SIEMENS

Data sheet

3LD3130-0TL11



Load disconnector 3LD3, lu 25 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 9.0kW Installation in distribution boards, Basic switch with selector knob black

product brand name SENTRON product designation 3LD Switch disconnector design of the product Main switch display version / for switch position indicator manual operation 10N - 0 OFF type of switch DIN-rail mounting design of the actuating element black number of poles 4 number of poles / note 4 number of poles / note 4 number of poles / note 50 17h degree of pollution 3 Voltage fisulation voltage / rated value operating frequency / maximum 60 V operating frequency / rated value 60 V <	Model			
design of the product Main switch display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch DIN-rail mounting design of the actuating element selector switch color / of the actuating element black design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No Ceneral technical data number of poles number of poles / note 4 number of poles / note 4 number of poles / note 4 electrical endurance (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 6 800 V surge voltage resistance / rated value 6 800 V operating trougency / rated value 6 kV operating voltage 6 90 V e at AC / rated value 690 V operating voltage 50 Hz e maximum 50 Hz protection class IP IP40 protection class IP / on the front IP40 Dissipation 1.1 W Dissipation 25 A operationg value 25 A e	product brand name	SENTRON		
display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch DIN-rail mounting design of the actuating element black design of handle knot-operated mechanism, black type of switch No operation No General technical data number of poles / note number of poles / note 4 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 100 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 680 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 60 Hz operating frequency / rated value 60 Hz operating trequency / rated value 60 Hz operating state / per pole IP40 ptotection class IP / on the front IP40 ptospation 1.1 W opera	product designation	3LD Switch disconnector		
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color / of the actuating element black design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No General technical data Inumber of poles / note number of poles / note 4 number of poles / note 4 nechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating rotical sa 690 V operating rotical sa 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 11 operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 11 operating frequency / rated value 11 operational current / ated value	type of switch	DIN-rail mounting		
design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No General technical data	design of the actuating element	selector switch		
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number of poles / note 4 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 • at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 64V operating frequency / rated value 690 V operating frequency / rated value 60 Hz Protection class IP IP40 protection class IP / on the front IP40 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W operational current • at 40 °C / rated value 25 A operational current • at 40 °C / rated value 25 A operational current 25 A	General technical data			
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operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 60 Hz Protection class IP40 protection class IP IP40 protection class IP / on the front IP40 Dissipation IP40 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W operational current / rated value 25 A operational current 25 A operational current 25 A • at 40 °C / rated value 25 A <td>electrical endurance (switching cycles)</td> <td></td>	electrical endurance (switching cycles)			
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insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class 1040 protection class IP IP40 protection class IP / on the front IP40 Dissipation 1.1 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W operational current 25 A • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A	degree of pollution	3		
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• at AC / rated value 690 V operating frequency / rated value 50 Hz • minimum 60 Hz • maximum 60 Hz Protection class 1P40 protection class IP / on the front IP40 Dissipation IP40 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Operational current / rated value 25 A operational current 44 0 °C / rated value • at 45 °C / rated value 25 A	surge voltage resistance / rated value	6 kV		
operating frequency / rated value 50 Hz • maximum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP IP40 protection class IP / on the front IP40 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.1 W Current 25 A operational current / rated value 25 A operational current 25 A operational current 25 A operational current 25 A	operating voltage			
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power loss [W] / for rated value of the current / at AC / in 1.1 W hot operating state / per pole 1.1 W Current 25 A operational current / rated value 25 A operational current 25 A • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A	protection class IP / on the front	IP40		
hot operating state / per pole Current operational current / rated value 25 A operational current 25 A • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A	Dissipation			
operational current / rated value25 Aoperational current		1.1 W		
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 at 40 °C / rated value at 45 °C / rated value 25 A 25 A 	operational current / rated value	25 A		
• at 45 °C / rated value 25 A	operational current			
	 at 40 °C / rated value 	25 A		
• at 50 °C / rated value 25 A	• at 45 °C / rated value	25 A		
	• at 50 °C / rated value	25 A		

a at 55 °C / rated value	25 A
 at 55 °C / rated value at AC / rated value 	25 A 25 A
• at AC / rated value Main circuit	23 R
operational current	
at AC-21 / at 690 V / rated value	25 A
• at AC-21 A / at 240 V / rated value	25 A
• at AC-21 A / at 400 V / rated value	25 A
• at AC-21 A / at 440 V / rated value	25 A
• at AC-23 A / at 400 V / rated value	20 A
operating power	2017
• at AC-23 A / at 240 V / rated value	4 kW
• at AC-23 A / at 400 V / rated value	10 kW
• at AC-23 A / at 440 V / rated value	9 kW
 at AC-23 A / at 690 V / rated value 	9 kW
 at AC-3 / at 240 V / rated value 	4 kW
 at AC-3 / at 400 V / rated value 	8 kW
 at AC-3 / at 690 V / rated value 	7.5 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
maintenance/repair switch	Yes
Product details	
special product feature	Can be locked in zero position
product feature / can be locked into OFF position	Yes
accessories	
product extension / optional	
motor drive	No
voltage trigger	No
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
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 440 V / by gG fuse / rated value 	10 kA
• at 690 V / by gG fuse / rated value	6 kA
let-through current / with closed switch	
 at 240 V / for combination switch + gG fuse / maximum 	3.5 kA
 at 440 V / for combination switch + gG fuse / 	
maximum	3.5 kA
	3.5 kA 4 kA
 maximum at 690 V / for combination switch + gG fuse / 	

maximum 4 kA2.s ediagn of the fuse link fuse gLigC: 25 A in or short-circuit protection of the main circuit / required fuse gLigC: 25 A in or short-circuit protection of the auxiliary switch / required 25 A operational current / rd upstream fuse / rated value 25 A operational current / rd upstream fuse / rated value 25 A operational current / rd A2 raccording to UL 600 V obs011. 60/27 A / rated value 600 V operational current / rd A2 raccording to UL 600 V obs011. 60/27 A / rated value 600 V operating values / at A2 / raccording to UL 600 V obs011. 60/27 A / raced value 600 V operating values / racecording to UL 700 A operating values / racecord ing to UL 700 A <th>• at 440 V / for combination switch + gG fuse /</th> <th>4 kA2.s</th> <th></th>	• at 440 V / for combination switch + gG fuse /	4 kA2.s			
maximum issue 4 design of the fixe link: fuse gL/gG: 25 A • for short-circuit protection of the auxiliary switch / required fuse gL/gG: 25 A • for short-circuit protection of the auxiliary switch / required 25 A • dor short-circuit protection of the auxiliary switch / required 25 A • dors short-circuit protection of the auxiliary switch / required 25 A • dors short-circuit protection of the auxiliary switch / required 25 A • dors short-circuit protection of the auxiliary switch / required 25 A • dors short-circuit protection of the auxiliary switch / required 25 A • dors short-circuit protection of the auxiliary switch / required 25 A • dors short-circuit protection of the auxiliary switch / required 26 A • dors short-circuit protection of the auxiliary switch / required 26 A • dors short-circuit protection of the auxiliary switch / required 26 A • dors short-circuit protection of the auxiliary switch / required 26 A • dors short-circuit protection of the auxiliary switch / required 10 • dors short-circuit protection of the auxiliary switch / required 5 A • dors short-circuit protection of the auxiliary switch / required 5 A					
• for short-circuit protection of the main circuit/ required fuse gUrg6: 25 A • for short-circuit protection of the auxiliary switch / required fuse gUrg6: 10 A • gerational current / of upstream tuse / rated value 25 A • coording UL 25 A • operational current / of upstream tuse / rated value 25 A • operation during / alx O/ according to UL 600 V • operating values / alx O/ according to UL 600 V • operating values / alx O/ according to UL 600 V • operating values / alx O/ according to UL 600 V • operating values / alx O/ according to UL 5 A • operating values / alx O/ according to UL 10 • operating values / alx O/ according to UL 5 A • operating values / alx O/ according to UL 5 A • operating values / according to UL 70 A • operating values / according to UL 70 A • operating values / according to UL 70 A • operating values / according to UL 70 A • operating values / according to UL 70 A • operating values / according to UL 70 A • operating values / according to UL 70 A • operating values / according to UL 70 A • operating values / according to UL 70 A • operating values / according to UL 70 A		4 kA2.s			
regured for shrb-circuit protection of the auxiliary switch / required tisse gL/gG: 10 A operational current / of upstream fuse / rated value 25 A operational current / at AC / according to UL 508/UL 25 A operational current / at AC / according to UL 508/UL 25 A operational current / at AC / according to UL 508/UL 26 A obstut. 508/r - 1 / rated value 600 V operating voltage / at AC / according to UL 10 attive power [hp] / at AC / at 600 V / according to UL 15 obstut. 508/r - 1 / rated value 50 A off tisse / according to UL 70 continuous current / of upstream fuse / according to UL / ac	design of the fuse link				
required 25 A secording UL 25 A operational current / at AC / according to UL 500 V obsULP_6047-41 / tradet value 600 V operational current / at AC / at 5000 Hz / according to UL 600 V obsULP_6047-41 / tradet value 600 V active power [hp] / at AC / at 480 V / according to UL 600 V obsULP_6047-41 / tradet value 10 active power [hp] / at AC / at 480 V / according to UL 50 A obsULP_6047-41 / tradet value 5 kA continuous current / of upstream fuse / according to UL 50 A operational current / so code connectable conductor cross-section / for copper conductor 6 extint 14 type of townectable conductor cross-sections / for copper conductor 14 (25 to 16 mm²) extid 14 (25 to 16 mm²) standed 14 (25 to 16 mm²) type of connectable conductor cross-sections / for auxillary contacts <td></td> <td>fuse gL/gG: 25 A</td> <td></td>		fuse gL/gG: 25 A			
secording UL 25 A operational current / at AC / according to UL 508/UL 25 A obs/UL 803-r1 / rated value 600 V active power [hp] / st AC / at 500 V / according to UL 600 V active power [hp] / st AC / at 600 V / according to UL 500 V active power [hp] / st AC / at 600 V / according to UL 500 V active power [hp] / st AC / at 600 V / according to UL 500 A astive power [hp] / st AC / at 600 V / according to UL 500 A operations 5kA continuous current / opstream fuse / according to UL / at 600 V / accord		fuse gL/gG: 10 A			
operational current / at AC / according to UL. 508/UL. 26 A operating voltage / at AC / at S000 Hz / according to UL. 600 V solter power (hp) / At AC / at 480 V / according to UL. 10 active power (hp) / at AC / at 480 V / according to UL. 15 Solvul. 609/Y-41 / rated volue 5 KA confinuous current / of upsteam fuse / according to UL. 50 A operating voltage / at AC / at 600 V / according to UL. 15 Solvul. 609/Y-41 / rated volue 5 KA confinuous current / of upsteam fuse / according to UL. 70 A rated value 50 A type of fuse / according to UL. RK5 Connectable conductor cross-sections / for cooper 50 A examum 6 • maximum 6 • maximum 14 type of fuse / according to user and processing 1x (2.5 to 16 mm²) • stranded 1x (2.5 to 16 mm²) • solid 2x (0.75 2.5 mm²), 1x 4 mm² • solid 2x (0.75 2.5 mm²), 1x 4 mm² • solid 2x (0.75 2.5 mm²), 1x 4 mm² • solid 2x (0.75 2.5 mm²), 1x 4 mm² • solid	operational current / of upstream fuse / rated value	25 A			
bb947-4-1 / rated value 600 V gorarding volues / at AC / at 5000 Hz / according to UL 600 V S08UL 60947-4-1 / rated value 10 solue power hpl / at AC / at 480 V / according to UL 15 S08UL 60947-4-1 / rated value 15 short time withstand coment (SCCR) / at 600 V / according to UL 5 kA continuous current / of upstream fuse / according to UL 5 kA continuous current / of upstream fuse / according to UL 7 kS Connectable 7 kS AWG number / as coded connectable conductor cross sections / for copper conductor 6 k • maximum 6 k • maximum 6 k • finely stranded / with core end processing 1x (2.5 to 16 mm²) • stranded 1x (2.5 to 16 mm²) • solid 1x (2.5 to 16 mm²) • finely stranded / with core end processing 1x (2.5 to 16 mm²) • finely stranded / with core end processing 1x (2.5 to 16 mm²) • finely stranded 2x (0.75 2.5 mm²), 1x 4 mm² • finely stranded 2x (0.75 2.5 mm²), 1x 4 mm² • for axiliary contacts box terminal • for axiliary contacts box terminal • for axiliary contacts box terminal • for deciceal connection for axiliary contacts • for main current cincuit bo	according UL				
505UL 60947-4-1 / rated value 10 Solve power phyl 7 AK / rated value 10 Solve power phyl 7 AK / rated value 15 Solve power phyl 7 AK / rated value 5 KA io UL 508UL 60947-4-1 / rated value 5 KA continuous current / of upstream fuse / according to UL 50 A rated value 50 A rated value 6 • maximum 6 • maximum 6 • maximum 6 • maximum 6 • finely standed / with core end processing 1x (2.5 to 16 mm²) • standed 1x (2.5 to 16 mm²) • finely standed / with core end processing 1x (2.5 to 16 mm²) • finely standed / with core end processing 2x (0.75 2.5 mm²), 1x 4 mm² • for auxiliary contacts 2x (0.75 2.5 mm²), 1x 4 mm² • for auxiliary contacts Box terminals Mochanical Design 77 mm • for auxiliary contacts Box terminals Method 97 mm • for auxiliary contacts Box terminals Mochanical Design No • fort mounting Ype of device fastering met		25 A			
508/UL 60947-4-1 / rated value 15 softer power [m] / at K / at 600 V / according to UL 58 KA soft-line withband current (SCCR) / at 600 V / according to UL / Contractions 5 KA Continuous current / of upstream fuse / according to UL / RK5 50 A Connectable 6 • maximum 6 • maximum 6 • maximum 14 • they standed / with core end processing 1x (2.5 to 16 mm²) • solid 1x (2.5 to 16 mm²) • finely standed / with core end processing 1x (2.5 to 16 mm²) • solid 1x (2.5 to 16 mm²) • finely standed / with core end processing 1x (2.5 to 16 mm²) • solid 1x (2.5 to 16 mm²) • solid 2x (0.75 2.5 mm²), 1x 4 mm² • solid 2x (0.75 2.5 mm²), 1x 4 mm² • finely standed / with core end processing 2x (0.75 2.5 mm²), 1x 4 mm² • finely standed 2x (0.75 2.5 mm²), 1x 4 mm² • for auxiliary contacts Box terminal • for auxiliary co		600 V			
508/UL 60947-41 / rated value 5 kA short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-41. 5 kA continuous current / of upstream fuse / according to UL / rated value 50 A Type of fuse / according to UL 70 A AWG number / as coded connectable conductor cross section / solid 6 • maximum 6 • maximum 6 • maximum 14 Ype of concatable conductor cross-sections / for copper conductor 1x (2.5 to 16 mm²) • solid 1x (2.5 to 16 mm²) • finely stranded / with core end processing 1x (2.5 to 16 mm²) • stranded 2x (0.75 2.5 mm²), 1x 4 mm² • stranded 2x (0.75 2.5 mm²), 1x 4 mm² • finely stranded / with core end processing 2x (0.75 2.5 mm²), 1x 4 mm² • finely stranded / with core end processing 2x (0.75 2.5 mm²), 1x 4 mm² • for auxiliary contacts Box terminal • for auxiliary contacts <td>active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value</td> <td>10</td> <td></td>	active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value	10			
to UL 508/UL 60947-4-1 50 A continuous current / of upstream fuse / according to UL / 50 A type of fuse / according to UL RK5 Connections 6 • maximum 6 • maximum 14 type of connectable conductor cross-sections / for copper conductor 1x (2.5 to 16 mm ²) • solid 1x (2.5 to 16 mm ²) • finely stranded / with core end processing 1x (2.5 to 16 mm ²) • stranded 1x (2.5 to 16 mm ²) • stranded 1x (2.5 to 16 mm ²) • stranded 1x (2.5 to 16 mm ²) • finely stranded / with core end processing 2x (0.75 2.5 mm ²), 1x 4 mm ² • stranded 2x (0.75 2.5 mm ²), 1x 4 mm ² • finely stranded / with core end processing 2x (0.75 2.5 mm ²), 1x 4 mm ² • finely stranded / with core end processing 2x (0.75 2.5 mm ²), 1x 4 mm ² • for auxiliary contacts Box terminal • for auxiliary contacts Box terminal • for auxiliary contacts Box terminals Mechanical Design Fixed mounting height 77 mm type of device fixed mounting fastening m		15	15		
rated value RK5 Connactions RK5 AWC number / as coded connectable conductor cross section / sold 6 • maximum 6 • minimum 14 Type of connectable conductor cross-sections / for copper 1x (2.5 to 16 mm²) • stranded 2x (0.75 2.5 mm²), 1x 4 mm² • stranded 2x (0.75 2.5 mm²), 1x 4 mm² • for auxiliary contacts Box terminal • for auxiliary contacts Box terminal • for auxiliary contacts Box terminals Mechanical Design 60 mm • width 49 mm • dehole front mounting No		5 kA			
Connections AWG number / as coded connectable conductor cross section / solid • maximum • ininimum Type of connectable conductor cross-sections / for copper conductor • solid • finely stranded / with core end processing • stranded type of connectable conductor cross-sections / for auxiliary contacts • solid • solid • inely stranded / with core end processing • solid • finely stranded / with core end processing • solid • finely stranded • solid • for main current circuit • for main current circuit • for auxilary contacts Mechanical Design height 60 mm width 49 mm depth 77 mm type of device fixed mounting fastening method Buil-in unit fixed-mounted version fastening method 200 g entowing 65 °C ambient temperature / during operation -25 °C • maximum 55 °C		50 A			
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UK CA

other

Miscellaneous

Further information

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