SIEMENS

Data sheet 3LD2022-1TL13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4-pole, Iu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, front-mounted, knob-operated mechanism, red/yellow, 4-hole mounting of the handle

product brand name design of the product design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of the actuating element design of the actuating element design of handle type of the driving mechanism / motor drive Ceneral technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / typical insulation voltage / rated value operating frequency / maximum degree of pollution Voltago insulation voltage / rated value	Model		
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operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value • minimum • maximum Frotection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value 16 A	electrical endurance (switching cycles)		
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	• at 45 °C / rated value	16 A	

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parallol current at AC-21 / at 590 V / rated value at AC-21 / at 590 V / rated value at AC-21 / at 590 V / rated value at AC-21 / at 590 V / rated value at AC-21 / at 590 V / rated value at AC-21 / at 590 V / rated value at AC-21 / at 590 V / rated value at AC-21 / at 590 V / rated value at AC-23 / at 400 V / rated value at AC-23 / at 400 V / rated value at AC-23 / at 400 V / rated value at AC-23 / at 400 V / rated value at AC-31 / at 240 V / rated value at AC-31 / at 240 V / rated value at AC-31 / at 240 V / rated value at AC-31 / at 240 V / rated value at AC-31 / at 240 V / rated value at AC-31 / at 240 V / rated value at AC-31 / at 240 V / rated value burber of CO contacts / for auxiliary contacts number of CO contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts number of Contacts / for auxiliary contacts number of Contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts number of Contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts number of NO contacts / for		
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at AC-23 A / at 400 V / rated value at AC-23 A / at 460 V / rated value at AC-23 A / at 560 V / rated value at AC-3 / at 20 V / rated value at AC-3 / at 20 V / rated value at AC-3 / at 20 V / rated value at AC-3 / at 400 V / rated value be at AC-3 / at 690 V / rated value at AC-3 / at 690 V / rated value be at AC-3 / at 690 V / rated value be at AC-3 / at 690 V / rated value at AC-3 / at 690 V / rated value be at AC-3 / at 690 V / rated value be at AC-3 / at 690 V / rated value at AC-3 / at 690 V / rated value be at AC-3 / at 690 V / rated value at AC-3 / at 690 V / rated value be at AC-3 / at 690 V / rated value at AC-3 / at 690 V / rated value continuous current / of the auxiliary contacts operating voltage / of auxiliary contact / rated value suitability suitability for use main switch switch disconnector be MERCENCY OFF switch safety switch safety switch maintenance/repair switch Product details product feature / can be locked into OFF position at at 690 V / resident for auxiliary contacts / retained for auxiliary contacts		
at AC-23 A / at 440 V / rated value at AC-23 / at 400 V / rated value at AC-3 / at 400 V / rated value at AC-3 / at 400 V / rated value at AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value but AC-3 / at 400 V / rated value continuous current / of the auxiliary contacts contacts / or auxiliary contacts / rated value continuous current / of the auxiliary contact / rated value continuous current / of the auxiliary switch / rated value solutability sultability for use main switch main switch which social		
at AC-23 A / at 690 V / rated value at AC-3 / at 240 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 5.5 kW Auxiliary circuit number of CO contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value Suitability for use • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • ratin switch • ves • EMERGENCY OFF switch • safety switch • ves • ratin switch • ratin swit		
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at AC-3 / at 400 V / rated value 5.5 kW at AC-3 / at 690 V / rated value 5.5 kW Auxiliary cruit number of CO contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value 500 V Sultability suitability for use		
aut AC-3 / at 690 V / rated value Auxiliary circuit number of CO contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts ocerating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value suitability for use • main switch • switch disconnector • switch disconnector • safety switch • maintenance/repair switch Yes • safety switch • maintenance/repair switch Yes • safety switch • maintenance/repair switch • maintenance/repair switch Yes Product detatlis product feature / can be locked into OFF position • cccessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum attachable / maximum 2		
Auxillary circuit number of CO contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts operating voltage / of auxiliary contacts operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value suitability suitability for use • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product details product feature / can be locked into OFF position **Cocessories** product stension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum a the foreign of the foreign of the product of the prod		
number of CO contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts operating voltage / of auxiliary contacts operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value 500 V Suitability suitability suitability for use • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • safety switch • safety switch • maintenance/repair switch Product details product details product details product detail on the contacts / for auxiliary contacts / attachable / maximum • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum 1 attachable / maximum 2 hasp thickness / of the bracket locks Short circuit • attachable / maximum • at 440 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / by gG fuse / rated value 12 tvalue / with closed switch / at 440 V / for combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • at 690 V / br combination switch + gG fuse / maximum • 2.5 kA2.s		5.5 KW
number of NC contacts / for auxiliary contacts 0 number of NO contacts / for auxiliary contacts operating voltage / of auxiliary contacts / AC / maximum continuous current / of the auxiliary contact / AC / maximum continuous current / of the auxiliary switch / rated value suitability for use • main switch		
number of NO contacts / for auxiliary contacts operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value 500 V Suitability suitability for use • main switch • switch disconnector Yes • maintegnecy OFF switch Yes • safety switch • safety switch • safety switch • maintenance/repair switch Yes Product dotals product feature / can be locked into OFF position Yes accessories product extension / optional • motor drive • voltage trigger number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum a tag of the bracket locks • at 690 V / by gG fuse / rated value • at 440 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / by Gombination switch + gG fuse / maximum • at 690 V / by Gombination switch + gG fuse / maximum • at 690 V / by Gombination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • 20,5 kA2.s	•	
operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value Suttability suitability res safety switch yes Product detalis product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum suitability suitability suitability suitability suitability yes Product detalis product extension / optional • No No No No No oontacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum 2		
continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value Suitability suitability for use • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • safety switch • maintenance/repair switch • maintenance/repair switch • maintenance/repair switch • maintenance/repair switch Product details product deature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum 2 hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by GG fuse / rated value let-through current / with closed switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / by combination switch + gG fuse / maximum • at 690 V / by combination switch + gG fuse / maximum permissible L2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum germissible L2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum 2.5 kA2.s		
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 teature / can be locked into OFF position accossories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum 2 hasp thickness / of the bracket locks 4 6 mm Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 490 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • 25 kA2.s		
Suitability suitability for use • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch • maintenance/repair switch • safety switch • maintenance/repair switch • safety switch • maintenance/repair switch • maintenance/repair switch • maintenance/repair switch • maintenance/repair switch • yes Product details product details product esture / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of pracket locks / for auxiliary contacts / attachable / maximum number of pracket locks / maximum 2 hasp thickness / of the bracket locks 4 6 mm Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible 121 value / with closed switch / at 240 V / for combination switch + gG fuse / maximum permissible 121 value / with closed switch / at 240 V / for combination 121 value / with closed switch / at 240 V / for combination 122 value / with closed switch / at 240 V / for combination 122 value / with closed switch / at 240 V / for combination 122 value / with closed switch / at 240 V / for combination		
■ main switch ■ main switch ■ switch disconnector ■ EMERGENCY OFF switch ■ safety switch ■ maintenance/repair switch ■ maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional ■ motor drive ■ voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of bracket locks / for auxiliary contacts / attachable / maximum number of bracket locks / maximum 2 hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection ■ at 690 V / by gG fuse / rated value let-through current / with closed switch ■ at 240 V / for combination switch + gG fuse / maximum ■ at 440 V / for combination switch + gG fuse / maximum ■ at 690 V / for combination switch + gG fuse / maximum ■ at 690 V / for combination switch + gG fuse / maximum permissible 22 Value / with closed switch / at 240 V / for combination switch + gG fuse / maximum permissible 22 Value / with closed switch / at 240 V / for combination switch + gG fuse / maximum permissible 22 Value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 2.5 kA2.s	insulation voltage / of the auxiliary switch / rated value	500 V
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Yes maintenance/repair switch Yes maintenance/repair switch Yes Product details product feature / can be locked into OFF position accessories product extension / optional more of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / switch at 690 V / by gG fuse / rated value let-through current / with closed switch at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Izt value / with closed switch / at 440 V / for combination switch + gG fuse / maximum permissible Izt value / with closed switch / at 440 V / for combination switch / at 640 V / for combination switc	Suitability	
switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature / can be locked into OFF position **Recessories** product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / for auxiliary contacts / attachable / maximum number of tracket locks / maximum number of tracket locks / maximum 2 hasp thickness / of the bracket locks **Short circuit** conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combinati	suitability for use	
EMERGENCY OFF switch safety switch safety switch yes maintenance/repair switch Yes Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger No number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / for auxiliary contacts / attachable / maximum number of bracket locks / for auxiliary contacts / attachable / maximum number of bracket locks / for auxiliary contacts / attachable / maximum accessories No	main switch	
safety switch maintenance/repair switch Yes Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum number of bracket locks / maximum 2 hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum permissible let value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 2.5 kA2.s		Yes
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional		
Product details product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum 2 hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value 1et-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 490 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible 12t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 240 V / for combination 2.5 kA2.s		
product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum number of bracket locks / maximum 2 hasp thickness / of the bracket locks 3 has thickness / of the bracket locks 4 6 mm Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value 1et-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch / at 240 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 240 V / for combination 12t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch	Yes
product extension / optional	safety switchmaintenance/repair switch	Yes
product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum 2 hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible l2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum permissible l2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum upermissible l2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum l2t value / with closed switch / at 440 V / for combination switch / at 440 V / for combination 2.5 kA2.s	safety switchmaintenance/repair switch	Yes
motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum number of bracket locks / maximum 2 hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible l2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum l2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum l2t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position	Yes Yes
voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum number of bracket locks / maximum at sp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible l2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum l2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum l2t value / with closed switch / at 440 V / for combination 2	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position	Yes Yes
number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum 2 hasp thickness / of the bracket locks	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories	Yes Yes
number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / for auxiliary contacts / attachable / maximum number of bracket locks / maximum and	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes Yes Yes
number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum a hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection a t 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible 12t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 440 V / for combination 12t value / with closed switch / at 440 V / for combination 12t value / with closed switch / at 440 V / for combination 12t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive	Yes Yes Yes No
number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible I2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum	Yes Yes Yes No No
hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible 12t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 440 V / for combination 12t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts	Yes Yes Yes No No 2
Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible 12t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 440 V / for combination 12t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts	Yes Yes Yes No No 2 2
conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible 12t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 440 V / for combination 12t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum	Yes Yes No No No 2 2 0
protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible l2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum l2t value / with closed switch / at 440 V / for combination l2t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum	Yes Yes No No 2 2 2 2
let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible 12t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 440 V / for combination 12t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks	Yes Yes No No 2 2 2 2
 at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible I2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination I2t value / with closed switch / at 440 V / for combination 	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection	Yes Yes No No No 2 2 4 6 mm
maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible 12t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 440 V / for combination 12t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value	Yes Yes No No No 2 2 4 6 mm
maximum • at 690 V / for combination switch + gG fuse / maximum permissible 12t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum 12t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value let-through current / with closed switch	Yes Yes No No 2 2 2 4 6 mm
maximum permissible I2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum I2t value / with closed switch / at 440 V / for combination 2.5 kA2.s 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse /	Yes Yes No No 2 2 2 4 6 mm
switch + gG fuse / maximum 12t value / with closed switch / at 440 V / for combination 2.5 kA2.s	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse /	Yes Yes No No No 2 2 4 6 mm
	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse /	Yes Yes Yes No No No 2 2 2 4 6 mm
omon · go iaso / maximum	safety switch maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value let-through current / with closed switch at 240 V / for combination switch + gG fuse / maximum at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible 12t value / with closed switch / at 240 V / for combination	Yes Yes No No No 2 2 2 4 6 mm 50 kA 3 kA 3 kA

I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	3 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit / required	fuse gL/gG: 20 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	20 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	16 A
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value	600 V
active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value	7.5
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	10
short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	5 kA
continuous current / of upstream fuse / according to UL / rated value	50 A
type of fuse / according to UL	RK5
Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	10
• minimum	18
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16mm²)
finely stranded / with core end processing	1x (14mm²)
stranded	1x (16mm²)
type of connectable conductor cross-sections / for	
auxiliary contacts ● solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
• finely stranded / with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
type of electrical connection	
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	66 mm
width	49 mm
depth	89.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
• 4-hole front mounting	Yes
 front mounting with central attachment 	No
rail mounting	No
net weight	175 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature / during storage	
• minimum	-25 °C
maximum	55 °C
General Product Approval	



Confirmation







<u>Miscellaneous</u>

General Product Approval

Declaration of Conformity

Test Certificates

Marine / Shipping

other







Special Test Certificate



Environmental Confirmations

other

Miscellaneous

Further information

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2022-1TL13

 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3LD2022-1TL13

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2022-1TL13

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications











