / at 400 V / Rated value	kW	11.5
at AC-3 / at 690 V / Rated value by 690 Operating voltage with AC / at 50/60 Hz / Rated value Operating current / at AC-21 / Rated value A 32 Auxiliarry circuit Number of CC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Operating voltage / of the auxiliary contacts Operating voltage / oper	• at AC-23 A / at 690 V / Rated value	kW	11.5
Operating voltage • with AC / at 50/60 Hz / Rated value Operating current / at AC-21 / Rated value A 32 Auxiliary circuit Number of CO contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Operating voltage / of the auxiliary contacts Operating voltage / of the auxiliary contacts / with AC / maximum Continuous current / of the auxiliary contact / Rated value Insulation voltage / of the auxiliary switch / Rated value Suitability Suitability Suitability Suitability Suitability Froduct descended / maximum • motor drive • Ves Product details Product expansion / optional • motor drive • Voltage trigger No Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / minimum — single or multi-stranded / maximum — single or multi-stranded / maximum — stranded / minimum — stranded / maximum mm² 1.5	• at AC-3 / at 400 V / Rated value	kW	9.5
with AC / at 50/60 Hz / Rated value Operating current / at AC-21 / Rated value A 32 Auxiliary circuit Number of CO contacts / for auxiliary contacts On contacts / for auxiliary contacts Operating voltage / of the auxiliary contacts Operating voltage / of the auxiliary contacts / with AC / maximum Continuous current / of the auxiliary contact / Rated value Insulation voltage / of the auxiliary switch / Rated value Suitability Suitability Suitability Suitability Suitability Froduct disconnector Self (Secondary) - EMERGENCY OFF switch - safety switch - maintenance/repair switch Product details Product details Product expansion / optional - motor drive - Voltage trigger Connections Connections Connections Connections Connections Connections Connections - single or multi-stranded / minimum - finely stranded / with core end processing / maximum - stranded / minimum - stranded / maximum M	• at AC-3 / at 690 V / Rated value	kW	9.5
Operating current / at AC-21 / Rated value Auxiliary circuit Number of CO contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Ourhouse of NC contacts / for auxiliary contacts Operating voltage / of the auxiliary contacts / with AC / maximum Continuous current / of the auxiliary contact / Rated value Continuous current / of the auxiliary switch / Rated value Suitability Suitability Suitability Suitability or use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product details Product details Product details Product expansion / optional • motor drive • Voltage trigger Connectable conductor cross-section • for main contacts — single or multi-stranded / minimum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / maximum mm² 1.5 ms 1.5	Operating voltage		
Auxiliary circuit Number of CO contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Operating voltage / of the auxiliary contacts / with AC / maximum Continuous current / of the auxiliary contact / Rated value Insulation voltage / of the auxiliary switch / Rated value Insulation voltage / of the auxiliary switch / Rated value Suitability Suitability Suitability Suitability Suitability For use Main switch safety switch safety switch maintenance/repair switch Product details Product details Product expansion / optional motor drive Voltage trigger Connections Connectable conductor cross-section for main contacts — single or multi-stranded / minimum — single or multi-stranded / miximum — finely stranded / miximum — stranded / minimum — stranded / maximum mm² 1.5 mm² 1.6	• with AC / at 50/60 Hz / Rated value	V	690
Number of CO contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Ourbound of NC contacts / for auxiliary contacts Operating voltage / of the auxiliary contacts / with AC / maximum Continuous current / of the auxiliary contact / Rated value Insulation voltage / of the auxiliary switch / Rated value Insulation voltage / of the auxiliary switch / Rated value Suitability Suitability Suitability Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • safety switch • maintenance/repair switch Product details Product details Product expansion / optional • motor drive • Voltage trigger Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / maximum — single or multi-stranded / maximum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / minimum — stranded / maximum mm² 1.5 maximum — stranded / minimum — stranded / maximum mm² 1.5 mm² 1.5 mm² 1.5 mm² 1.5	Operating current / at AC-21 / Rated value	Α	32
Number of CO contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Ourbound of NC contacts / for auxiliary contacts Operating voltage / of the auxiliary contacts / with AC / maximum Continuous current / of the auxiliary contact / Rated value Insulation voltage / of the auxiliary switch / Rated value Insulation voltage / of the auxiliary switch / Rated value Suitability Suitability Suitability Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • safety switch • maintenance/repair switch Product details Product details Product expansion / optional • motor drive • Voltage trigger Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / maximum — single or multi-stranded / maximum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / minimum — stranded / maximum mm² 1.5 maximum — stranded / minimum — stranded / maximum mm² 1.5 mm² 1.5 mm² 1.5 mm² 1.5	Auxiliary circuit		
Number of NO contacts / for auxillary contacts Operating voltage / of the auxillary contacts / with AC / maximum Continuous current / of the auxillary contact / Rated value Insulation voltage / of the auxillary switch / Rated value Insulation voltage / of the auxillary switch / Rated value Suitability Suitability Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product details Product details Product feature / interlock Product expansion / optional • motor drive • Voltage trigger Connections Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / minimum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / maximum mm² 1.5 mm² 1.5 mm² 1.5 mm² 1.5			0
Operating voltage / of the auxiliary contacts / with AC / maximum Continuous current / of the auxiliary contact / Rated value Insulation voltage / of the auxiliary switch / Rated value V 500 Suitability Product descend for a safety switch Product details Product details Product feature / interlock Product expansion / optional • motor drive • Voltage trigger Connectable conductor cross-section • for main contacts — single or multi-stranded / minimum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / maximum mm² 1.5 mm² 1.5 mm² 1.5 mm² 1.5	Number of NC contacts / for auxiliary contacts		0
/ maximum Continuous current / of the auxiliary contact / Rated value Insulation voltage / of the auxiliary switch / Rated value Suitability Found the auxiliary switch / Rated value Yes Main switch Switch disconnector EMERGENCY OFF switch Safety switch Tes Tes Tes Tes Tes Tes Tes Te	Number of NO contacts / for auxiliary contacts		0
value Insulation voltage / of the auxiliary switch / Rated value Suitability Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product details Product details Product expansion / optional • motor drive • Voltage trigger Connectable conductor cross-section • for main contacts — single or multi-stranded / minimum — single or multi-stranded / maximum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / maximum — stranded / minimum — stranded / minimum — stranded / maximum — stra		V	500
value Suitability Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product details Product details Product feature / interlock Product expansion / optional • motor drive • Voltage trigger No Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / maximum — single or multi-stranded / maximum — finely stranded / with core end processing / mm² 1.5 — stranded / minimum — stranded / maximum — stranded / maximum — stranded / maximum mm² 1.5 — stranded / maximum mm² 1.6 — stranded / maximum mm² 1.7 1.8 — stranded / maximum mm² 1.8 — stran	-	Α	10
Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product details Product details Product expansion / optional • motor drive • Voltage trigger Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / maximum — single or multi-stranded / maximum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / minimum — stranded / minimum mm² 1.5 maximum — stranded / minimum mm² 1.5 mm² 1.5 maximum mm² 1.5 maximum mm² 1.5 maximum mm² 1.5		V	500
Main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details Product details Product expansion / optional motor drive Voltage trigger Connections Connectable conductor cross-section for main contacts — single or multi-stranded / minimum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / maximum mm² 1.5 mm² 1.5 mm² 1.5 maximum — stranded / minimum mm² 1.5 maximum mm² 1.5 maximum — stranded / minimum mm² 1.5 maximum mm² 1.5	Suitability		
switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details Product feature / interlock Product expansion / optional motor drive Voltage trigger Connections Connectable conductor cross-section for main contacts — single or multi-stranded / minimum — single or multi-stranded / maximum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / minimum mm² 1.5 maximum — stranded / minimum mm² 1.5 maximum — stranded / minimum mm² 1.5 maximum — stranded / maximum mm² 1.5 maximum mm² 1.5			
EMERGENCY OFF switch safety switch maintenance/repair switch Product details Product feature / interlock Product expansion / optional motor drive Voltage trigger No Connections Connectable conductor cross-section for main contacts — single or multi-stranded / maximum — finely stranded / with core end processing / maximum — stranded / minimum mm² 1.5 maximum — stranded / minimum mm² 1.5 maximum mm² 1.5 maximum mm² 1.5 maximum mm² 1.5 maximum mside or multi-stranded / maximum mm² 1.5 maximum mside or minimum	Main switch		Yes
safety switch maintenance/repair switch Product details Product expansion / optional motor drive Voltage trigger Connections Connectable conductor cross-section for main contacts — single or multi-stranded / minimum — finely stranded / with core end processing / maximum — stranded / minimum mm² 1.5 maximum — stranded / minimum mm² 1.5 maximum — stranded / minimum mm² 1.5 maximum mm² 1.5	switch disconnector		Yes
maintenance/repair switch Product details Product feature / interlock Product expansion / optional motor drive Voltage trigger Connections Connectable conductor cross-section for main contacts — single or multi-stranded / minimum — finely stranded / with core end processing / maximum — stranded / minimum mm² 1.5 maximum — stranded / minimum mm² 1.5 maximum — stranded / minimum mm² 1.5 maximum mm² 1.5	 EMERGENCY OFF switch 		Yes
Product details Product feature / interlock Product expansion / optional • motor drive • Voltage trigger Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / minimum — single or multi-stranded / maximum — finely stranded / with core end processing / mm² — stranded / minimum — stranded / minimum — stranded / maximum	safety switch		Yes
Product expansion / optional • motor drive • Voltage trigger Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / minimum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / minimum — stranded / maximum mm² 1.5 — stranded / maximum mm² 1.5 — stranded / maximum mm² 1.5	maintenance/repair switch		Yes
Product expansion / optional • motor drive • Voltage trigger No Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / minimum — single or multi-stranded / maximum — finely stranded / with core end processing / mm² — stranded / minimum — stranded / minimum — stranded / minimum — stranded / minimum — stranded / maximum	Product details		
motor drive Voltage trigger Connections Connectable conductor cross-section for main contacts — single or multi-stranded / minimum	Product feature / interlock		Yes
● Voltage trigger Connections Connectable conductor cross-section ● for main contacts — single or multi-stranded / minimum mm² 1.5 — single or multi-stranded / maximum mm² 16 — finely stranded / with core end processing / mm² 10 maximum — stranded / minimum mm² 1.5 — stranded / maximum 1.5 — stranded / maximum mm² 1.5	Product expansion / optional		
Connections Connectable conductor cross-section • for main contacts — single or multi-stranded / minimum mm² 1.5 — single or multi-stranded / maximum mm² 16 — finely stranded / with core end processing / mm² 10 maximum — stranded / minimum mm² 1.5 — stranded / maximum mm² 1.5	motor drive		No
Connectable conductor cross-section ● for main contacts — single or multi-stranded / minimum mm² 1.5 — single or multi-stranded / maximum mm² 16 — finely stranded / with core end processing / mm² 10 maximum — stranded / minimum mm² 1.5 — stranded / maximum mm² 1.5	 Voltage trigger 		No
Connectable conductor cross-section ● for main contacts — single or multi-stranded / minimum mm² 1.5 — single or multi-stranded / maximum mm² 16 — finely stranded / with core end processing / mm² 10 maximum — stranded / minimum mm² 1.5 — stranded / maximum mm² 1.5	Connections		
 — single or multi-stranded / minimum — single or multi-stranded / maximum — finely stranded / with core end processing / mm² — stranded / minimum — stranded / maximum — stranded / maximum — stranded / maximum 1.5 — stranded / maximum — 16 			
 — single or multi-stranded / maximum — finely stranded / with core end processing / mm² — stranded / minimum — stranded / maximum — stranded / maximum — stranded / maximum — 1.5 — stranded / maximum — 1.5 — stranded / maximum — 1.5 — 1.5	• for main contacts		
— finely stranded / with core end processing / mm² 10 maximum — stranded / minimum mm² 1.5 mm² 16	— single or multi-stranded / minimum	mm²	1.5
maximum — stranded / minimum — stranded / maximum mm² 1.5 mm² 16	- single or multi-stranded / maximum	mm²	16
— stranded / maximum mm² 16		mm²	10
	— stranded / minimum	mm²	1.5
	— stranded / maximum	mm²	16

— single or multi-stranded / minimum	mm²	0.75
— single or multi-stranded / maximum	mm²	4
finely stranded / with core end processing / minimum	mm²	0.75
 finely stranded / with core end processing / maximum 	mm²	2.5
— stranded / minimum	mm²	0.75
— stranded / maximum	mm²	4
Type of connectable conductor cross-section		
 for main contacts / finely stranded / with core end processing 		10
 for auxiliary contacts 		
— solid		50
— finely stranded / with core end processing		2x (0.75 1.5 mm2), 1x 2.5 mm2
Type of electrical connection		
for main current circuit		connection terminals
for auxiliary contacts		connection terminals
_		
Requirements Design of the fuse link		
_		func al /aC: 40 A
 for short-circuit protection of the main circuit / required 		fuse gL/gG: 40 A
 for short-circuit protection of the auxiliary switch / required 		fuse gL/gG: 10 A
Mechanical Design		
Height	mm	71
Width	mm	49
Depth	mm	85.5
Mounting type		front mounting
Mounting type		
• front mounting		
		Yes
• front mounting with 4-hole attachment		Yes Yes
front mounting with 4-hole attachmentfront mounting with central attachment		
		Yes
• front mounting with central attachment		Yes No
front mounting with central attachmentSide-by-side mounting		Yes No Yes
 front mounting with central attachment Side-by-side mounting rail mounting 		Yes No Yes
 front mounting with central attachment Side-by-side mounting rail mounting Environmental conditions	°C	Yes No Yes
 front mounting with central attachment Side-by-side mounting rail mounting Environmental conditions Ambient temperature 	°C °C	Yes No Yes No
front mounting with central attachment Side-by-side mounting rail mounting Environmental conditions Ambient temperature during operation / minimum during operation / maximum Certificates		Yes No Yes No -25
front mounting with central attachment Side-by-side mounting rail mounting Environmental conditions Ambient temperature during operation / minimum during operation / maximum		Yes No Yes No -25

General Product Approval













General Product Approval	Declaration of Conformity	Test Certificates	Shipping App	roval	other
<u>other</u>	ϵ	Special Test Certificate	[GL®]		Environmental Confirmations
	EG-Konf.		GI	PRS	

Further information

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

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

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3LD22220TK13

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3LD22220TK13/all

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

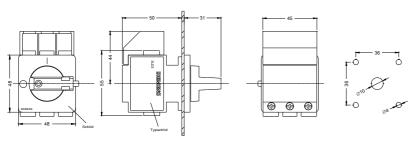
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD22220TK13

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



last modified: 11.03.2015