SIEMENS

3LD2054-0TK51 Data sheet

> SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, front-mounted, rotary operating mechanism, black, central mounting 22.5 mm of the handle



Model		
Product brand name	SENTRON	
Product designation	3LD Switch disconnector	
Design of the product	Main switch	
Display version / for switch position indicator manual operation	1 ON - 0 OFF	
Design of the operating mechanism	Short rotary knob	
Design of handle	rotary operating mechanism, black	
Type of the driving mechanism / motor drive	No	

General technical data	
Number of poles	3
Type of device	fixed mounting
Type of switch	front mounted
Size of switch disconnector	1
Electrical endurance (switching cycles)	
● at AC-23 A / at 690 V	6 000
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	2.5 kA2.s

for combination switch + gG fuse / maximum Mechanical service life (switching cycles) / typical Tou 000 Deparating frequency / maximum So 1/h Voltage Insulation voltage / rated value 690 V Surge voltage resistance / rated value 690 V Surge voltage cerestance / rated value 690 V Protection gurrent / at AC / rated value 690 V Protection class Protection class IP Protection class IP Protection class IP IP65 Degree of protection NEMA rating 1, 3R, 4X, 12 Protection class IP IP65 Dissipation Power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • per conductor / typical 0.5 W Current Operating current • at AC-23 A / at 690 V / rated value 16 A • at AC-23 A / at 400 V / rated value 16 A • at AC-21 A / at 240 V / rated value 16 A • at AC-21 A / at 240 V / rated value 16 A • at AC-22 A / at 240 V / rated value 16 A • at AC-22 A / at 240 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-22 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-22 A / at 240 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-20 A / at 240 V / rated value 16 A • at AC-20 A / at 440 V / rated value 16 A • at AC-20 A / at 440 V / rated value 16 A • at AC-20 A / at 440 V / rated value 16 A • at AC-20 A / at 440 V / rated value 16 A • at AC-20 A / at 440 V / rated value 16 A • at AC-20 A / at 440 V / rated value 16 A • at AC-20 A / at 440 V / rated value	Lat the control of control of control of the contro	0.5.140
Sol 1/h	Let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 kA2.s
Voltage Insulation voltage / rated value Surge voltage resistance / rated value 680 V Surge voltage resistance / rated value 6 kV Operating ourner1 / at AC / rated value 690 V Protection class Protection class IP Begree of protection NEMA rating Protection class IP IP65 Degree of protection NEMA rating 1, 3R, 4X, 12 Protection class IP IP65 Dissipation Power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • per conductor / typical Operating current • at AC-23 A / at 690 V / rated value • at AC-22 A / at 690 V / rated value • at AC-21 A is 690 V / rated value • at AC-21 A is 690 V / rated value • at AC-21 A / at 440 V / rated value • at AC-22 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-21 A / at 440 V / rated value • at AC-22 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-22 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V / at 400 V / rated value • at AC-30 V /	Mechanical service life (switching cycles) / typical	100 000
Insulation voltage / rated value 690 V Surge voltage resistance / rated value 6 kV Operating current / at AC / rated value 690 V Protection class Protection class IP Degree of protection NEMA rating 1, 3R, 4X, 12 Protection class IP	Operating frequency / maximum	50 1/h
Insulation voltage / rated value	Voltage	
Operating current / at AC / rated value		690 V
Operating voltage ◆ at AC / at 50/60 Hz / rated value 690 V 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 0.5 W • per conductor / typical 0.5 W Current Operating current • at AC-23 A / at 690 V / rated value 16 A • at AC-23 A / at 400 V / rated value 16 A • at AC-21 / at 690 V / rated value 16 A • at AC-21 / at 690 V / rated value 16 A • at AC-21 / at 440 V / rated value 16 A • at AC-21 / at 440 V / rated value 16 A • at AC-22 A / at 240 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A • at AC-23 A / at 440 V / rated value 16 A	Surge voltage resistance / rated value	6 kV
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 • per conductor / typical 0.5 W Current Operating current • at AC-23 A / at 690 V / rated value 16 A	Operating current / at AC / rated value	16 A
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 • per conductor / typical Operating current • at AC-23 A / at 690 V / rated value • at AC-22 A / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-22 A / at 240 V / rated value • at AC-21 / at 690 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-24 A / at 240 V / rated value • at AC-25 A / at 240 V / rated value • at AC-26 A / at 240 V / rated value • at AC-27 A / at 240 V / rated value • at AC-28 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at A	Operating voltage	
Protection class IP	• at AC / at 50/60 Hz / rated value	690 V
Degree of protection NEMA rating	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 • per conductor / typical Operating current Operating current • at AC-23 A / at 690 V / rated value • at AC-23 A / at 690 V / rated value • at AC-22 A / at 690 V / rated value • at AC-21 A / at 690 V / rated value • at AC-21 A / at 240 V / rated value • at AC-21 A / at 240 V / rated value • at AC-21 A / at 240 V / rated value • at AC-22 A / at 440 V / rated value • at AC-21 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-24 A / at 240 V / rated value • at AC-25 A / at 240 V / rated value • at AC-26 A / at 240 V / rated value • at AC-27 A / at 240 V / rated value • at AC-28 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-29 A /	Protection class IP	IP65
Power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • per conductor / typical Operating current • at AC-23 A / at 690 V / rated value • at AC-23 A / at 690 V / rated value • at AC-22 A / at 690 V / rated value • at AC-22 A / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 440 V / rated value • at AC-30 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 • per conductor / typical Operating current • at AC-23 A / at 690 V / rated value • at AC-23 A / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 240 V / rated value • at AC-21 A / at 240 V / rated value • at AC-21 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-24 A / at 240 V / rated value • at AC-25 A / at 240 V / rated value • at AC-26 A / at 240 V / rated value • at AC-27 A / at 240 V / rated value • at AC-28 A / at 240 V / rated value • at AC-29 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value • at AC-20 A / at 240 V / rated value Operating current / with closed switch • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) • limited to 1 s / rated value • at 690 V / limited to 1 s / rated value	Protection class IP / on the front	IP65
• for rated value of the current / at AC / in hot operating state / per pole • per conductor / typical Operating current • at AC-23 A / at 690 V / rated value • at AC-23 A / at 690 V / rated value • at AC-22 A / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 240 V / rated value • at AC-21 A / at 240 V / rated value • at AC-21 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value Operating current / of upstream fuse / rated value • at AC-00 Combination switch • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) • limited to 1 s / rated value • at 690 V / limited to 1 s / rated value • at 690 V / limited to 1 s / rated value	Dissipation	
operating state / per pole • per conductor / typical Other 1 Operating current • at AC-23 A / at 690 V / rated value • at AC-23 A / at 400 V / rated value • at AC-22 A / at 690 V / rated value • at AC-22 A / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 A / at 240 V / rated value • at AC-21 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 440 V / rated value • at AC-23 A / at 440 V / rated value • at AC-23 A / at 440 V / rated value • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (low) • limited to 1 s / rated value • at 690 V / limited to 1 s / rated value 340 A	Power loss [W]	
● per conductor / typical 0.5 W Current ● at AC-23 A / at 690 V / rated value 9 A ● at AC-23 A / at 690 V / rated value 16 A ● at AC-22 A / at 690 V / rated value 16 A ● at AC-21 / at 690 V / rated value 16 A ● at AC-21 A at 240 V / rated value 16 A ● at AC-21 A / at 240 V / rated value 16 A ● at AC-22 A / at 240 V / rated value 16 A ● at AC-23 A / at 240 V / rated value 16 A ● at AC-23 A / at 240 V / rated value 16 A ● at AC-23 A / at 440 V / rated value 16 A Operating current / of upstream fuse / rated value 20 A Let-through current / with closed switch 3 kA ● at 490 V / for combination switch + gG fuse / maximum permissible 3 kA Short-time withstand current (lcw) 4 inited to 1 s / rated value 340 A ● at 690 V / limited to 1 s / rated value 340 A	• for rated value of the current / at AC / in hot	0.5 W
Operating current • at AC-23 A / at 690 V / rated value 9 A • at AC-23 A / at 400 V / rated value 16 A • at AC-22 A / at 690 V / rated value 16 A • at AC-22 A / at 690 V / rated value 16 A • at AC-21 / at 690 V / rated value 16 A • at AC-21 A / at 240 V / rated value 16 A • at AC-21 A / at 240 V / rated value 16 A • at AC-21 A / at 240 V / rated value 16 A • at AC-22 A / at 240 V / rated value 16 A • at AC-22 A / at 240 V / rated value 16 A • at AC-23 A / at 240 V / rated value 16 A • at AC-23 A / at 240 V / rated value 16 A • at AC-23 A / at 240 V / rated value 16 A • at AC-23 A / at 440 V / rated value 20 A Let-through current / of upstream fuse / rated value 20 A Let-through current / with closed switch • at 440 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) • limited to 1 s / rated value 340 A • at 690 V / limited to 1 s / rated value 340 A	operating state / per pole	
Operating current • at AC-23 A / at 690 V / rated value • at AC-23 A / at 690 V / rated value • at AC-22 A / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 A / at 240 V / rated value • at AC-21 A / at 240 V / rated value • at AC-21 A / at 440 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 440 V / rated value • at AC-23 A / at 440 V / rated value • at AC-23 A / at 440 V / rated value • at AC-23 A / at 440 V / rated value • at 4690 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (Icw) • limited to 1 s / rated value • at 690 V / limited to 1 s / rated value • at 690 V / limited to 1 s / rated value • at 690 V / limited to 1 s / rated value	• per conductor / typical	0.5 W
 at AC-23 A / at 690 V / rated value at AC-23 A / at 400 V / rated value at AC-22 A / at 690 V / rated value at AC-21 / at 690 V / rated value at AC-21 / at 690 V / rated value at AC-21 / A / at 240 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value b at AC-23 A / at 440 V / for combination switch at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A at 690 V / limited to 1 s / rated value 	Current	
at AC-23 A / at 400 V / rated value at AC-22 A / at 690 V / rated value at AC-21 / at 690 V / rated value at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 440 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 240 V / rated value bat AC-23 A / at 440 V / rated value cat AC-23 A / at 440 V / rated value bat AC-23 A / at 440 V / rated value cat AC-25 A / at 440 V / rated value bat AC-26 A / at 440 V / rated value cat AC-27 A / at 440 V / rated value cat AC-28 A / at 440 V / rated value cat AC-29 A / at 440 V / rated value cat AC-29 A / at 440 V / rated value cat AC-29 A / at 440 V / rated value at A	Operating current	
at AC-22 A / at 690 V / rated value at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 440 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value be at AC-23 A / at 440 V / rated value carrent / of upstream fuse / rated value Let-through current / with closed switch at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A	• at AC-23 A / at 690 V / rated value	9 A
at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value bat AC-23 A / at 440 V / rated value comparison of the street of t	• at AC-23 A / at 400 V / rated value	16 A
at AC-21 A / at 240 V / rated value at AC-21 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value be at AC-23 A / at 440 V / rated value Coperating current / of upstream fuse / rated value 20 A Let-through current / with closed switch at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A	• at AC-22 A / at 690 V / rated value	16 A
 at AC-21 A / at 440 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 440 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value Operating current / of upstream fuse / rated value Let-through current / with closed switch at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (Icw) limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A 	• at AC-21 / at 690 V / rated value	16 A
 at AC-22 A / at 240 V / rated value at AC-22 A / at 440 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value 16 A Operating current / of upstream fuse / rated value Let-through current / with closed switch at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A at 690 V / limited to 1 s / rated value 	• at AC-21 A / at 240 V / rated value	16 A
 at AC-22 A / at 440 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value 16 A Operating current / of upstream fuse / rated value Let-through current / with closed switch at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A 340 A 	• at AC-21 A / at 440 V / rated value	16 A
at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value Operating current / of upstream fuse / rated value Let-through current / with closed switch at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (Icw) Ilmited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A	• at AC-22 A / at 240 V / rated value	16 A
at AC-23 A / at 440 V / rated value Operating current / of upstream fuse / rated value Let-through current / with closed switch at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (Icw) Ilimited to 1 s / rated value at 690 V / limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A	• at AC-22 A / at 440 V / rated value	16 A
Operating current / of upstream fuse / rated value Let-through current / with closed switch • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) • limited to 1 s / rated value • at 690 V / limited to 1 s / rated value 340 A • at 690 V / limited to 1 s / rated value	• at AC-23 A / at 240 V / rated value	16 A
Let-through current / with closed switch • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (lcw) • limited to 1 s / rated value • at 690 V / limited to 1 s / rated value 340 A 3 kA 3 kA 3 kA	• at AC-23 A / at 440 V / rated value	16 A
 at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (Icw) limited to 1 s / rated value at 690 V / limited to 1 s / rated value 3 kA 4 kA 5 kA 6 kB 6 kB 7 kB 8 kB 8 kA 8 kB 8 kB	Operating current / of upstream fuse / rated value	20 A
maximum • at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (Icw) • limited to 1 s / rated value • at 690 V / limited to 1 s / rated value 340 A • at 690 V / limited to 1 s / rated value	Let-through current / with closed switch	
 at 690 V / for combination switch + gG fuse / maximum permissible Short-time withstand current (Icw) limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A 340 A 	• at 440 V / for combination switch + gG fuse /	3 kA
maximum permissible Short-time withstand current (Icw) I limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A 340 A	maximum	
 limited to 1 s / rated value at 690 V / limited to 1 s / rated value 340 A 340 A 	_	3 kA
• at 690 V / limited to 1 s / rated value 340 A	Short-time withstand current (Icw)	
	limited to 1 s / rated value	340 A
Main circuit	• at 690 V / limited to 1 s / rated value	340 A
	Main circuit	

Operating frequency	
• initial value	50 Hz
• Full-scale value	60 Hz
Operating power	
• at AC-23 A / at 240 V / rated value	4 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	7.5 kW
• at AC-23 A / at 400 V / rated value	7.5 kW
• at AC-23 A / at 440 V / rated value	7.5 kW
• at AC-23 A / at 690 V / rated value	7.5 kW
• at AC-3 / at 240 V / rated value	3 kW
• at AC-3 / at 400 V / rated value	5.5 kW
• at AC-3 / at 690 V / rated value	5.5 kW
Operating current / rated value	16 A
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
Appearance	
Color / of the actuating element	black
Product details	
 Product function / can be locked into OFF position 	Yes
Number of bracket locks / maximum	3
Hasp thickness / of the bracket locks / minimum	4 mm
Hasp thickness / of the bracket locks / maximum	8 mm
Product extension / optional	
• motor drive	No
Voltage trigger	No

Short circuit	
Conditional short-circuit current / with line-side fuse	
protection	
• at 690 V / by gG fuse / rated value	50 kA
according UL	
Operating current / at AC / according to UL 508/UL	16 A
60947-4-1 / Rated value	
Operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value	600 V
Active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value	7.5
Active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	10
Short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	5 kA
Continuous current / of upstream fuse / according to UL / rated value	50 A
Type of fuse / according to UL	RK5
Number	
Number of connectable NC contacts / for auxiliary	2
contacts / attachable / maximum	
Number of connectable NO contacts / for auxiliary	2
contacts / attachable / maximum	
Number of connectable CO contacts / for auxiliary	0
contacts / attachable / maximum	
Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	10
• minimum	18
Type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16mm²)
 finely stranded / with core end processing 	1x (14mm²)
• stranded	1x (16mm²)
Type of connectable conductor cross-sections / for	
auxiliary contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
finely stranded / with core end processing	2x (0.75 1.5 mm²), 1x 2.5 mm²
• stranded	2x (0.75 2.5 mm2), 1x 4 mm2
Type of electrical connection	
• for main current circuit	box terminal
 for auxiliary contacts 	connection terminals

Requirements

Design of the fuse link

• for short-circuit protection of the main circuit /

• for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 20 A

fuse gL/gG: 10 A

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MAC	nan	ICOI	 ASIAN	
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Mechanical Design	
Height	84 mm
Width	67 mm
Depth	116.5 mm
Mounting type	Built-in unit fixed-mounted version
Mounting type	
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	Yes
• rail mounting	No
Net weight	208 g

Ambient temperature / during operation

-25 °C • minimum 55 °C

Ambient temperature / during storage / minimum -25 °C

Certificates

Reference code

• maximum

• acc. to DIN EN 61346-2

S

• acc. to DIN EN 81346-2

SF

General Product Approval

Declaration of Conformity









Miscellaneous



Test	Certific-
ates	

Shipping Approval

other

Special Test Certificate

Environmental Confirmations

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=3LD2054-0TK51

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2054-0TK51

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2054-0TK51

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications











