SIEMENS

Data sheet

3LD3310-1TL05

Switch disconnector 3LD3, main switch 3-polig + N, lu 40A operational switch at AC-23 A at 400 V 15,0 kW Distribution board mounting Base mounting with knob-operated mechanism with auxiliary 1NO+1NC



Model	
Product brand name	SENTRON
Product designation	3LD Switch disconnector
Design of the product	Switch
Display version / for switch position indicator manual operation	1 ON - 0 OFF
Design of handle	without
General technical data	
Number of poles	4
Type of device	fixed mounting
Type of switch	DIN-rail mounting
Operating frequency / maximum	50 1/h
Voltage	
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	6 kV
Protection class	
Protection class IP	IP20
Protection class IP / on the front	IP20

Power loss [W] for rated value of the current / at AC / in hot operating state / per pole 2.5 W Electricity Current / at AC / rated value 40 A Continuous current / rated value 40 A Short-time current rated value 1000 A 1000 V Acc33 (at 400 V / rated value 115 kW at AC / at 5000 V / rated value 115 kW Ac / at 20 irol Hz / rated value 100 V Auxiliary circuit Operating voltage / of auxiliary contact / rated 600 V Auxiliary circuit Operating voltage / of auxiliary contact / rated 10 A auxiliary switch / rated Soltability for use Soltability for use	Dissipation	
operating state / per pole 40 A Current / at AC / rated value 40 A Continuous current / rated value 40 A Short-tine current resistance (low) / at 690 V / limited 1000 A b 1 s / rated value 1000 A Main circuit 00 A Operating frequency 60 Hz • initial value 60 Hz Operating power 60 Hz • at AC-23 A / at 690 V / rated value 11.5 kW • at AC-33 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC / at 50/60 Hz / rated value 690 V Auxilary circut 500 V Operating policy of auxiliary contacts / at AC / at 600 V 500 V Auxilary circut 500 V Operating value 10 A Insulation voltage / of auxiliary contact / rated value 500 V Suitability for use 500 V • Main switch Yes • Switability for use Yes • Main switch Yes • asiety switch		
Electricity 40 A Current / at AC / rated value 40 A Continuous current / rated value 40 A Short-time current resistance (low) / at 690 V / limited 1000 A 1 1 000 A 1000 A Main circuit Operating frequency • initial value 60 Hz Operating frequency 60 Hz • Tul-scale value 60 Hz Operating power 115 kW • at AC-33 / at 400 V / rated value 115 kW • at AC-3 / at 690 V / rated value 115 kW • at AC-3 / at 690 V / rated value 115 kW • at AC-3 / at 690 V / rated value 115 kW • at AC-3 / at 690 V / rated value 115 kW • at AC-3 / at 690 V / rated value 690 V Auxiliary circuit 500 V Operating voltage 690 V Auxiliary circuit 500 V Operating voltage / of auxiliary contact / rated value 690 V Auxiliary circuit 500 V Operating voltage / of the auxiliary contact / rated value 500 V suitability Suitability for use • Main switch Yes • switch disconnector Yes • safety switch Yes • mainenance/repair switch Yes • mainenance/repair sw	 for rated value of the current / at AC / in hot 	2.5 W
Current / at AC / rated value 40 A Continuous current / rated value 40 A Short-line current resistance (icw) / at 690 V / limited to 1 s / rated value 1000 A Main circuit 1000 A Operating frequency 1000 A • initial value 50 Hz • Full-scale value 60 Hz Operating power • at AC-23 A / at 400 V / rated value • at AC-33 / at 400 V / rated value 15 kW • at AC-3 / at 400 V / rated value 15 kW • at AC-3 / at 400 V / rated value 15 kW • at AC-3 / at 400 V / rated value 11.5 kW • at AC-3 / at 400 V / rated value 11.5 kW • at AC-3 / at 400 V / rated value 11.5 kW • at AC / at 50/60 Hz / rated value 690 V Auxiliary circuit 500 V Operating voltage / of auxiliary contacts / at AC / at 50/60 Hz / rated value 500 V Auxiliary circuit 500 V Outinuous current / of the auxiliary contact / rated value 500 V Value Suitability Suitability for use Yes • Main switch Yes • switch disconnector Yes • safety switch Yes • maintenance/repair switch Yes • motor drive No • Notage t	operating state / per pole	
Current / at AC / rated value 40 A Continuous current / rated value 40 A Short-line current resistance (icw) / at 690 V / limited to 1 s / rated value 1000 A Main circuit 1000 A Operating frequency 1000 A • initial value 50 Hz • Full-scale value 60 Hz Operating power • at AC-23 A / at 400 V / rated value • at AC-33 / at 400 V / rated value 15 kW • at AC-3 / at 400 V / rated value 15 kW • at AC-3 / at 400 V / rated value 15 kW • at AC-3 / at 400 V / rated value 11.5 kW • at AC-3 / at 400 V / rated value 11.5 kW • at AC-3 / at 400 V / rated value 11.5 kW • at AC / at 50/60 Hz / rated value 690 V Auxiliary circuit 500 V Operating voltage / of auxiliary contacts / at AC / at 50/60 Hz / rated value 500 V Auxiliary circuit 500 V Outinuous current / of the auxiliary contact / rated value 500 V Value Suitability Suitability for use Yes • Main switch Yes • switch disconnector Yes • safety switch Yes • maintenance/repair switch Yes • motor drive No • Notage t	Electricity	
Short-time current resistance (low) / at 690 V / limited to 1 s / rated value 1 000 A Main circuit Coperating frequency initial value 60 Hz 60 Hz 60 Hz Operating power - at AC-23 A / at 400 V / rated value 18.5 kW at AC-33 / at 600 V / rated value at AC-3 / at 600 V / rated value at AC-3 / at 600 V / rated value at AC-3 / at 600 V / rated value at AC-3 / at 600 V / rated value at AC-3 / at 600 V / rated value 600 V Operating voltage / of auxiliary contacts / at AC / maximum 500 V Operating voltage / of the auxiliary contact / rated value 10 A value 10 A Insulation voltage / of the auxiliary contact / rated value 500 V Value 10 A Value Yes solitability for use which disconnector Ves safety switch value Yes maintenance/repair switch Yes maintenance/repair switch Yes motor drive No Yoltage trigger No Yoltage trigger		40 A
to 1 s / rated value Main Circuit Operating frequency 50 Hz • initial value 50 Hz • Full-scale value 60 Hz Operating power 18.5 kW • at AC-23 A / at 00 V / rated value 18.5 kW • at AC-23 A / at 690 V / rated value 15 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC / at 50/60 Hz / rated value 690 V • at AC / at 50/60 Hz / rated value 690 V Operating voltage 690 V • at AC / at 50/60 Hz / rated value 690 V Operating voltage / of auxiliary contacts / at AC / maximum 500 V Continuous current / of the auxiliary switch / rated value 10 A value 10 A Suitability 500 V Suitability for use 500 V • Main switch 7es • switch disconnector Yes • switch disconnector Yes • safety switch Yes • maintenance/repair switch Yes • maintenance/repair switch Yes Product feature / interlock Y	Continuous current / rated value	40 A
Main circuit Operating frequency 50 Hz • Full-scale value 60 Hz Operating power • at AC-23 A / at 400 V / rated value 18.5 kW • at AC-23 A / at 690 V / rated value 15 kW • at AC-37 at 400 V / rated value 15 kW • at AC-37 at 400 V / rated value 15 kW • at AC-37 at 690 V / rated value 11.5 kW • at AC-37 at 690 V / rated value 11.5 kW • at AC-37 at 690 V / rated value 690 V Auxiliary circuit 690 V Operating voltage 690 V • at AC / at 50/60 Hz / rated value 690 V Auxiliary circuit 500 V Operating voltage / of auxiliary contact / rated value 10 A value 500 V Suitability for use 500 V • Main switch Yes • Switch disconnector Yes • Switch disconnector Yes • Safety switch Yes • maintenance/repair switch Yes • root rdrive No • wolor disc trigger No Product feature / interlock Yes Product f	Short-time current resistance (Icw) / at 690 V / limited	1 000 A
Operating frequency 50 Hz • initial value 50 Hz • Full-scale value 60 Hz Operating power 18.5 kW • at AC-23 A / at 690 V / rated value 18.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-4 to 50/60 Hz / rated value 690 V Auxiliary circuit 500 V Operating voltage / of auxiliary contacts / at AC / maximum 500 V Continuous current / of the auxiliary sontact / rated value 10 A value 500 V Insulation voltage / of the auxiliary switch / rated value 500 V Suitability 500 V Suitability for use 500 V • Main switch Yes • Saifely switch Yes • EMERGENCY OFF switch Yes • safety switch Yes • maintenance/repair switch Yes Product details No Product details No • voltage trigger No • voltage trigger No	to 1 s / rated value	
 initial value 50 Hz 60 Hz Operating power at AC-23 A / at 400 V / rated value 18.5 kW at AC-23 A / at 690 V / rated value 15 kW at AC-3 / at 690 V / rated value 11.5 kW at AC-3 / at 690 V / rated value 11.5 kW ot AC-3 / at 690 V / rated value 690 V AC / at 50/60 Hz / rated value 690 V Auxiliary circuit Operating voltage / of auxiliary contacts / at AC / rated value 690 V Auxiliary circuit Operating voltage / of the auxiliary contact / rated value Solo V Auxiliary circuit Continuous current / of the auxiliary switch / rated value Solo V Suitability Suitability Suitability for use Main switch Yes switch disconnector Yes EMERGENCY OFF switch Yes maintenance/repair switch Yes Product feature / interlock Yotage trigger No Yotage trigger No Yotage trigger No 	Main circuit	
Full-scale value 60 Hz Operating power 18.5 kW • at AC-23 A / at 600 V / rated value 18.5 kW • at AC-23 A / at 690 V / rated value 15 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC / at 50/60 Hz / rated value 690 V • at AC / at 50/60 Hz / rated value 690 V • at AC / at 50/60 Hz / rated value 690 V Operating voltage 690 V • at AC / at 50/60 Hz / rated value 690 V Operating voltage / of auxiliary contacts / at AC / rated value 500 V Continuous current / of the auxiliary switch / rated value 10 A Insulation voltage / of the auxiliary switch / rated value 500 V Suitability Suitability for use 500 V • Main switch Yes • switch disconnector Yes • Suitability for use Yes • maintenance/repair switch Yes • maintenance/repair switch Yes Product feature / interlock Yes Product feature / interlock Yes	Operating frequency	
Operating power 18.5 kW • at AC-23 A / at 400 V / rated value 18.5 kW • at AC-23 A / at 690 V / rated value 15 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC / at 50/60 Hz / rated value 690 V Auxiliary circuit 690 V 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 contact / rated value 500 V Suitability 500 V Suitability 500 V Suitability for use 500 V • Main switch Yes • switch disconnector Yes • switch disconnector Yes • safety switch Yes • maintenance/repair switch Yes Product feature / interlock Yes Product extension / optional No • wotor drive No • Voltage trigger No Stort-time current resistance (low) / limited to 1 s / 1000 kA	• initial value	50 Hz
• at AC-23 A / at 400 V / rated value 18.5 kW • at AC-23 A / at 690 V / rated value 15 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW • at AC-3 / at 690 V / rated value 11.5 kW Operating voltage 690 V • at AC / at 50/60 Hz / rated value 690 V Auxiliary circuit 500 V Operating voltage / of auxiliary contacts / at AC / maximum 500 V Continuous current / of the auxiliary contact / rated value 500 V Suitability 500 V Suitability 500 V Suitability for use 700 V • Main switch Yes • switch disconnector Yes • switch disconnector Yes • switch disconnector Yes • switch feature / interlock Yes • maintenance/repair switch Yes • product feature / interlock Yes • product feature / interlock Yes • motor drive No • voltage trigger No • voltage trigger	• Full-scale value	60 Hz
a in a C-23 A / at 690 V / rated value 15 kW a t AC-3 / at 690 V / rated value 11.5 kW a t AC-3 / at 690 V / rated value 11.5 kW a t AC-3 / at 690 V / rated value 690 V Auxiliary circuit 690 V Operating voltage / of auxiliary contacts / at AC / maximum 500 V Continuous current / of the auxiliary contact / rated value 10 A Solitability 500 V Suitability 500 V Suitability for use 500 V • Main switch Yes • Safety switch Yes • EMERGENCY OFF switch Yes • maintenance/repair switch Yes Product feature / interlock Yes Product textension / optional No • motor drive No • Voltage trigger No	Operating power	
• at AC-3 / at 400 V / rated value 11.5 kW • at AC-3 / at 600 V / rated value 11.5 kW Operating voltage 690 V • at AC / at 50/60 Hz / rated value 690 V Auxiliary circuit 500 V Operating voltage / of auxiliary contacts / at AC / maximum 500 V Continuous current / of the auxiliary contact / rated value 500 V Insulation voltage / of the auxiliary switch / rated value 500 V Suitability 500 V Suitability 500 V Suitability 500 V Suitability for use 10 A • Main switch Yes • Suitability for use Yes • EMERGENCY OFF switch Yes • safety switch Yes • maintenance/repair switch Yes • maintenance/repair switch Yes Product feature / interlock Yes Product setension / optional No • wotor drive No • Votage trigger No Short-time current resistance (low) / limited to 1 s / 1000 kA	• at AC-23 A / at 400 V / rated value	18.5 kW
	• at AC-23 A / at 690 V / rated value	15 kW
Operating voltage at AC / at 50/60 Hz / rated value 690 V Auxiliary circuit Operating voltage / of auxiliary contacts / at AC / maximum Continuous current / of the auxiliary contact / rated value Insulation voltage / of the auxiliary switch / rated value Solo V 10 A Insulation voltage / of the auxiliary switch / rated value Solo V Value Solutability 500 V Suitability for use Main switch Yes Switch disconnector Yes EMERGENCY OFF switch Yes maintenance/repair switch Yes Product details Product teature / interlock Yes Product stension / optional No • motor drive Voltage trigger No Short-time current resistance (low) / limited to 1 s /	• at AC-3 / at 400 V / rated value	11.5 kW
• at AC / at 50/60 Hz / rated value 690 V Auxiliary circuit 500 V 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 500 V Suitability 500 V Suitability 500 V Product disconnector Yes • Main switch Yes • switch disconnector Yes • EMERGENCY OFF switch Yes • maintenance/repair switch Yes Product details Yes Product teature / interlock Yes Product extension / optional No • motor drive No • Voltage trigger No Short-time current resistance (low) / limited to 1 s / 1 000 kA	• at AC-3 / at 690 V / rated value	11.5 kW
Auxiliary circuit 500 V 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 500 V Suitability for use 500 V • Main switch Yes • switch disconnector Yes • EMERGENCY OFF switch Yes • safety switch Yes • maintenance/repair switch Yes Product details Product details Product extension / optional No • motor drive No • Voltage trigger No Short-time current resistance (low) / limited to 1 s / 1 000 kA	Operating voltage	
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 Yes • Switch disconnector Yes • EMERGENCY OFF switch Yes • maintenance/repair switch Yes Product details Yes Product details No • motor drive No • Voltage trigger No Short-time current resistance (low) / limited to 1 s / 1 000 kA <	• at AC / at 50/60 Hz / rated value	690 V
maximum Inaclassical and a strengthy contact / rated value 10 A Insulation voltage / of the auxiliary switch / rated value 500 V Suitability 500 V Suitability 500 V Suitability for use 500 V • Main switch Yes • Switch disconnector Yes • EMERGENCY OFF switch Yes • safety switch Yes • maintenance/repair switch Yes Product details Yes Product details Yes • motor drive No • Voltage trigger No Short-time current resistance (lcw) / limited to 1 s / 1 000 kA	Auxiliary circuit	
Continuous current / of the auxiliary contact / rated value 10 A Insulation voltage / of the auxiliary switch / rated value 500 V Suitability 500 V Suitability 500 V Suitability For auxiliary switch / rated value Suitability Ves Suitability for use Yes • Main switch Yes • Switch disconnector Yes • EMERGENCY OFF switch Yes • safety switch Yes • maintenance/repair switch Yes Product details Yes Product feature / interlock Yes Product feature / interlock No Product details No • motor drive No • Voltage trigger No Short-time current resistance (Icw) / limited to 1 s / 1 000 kA		500 V
value		
value Suitability Suitability for use Yes • Main switch Yes • switch disconnector Yes • EMERGENCY OFF switch Yes • safety switch Yes • maintenance/repair switch Yes • maintenance/repair switch Yes • Product details Yes Product feature / interlock Yes • motor drive No • wotor drive No • Voltage trigger No Short-time current resistance (lcw) / limited to 1 s / 1 000 kA		10 A
value Suitability Suitability for use Yes • Main switch Yes • switch disconnector Yes • EMERGENCY OFF switch Yes • safety switch Yes • maintenance/repair switch Yes • maintenance/repair switch Yes • Product details Yes Product feature / interlock Yes • motor drive No • wotor drive No • Voltage trigger No Short-time current resistance (lcw) / limited to 1 s / 1 000 kA	Insulation voltage / of the auxiliary switch / rated	500 V
Suitability for use Yes Main switch Yes • switch disconnector Yes • EMERGENCY OFF switch Yes • safety switch Yes • maintenance/repair switch Yes Product details Yes Product feature / interlock Yes Product extension / optional Yes • motor drive No • Voltage trigger No Short-time current resistance (lcw) / limited to 1 s / 1 000 kA		
Main switchYes• switch disconnectorYes• EMERGENCY OFF switchYes• safety switchYes• maintenance/repair switchYes• motor driveYes• Product feature / interlockYes• Product feature / interlockYes• motor driveNo• Nolage triggerNo• Short-time current resistance (Icw) / limited to 1 s /1 000 kA	Suitability	
 switch disconnector Switch disconnector EMERGENCY OFF switch Safety switch safety switch maintenance/repair switch Yes Product details Product details Product feature / interlock Yes Product extension / optional Yes • motor drive No • Voltage trigger No Short-time current resistance (Icw) / limited to 1 s / 1 000 kA	Suitability for use	
• EMERGENCY OFF switch Yes • safety switch Yes • maintenance/repair switch Yes Product details Yes Product feature / interlock Yes Product extension / optional Yes • motor drive No • Voltage trigger No Short-time current resistance (Icw) / limited to 1 s / 1 000 kA	Main switch	Yes
 safety switch maintenance/repair switch Product details Product feature / interlock Product extension / optional motor drive Voltage trigger No Short-time current resistance (lcw) / limited to 1 s / 1000 kA 	 switch disconnector 	Yes
	 EMERGENCY OFF switch 	Yes
Product details Product feature / interlock Yes Product extension / optional • motor drive No • Voltage trigger No Short-time current resistance (Icw) / limited to 1 s / 1 000 kA	 safety switch 	Yes
Product feature / interlock Yes Product extension / optional	 maintenance/repair switch 	Yes
Product extension / optional No • motor drive No • Voltage trigger No Short-time current resistance (Icw) / limited to 1 s / 1 000 kA	Product details	
• motor drive No • Voltage trigger No Short-time current resistance (Icw) / limited to 1 s / 1 000 kA	Product feature / interlock	Yes
Voltage trigger No Short-time current resistance (Icw) / limited to 1 s / 1 000 kA	Product extension / optional	
Short-time current resistance (Icw) / limited to 1 s / 1 000 kA	motor drive	No
	Voltage trigger	No
rated value		1 000 kA
	rated value	

Number of NC contacts	1
Number of NO contacts	1
Connections	
Type of electrical connection	
• for main current circuit	Box terminal
Requirements	
Design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 40 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
/lechanical Design	
Height	60 mm
Width	60 mm
Depth	64 mm
Mounting type	Built-in unit fixed-mounted version
Mounting type	
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	No
• rail mounting	Yes
Net weight	200 g
Environmental conditions	
Ambient temperature	
 during operation / minimum 	-25 °C
 during operation / maximum 	55 °C
Certificates	
Equipment marking	
• acc. to DIN EN 61346-2	S
• acc. to DIN EN 81346-2	SF
Declaration of Conformity	

EG-Konf.

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=3LD3310-1TL05

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3310-1TL05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3310-1TL05

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://www.siemens.com/specifications







