SIEMENS

Data sheet 3LD5210-0TL11



SENTRON, Molded case switch 3LD5 UL, Main switch, 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, Standard, 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 door-coupling rotary operating mechanism color / of the actuating element design of handle design of handle type of switch design of handle 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) at AC-23 A / at 680 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value operating voltage at AC / rated value inminimum omaximum omaximum omaximum fool tz Protection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation Dissipation operating slate / per pole Current at 40 °C / rated value operational current / rated value	Model		
design of the product display version / for switch position indicator manual operation type of switch design of the actuating element door-coupling rotary operating mechanism color / of the actuating element design of the actuating element design of handle rotary operating mechanism / black type of the driving mechanism / motor drive No General technical data number of poles 4 size of switch disconnector 2 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum 50 1/h degree of pollution Voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum • maximum 60 Hz Protection class IP of rated value of the current / at AC / in hot operating state / per pole Current • at 40 °C / rated value operational current / rated value operational current / rated value operational current / rated value	product brand name	SENTRON	
display version / for switch position indicator manual operation type of switch design of the actuating element color / of the actuating element design of the actuating element design of handle type of the driving mechanism / motor drive type of the driving mechanism / motor drive No Ceneral technical data number of poles size of switch disconnector electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / 6000 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 • at AC / rated value • minimum • maximum 50 Hz protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operational current / rated value • ot at 40 °C / rated value • at 40 °C / rated value • at 40 °C / 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 Ceneral technical data number of poles size of switch disconnector electrical endurance (switching cycles) / et at AC-23 A I at 690 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value operating voltage e at AC / rated value e minimum e minimum e minimum e maximum e for HP65 degree of protection NEMA rating protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation Operating rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current / rated value operating state / per pole Current operational current / rated value	design of the product	Main switch	
design of the actuating element black color / of the actuating element black design of handle type of the driving mechanism / motor drive No General technical data number of poles 4 size of switch disconnector 2 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / • at AC-23 A / at 690 V 6000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V operating voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating to operating frequency / rated value 690 V operating frequency / rated value 700 Potention frequency / rated value 700 Pot	. ,	1 ON - 0 OFF	
color / of the actuating element design of handle type of the driving mechanism / motor drive Ceneral technical data number of poles size of switch disconnector 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 frequency / rated value • at AC / rated value • at AC / rated value • minimum 50 Hz • ob Hz • maximum 50 Hz fold Hz Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation 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 • 63 A	type of switch	Floor mounting with door coupling	
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 (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 • at AC / rated value • at AC / rated value • be operating frequency / rated value • at AC / rated value • porection class IP degree of protection NEMA rating protection class IP / on the front Dissipation Dissipation power loss IWJ / 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 the actuating element	door-coupling rotary operating mechanism	
type of the driving mechanism / motor drive General technical data	color / of the actuating element	black	
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 3 Voltage insulation voltage / rated value operating voltage resistance / rated value • at AC / rated value • at AC / 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 • at 40 °C / rated value 63 A operational current / rated value 63 A	design of handle	rotary operating mechanism, black	
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 7 objection voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum foo 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 Current operational current / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • 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 operating frequency / maximum for the degree of pollution voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum for Hz • maximum for 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 Current • at 40 °C / rated value 63 A operational current • at 40 °C / rated value 63 A	General technical data		
mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • 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 Current operational current / rated value 63 A operational current • at 40 °C / rated value 64 600 6 0	number of poles	4	
electrical endurance (switching cycles) • at AC-23 A / at 690 V 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 • minimum • maximum 50 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 63 A operational current • at 40 °C / rated value 63 A	size of switch disconnector	2	
at AC-23 A / at 690 V 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 operating frequency / rated value ominimum o	mechanical service life (switching cycles) / typical	100 000	
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 indigital 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)		
degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value ominimum ominimu	• at AC-23 A / at 690 V	6 000	
insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage • at AC / rated value 690 V operating frequency / rated value • minimum 50 Hz • maximum 60 Hz Protection class protection class IP IP65 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	operating frequency / maximum	50 1/h	
insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage • at AC / 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	degree of pollution	3	
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum	Voltage		
operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz 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 690 V 690	insulation voltage / rated value	690 V	
at AC / rated value operating frequency / rated value minimum maximum for 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 6	surge voltage resistance / rated value	6 kV	
operating frequency / rated value	operating voltage		
 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 63 A operational current at 40 °C / rated value 63 A 	at AC / rated value	690 V	
● maximum 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 operational current ● at 40 °C / rated value 60 Hz IP65 A	operating frequency / rated value		
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	• 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	maximum	60 Hz	
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 1, 3R, 4X, 12 IP65 7.5 W 7.5 W 63 A	Protection class		
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 IP65 7.5 W 63 A	protection class IP	IP65	
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	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 	No	
 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 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 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 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 at 690 V / for combination switch + gG fuse / maximum permissible	Yes defeatable door-coupling handle Yes No No No 2 3 0 1 4 6 mm	

maximum		
• at 440 V / for combination switch + gG fuse /	30 kA2.s	
maximum • at 690 V / for combination switch + gG fuse /	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	
MwG number / as coded connectable conductor cross section / solid / according to UL 489	12	
• 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 finally atransfed / with core and processing	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 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	400	
height	106 mm	
width	96 mm	
depth type of device	408 mm	
type of device fastening method	fixed mounting Built-in unit fixed-mounted version	
fastening method	Dant in unit incommodition 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



EAC





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=3LD5210-0TL11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5210-0TL11

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

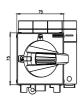
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5210-0TL11

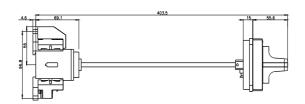
CAx-Online-Generator

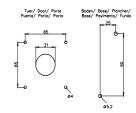
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









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