SIEMENS

Data sheet 3LD5210-0TL13



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 4-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 60A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 40hp, IEC: 63A, Operating power at AC-23A at 400V: 30kW, floor mounting with door coupling rotary operating mechanism, defeatable, emergency switching-off, 4-hole mounting of the handle, without tolerance compensation, incl. terminal covers for the infeed side

product brand name product designation design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of he actuating element design of handle type of switch red design of handle type of the driving mechanism / motor drive design of handle type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A/ at 690 V operating frequency / maximum degree of pollution Voltago insulation voltage / rated value • at AC / rated value • at AC / rated value • maximum 50 Hz 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 Curront operational current / rated value • at 40 °C / rated value • at 40 °C / rated value • at 44 °C / rated value • at 45 °C / rated value	Model		
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 rotary operating mechanism, red/yellow 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) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating requency / rated value • at AC / rated value • minimum • maximum 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 Curront operational current / rated value • at 40 °C / rated value	product brand name	SENTRON	
display version / for switch position indicator manual operation type of switch type of switch design of the actuating element color / of the actuating element ted design of handle type of the driving mechanism / motor drive type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating frequency / rated value • at AC-23 A fated value • at AC / rated value • at AC / rated value • minimum • maximum 50 Hz degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value operational current / rated value • operational current / rated value	product designation	3LD UL switch disconnector	
operation type of switch design of the actuating element color / of the actuating element design of handle type of the driving mechanism / motor drive General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum for operating frequency / rated value operating voltage • at AC / rated value • minimum • maximum 50 Hz • maximum 50 Hz • maximum 50 Hz • maximum 50 Hz ferse of protection NEMA rating protection class IP operating state / per pole Current operational current / rated value operational current / rated value operating rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current operational	design of the product	EMERGENCY-STOP switch	
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color / of the actuating element design of handle type of the driving mechanism / motor drive No Ceneral technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switch	type of switch	Floor mounting with door coupling	
design of handle type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value • at AC / rated value • at AC / rated value operating frequency / rated value • at AC / rated value operating frequency / rated value • by the companion of the companion of the current / at AC / in hot operating state / per pole Current operating urrent • at 40 °C / rated value 63 A operations data rotary operating mechanism, red/yellow No No No Red 4 4 4 4 4 4 4 4 4 4 4 5 5	design of the actuating element	door-coupling rotary operating mechanism	
type of the driving mechanism / motor drive General technical data	color / of the actuating element	red	
General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum for the degree of pollution Voltage insulation voltage / rated value operating voltage resistance / rated value • at AC / rated value • at AC / rated value • minimum • maximum for He6 degree of protection NEMA rating protection class IP protection class IP / on the front 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	design of handle	rotary operating mechanism, red/yellow	
number of poles size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) • at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage • at AC / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 600 Hz Protection class protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 63 A operational current / rated value 63 A operational current • at 40 °C / rated value	type of the driving mechanism / motor drive	No	
size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage • at AC / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value • minimum 50 Hz • maximum 60 Hz Protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 63 A operational current • at 40 °C / rated value 63 A	General technical data		
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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 operating frequency / rated value frequency / rated value operation class IP protection class IP degree of protection NEMA rating protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current / rated value operational current	electrical endurance (switching cycles)		
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operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz 60 Hz Protection 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 690 V 690	insulation voltage / rated value	690 V	
• at AC / rated value operating frequency / rated value • minimum • maximum 60 Hz Protection 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 63 A	surge voltage resistance / rated value	6 kV	
operating frequency / rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP / on the front IP65 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 63 A	operating voltage		
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protection class IP degree of protection NEMA rating protection class IP / on the front IP65 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 IP65 7.5 W 7.5 W 63 A	• minimum	50 Hz	
protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value IP65 7.5 W 63 A	• maximum	60 Hz	
degree of protection NEMA rating 1, 3R, 4X, 12 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 operational current • at 40 °C / rated value 1, 3R, 4X, 12 7.5 W 7.5 W 63 A	Protection class		
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Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value 63 A	degree of protection NEMA rating	1, 3R, 4X, 12	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value 63 A	protection class IP / on the front	IP65	
hot operating state / per pole Current operational current / rated value 63 A operational current • at 40 °C / rated value 63 A	Dissipation		
operational current / rated value 63 A operational current • at 40 °C / rated value 63 A		7.5 W	
operational current • at 40 °C / rated value 63 A	Current		
• at 40 °C / rated value 63 A	operational current / rated value	63 A	
	operational current		
• at 45 °C / rated value 63 A	 at 40 °C / rated value 	63 A	
	 at 45 °C / rated value 	63 A	

• at 50 °C / rated value	63 A
• at 55 °C / rated value	63 A
at AC / rated value	63 A
Main circuit	
operational current	
at AC-21 / at 690 V / rated value	63 A
at AC-21 A / at 240 V / rated value	63 A
at AC-21 A / at 400 V / rated value	63 A
at AC-21 A / at 440 V / rated value	63 A
at AC-23 A / at 400 V / rated value	63 A
operating power	
at AC-23 A / at 240 V / rated value	18.5 kW
at AC-23 A / at 400 V / rated value	30 kW
at AC-23 A / at 440 V / rated value	30 kW
at AC-23 A / at 690 V / rated value	37 kW
at AC-3 / at 240 V / rated value	18.5 kW
at AC-3 / at 400 V / rated value	30 kW
• at AC-3 / at 690 V / rated value	30 kW
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
operating voltage / of auxiliary contacts / at AC / maximum	500 V
continuous current / of the auxiliary contact / rated value	10 A
insulation voltage / of the auxiliary switch / rated value	500 V
Suitability	
suitability for use	
main switch	Yes
 switch disconnector 	Yes
 EMERGENCY OFF switch 	Yes
safety switch	Yes
safety switchmaintenance/repair switch	Yes Yes
maintenance/repair switch	
maintenance/repair switch Product details	Yes
maintenance/repair switch Product details special product feature	Yes defeatable door-coupling handle
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position	Yes defeatable door-coupling handle
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories	Yes defeatable door-coupling handle
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes defeatable door-coupling handle Yes
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional motor drive	Yes defeatable door-coupling handle Yes No
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger number of connectable NC contacts / for auxiliary contacts	Yes defeatable door-coupling handle Yes No No
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes defeatable door-coupling handle Yes No No 2
maintenance/repair switch Product details special product feature 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 defeatable door-coupling handle Yes No No 2
maintenance/repair switch Product details special product feature 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 defeatable door-coupling handle Yes No No 2 3 0
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes defeatable door-coupling handle Yes No No 0 1
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes defeatable door-coupling handle Yes No No 0 1
maintenance/repair switch Product details special product feature 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	Yes defeatable door-coupling handle Yes No No 0 1
maintenance/repair switch Product details special product feature 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 defeatable door-coupling handle Yes No No 2 3 0 1 4 6 mm
maintenance/repair switch Product details special product feature 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 440 V / by gG fuse / rated value	Yes defeatable door-coupling handle Yes No No 2 3 0 1 4 6 mm
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes defeatable door-coupling handle Yes No No 2 3 0 1 4 6 mm
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes defeatable door-coupling handle Yes No No 2 3 0 1 4 6 mm
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes defeatable door-coupling handle Yes No No 2 3 0 1 4 6 mm
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes defeatable door-coupling handle Yes No No No 2 3 0 1 4 6 mm
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes defeatable door-coupling handle Yes No No No 2 3 0 1 4 6 mm

movimum		
maximum	30 kA2.s	
 at 440 V / for combination switch + gG fuse / maximum 	30 NA2.5	
 at 690 V / for combination switch + gG fuse / maximum 	24 kA2.s	
design of the fuse link		
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 63 A	
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A	
operational current / of upstream fuse / rated value	63 A	
according UL		
operational current / at AC / according to UL 489/UL 60947-4-1 / rated value	60 A	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	60 A	
operating voltage / at AC / at 50/60 Hz / according to UL 489 / rated value	480 V	
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value	480 V	
active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value	30	
short-time withstand current (SCCR) / at 480 V / according to UL 508/UL 60947-4-1 and UL 489	50 kA	
continuous current / of upstream fuse / according to UL / rated value	60 A	
type of fuse / according to UL	Class J	
Connections		
AWG number / as coded connectable conductor cross section / solid		
• maximum	1	
MVC number / so coded connectable conductor cross	12	
AWG number / as coded connectable conductor cross section / solid / according to UL 489 • minimum	12	
• maximum	1	
AWG number / as coded connectable conductor cross section / solid / according to CSA C22.2 No. 5-16	'	
• minimum	10	
• maximum	4	
type of connectable conductor cross-sections / for copper conductor		
• solid	1x (450mm²)	
finely stranded / with core end processing stranded	1x (435mm²)	
stranded type of connectable conductor cross-sections / for	1x (450mm²)	
auxiliary contacts		
• solid	lateral auxiliary switch 2x (0,75 \dots 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 \dots 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	106 mm	
width	96 mm	
depth type of device	408 mm	
type of device	fixed mounting Ruilt in unit fixed mounted version	
fastening method fastening method	Built-in unit fixed-mounted version	
4-hole front mounting	Yes	

 front mounting with central attachment 	No	
rail mounting	Yes	
net weight	800 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		Declaration of Conformity



Confirmation









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=3LD5210-0TL13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5210-0TL13

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

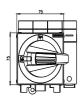
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5210-0TL13

CAx-Online-Generator

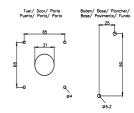
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









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