## **SIEMENS**

3LD2103-2EP51 Data sheet



SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, front-mounted, 1 NC, 1 NO, rotary operating mechanism, black, 4-hole mounting 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	4
Type of device	fixed mounting
Type of switch	front mounted
Size of switch disconnector	2
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	4 kA2.s

Let-through [21 value / with closed switch / at 440 V / for combinations witch + g G fuse / maximum  Mechanical service life (switching cycles) / typical  Mechanical service life (switching cycles) / typical  Operating frequency / maximum  50 1/h  Voltage  Insulation voltage / rated value  690 V  Surge voltage resistance / rated value  690 V  Operating current / at AC / rated value  690 V  Protection class  Protection class  Protection class IP  Protection class IP   IP65  Degree of protection NEMA rating  1, 3R, 4X, 12  Protection class IP / on the front  IP65  Power loss IW   • for rated value of the current / at AC / in hot operating state / per pole  • per conductor / typical  1,1 W  Current  Operating current  • at AC-23 A / at 480 V / rated value  • at AC-23 A / at 400 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-22 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 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 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 AC-25 A / at 440 V / rated value  • at AC-25 A / at 440 V / rated value  • at AC-25 A / at 440 V / rated value  • at AC-25 A / at 440 V / rated value  • at AC-25 A / at 440 V / rated value  • at AC-25 A / at 440 V / rated value  • at AC-26 A / at 440 V / rated value  • at AC-27 A / at 440 V / rated value  • at AC-27 A / at 440 V / rated value  • at AC-28 A / at 440 V / rated value  • at AC-29 A / at 440 V / rated value  • at AC-29 A / at 440 V / rated value  • 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 co		
Voltage   Insulation voltage / rated value   690 V   Surge voltage resistance / rated value   690 V   Surge voltage resistance / rated value   25 A   Operating current / at AC / rated value   25 A   Operating voltage   • at AC / at 50/60 Hz / rated value   690 V   Operating voltage   • at AC / at 50/60 Hz / rated value   690 V   Operating voltage   Operating vol	Let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA2.s
Voltage  Insulation voltage / rated value 690 V  Surge voltage resistance / rated value 6 kV  Operating current / at AC / rated value 25 A  Operating voltage • at AC / at 50/60 Hz / rated value 690 V  Protection class  Protection class IP IP6  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 1.1 W  Current  Operating current  • at AC-23 A / at 400 V / rated value 25 A • at AC-21 A / at 440 V / rated value 25 A • at AC-21 A / at 440 V / rated value 25 A • at AC-22 A / at 400 V / rated value 25 A • at AC-22 A / at 400 V / rated value 25 A • at AC-22 A / at 400 V / rated value 25 A • at AC-22 A / at 400 V / rated value 25 A • at AC-22 A / at 400 V / rated value 25 A • at AC-22 A / at 400 V / rated value 25 A • at AC-21 A / at 440 V / rated value 25 A • at AC-22 A / at 400 V / rated value 25 A • at AC-22 A / at 400 V / rated value 25 A • at AC-23 A / at 400 V / rated value 25 A • at AC-23 A / at 400 V / rated value 25 A • at AC-23 A / at 400 V / rated value 25 A • at AC-23 A / at 400 V / rated value 25 A • at AC-23 A / at 400 V / rated value 25 A • at AC-23 A / at 400 V / rated value 25 A • at AC-23 A / at 400 V / rated value 25 A • at AC-23 A / at 400 V / rated value 25 A • at AC-23 A / at 400 V / rated value 25 A • at AC-20 A / at 240 V / rated value 25 A • at AC-20 A / at 240 V / rated value 25 A • at AC-30 A / at 440 V / rated value 25 A • at AC-30 A / at 440 V / rated value 35 A • at AC-30 A / at 440 V / rated value 35 A • at AC-30 A / at 240 V / rated value 35 A • at AC-30 A / at 240 V / rated value 35 A • at AC-30 A / at 240 V / rated value 35 A • at AC-30 A / at 240 V / rated value 35 A • at AC-30 A / at 440 V / rated value 35 A • at AC-30 A / at 440 V / rated value 35 A • at AC-30 A / at 440 V / rated value 35 A • at AC-30 A / at 440 V / rated value 35 A • at AC-30 A / at 440 V / rated value 35 A • at AC-30 A / at 440 V / rated value 35	Mechanical service life (switching cycles) / typical	100 000
Insulation voltage / rated value	Operating frequency / maximum	50 1/h
Surge voltage resistance / rated value   25 A	Voltage	
Operating outlage         • at AC / at 50/60 Hz / rated value         690 V           Protection class IP           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         1.1 W           • per conductor / typical         1.1 W           Current           Operating current           • at AC-23 A / at 4690 V / rated value         20 A           • at AC-23 A / at 400 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-21 A / at 440 V / rated value         25 A           • at AC-22 A / at 440 V / rated value         25 A           • at AC-23 A / at 440 V / rated value         25 A           • at AC-23 A / at 440 V / rated value         25 A           • at AC-23 A / at 440 V / rated value         25 A           • at AC-23 A / at 440 V / rated value         25 A           • at AC-23 A / at 440 V / rated value         25 A           • at AC-23 A / at 440 V / rate		690 V
Operating voltage  • at AC / at 50/60 Hz / rated value  690 V  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  1.1 W  Current  Operating current • at AC-23 A / at 690 V / rated value • at AC-23 A / at 690 V / rated value • at AC-21 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 400 V / rated value • at AC-21 / at 400 V / rated value • at AC-21 A / at 440 V / rated value • at AC-22 A / at 240 V / rated value • at AC-23 A / at 440 V / rated value • at AC-24 A / at 440 V / rated value • at AC-25 A / at 440 V / rated value • at AC-26 A / at 440 V / rated value • at AC-27 A / at 440 V / rated value • at AC-28 A / at 440 V / rated value • at AC-29 A / at 440 V / rated value • at AC-20 A / at 440 V / rated value • at A	Surge voltage resistance / rated value	6 kV
Protection class Protection class IP	Operating current / at AC / rated value	25 A
Protection class IP Degree of protection NEMA rating Protection class IP	Operating voltage	
Protection class IP	• at AC / at 50/60 Hz / rated value	690 V
Degree of protection NEMA rating   1, 3R, 4X, 12	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  1.1 W  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 / 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 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-29 A / at 240 V / rated value • at AC-20 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-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-21 A / at 440 V / rated value • at AC-23 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	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             • per conductor / typical             • 1.1 W           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-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 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 AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-33 A / at 440 V / rated value             • at AC-35 A / at 440 V / rated value             • at AC-35 A / at 440 V / rated value             • at AC-35 A / at 440 V / rated value	Degree of protection NEMA rating	1, 3R, 4X, 12
Power loss [W]	Protection class IP / on the front	IP65
• for rated value of the current / at AC / in hot operating state / per pole • per conductor / typical  1.1 W  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-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 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 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 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  1.1 W  Current  Operating current  • at AC-23 A / at 690 V / rated value  • 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 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 240 V / rated value  • at AC-23 A / at 440 V / rated value  20 A  Operating current / of upstream fuse / rated value  25 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  • at 690 V / limited to 1 s / rated value	Power loss [W]	
• per conductor / typical  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-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 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 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 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 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	<ul><li>for rated value of the current / at AC / in hot</li></ul>	1.1 W
Current  Operating current  • at AC-23 A / at 690 V / rated value  • at AC-23 A / at 400 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-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  20 A  Operating current / of upstream fuse / 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 (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	operating state / per pole	
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-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 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 (lcw)  • limited to 1 s / rated value  • at 690 V / limited to 1 s / rated value  • 640 A	• per conductor / typical	1.1 W
<ul> <li>at AC-23 A / at 690 V / rated value</li> <li>at AC-23 A / at 400 V / rated value</li> <li>at AC-22 A / at 690 V / rated value</li> <li>at AC-21 / at 690 V / rated value</li> <li>25 A</li> <li>at AC-21 A / at 240 V / rated value</li> <li>25 A</li> <li>at AC-21 A / at 240 V / rated value</li> <li>25 A</li> <li>at AC-21 A / at 240 V / rated value</li> <li>25 A</li> <li>at AC-22 A / at 240 V / rated value</li> <li>25 A</li> <li>at AC-22 A / at 240 V / rated value</li> <li>25 A</li> <li>at AC-22 A / at 440 V / rated value</li> <li>25 A</li> <li>at AC-23 A / at 440 V / rated value</li> <li>20 A</li> <li>orat AC-33 A / at 440 V / rated value</li> <li>20 A</li> <li>Operating current / of upstream fuse / rated value</li> <li>25 A</li> <li>Let-through current / with closed switch</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>Short-time withstand current (lcw)</li> <li>limited to 1 s / rated value</li> <li>640 A</li> <li>at 690 V / limited to 1 s / rated value</li> <li>640 A</li> </ul>	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 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 240 V / rated value  bat AC-23 A / at 440 V / rated value  consider the following of the followi	Operating current	
<ul> <li>at AC-22 A / at 690 V / rated value</li> <li>at AC-21 / at 690 V / rated value</li> <li>at AC-21 A / at 240 V / rated value</li> <li>at AC-21 A / at 240 V / rated value</li> <li>at AC-21 A / at 240 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at 440 V / for combination switch</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>Short-time withstand current (lcw)</li> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> <li>640 A</li> <li>at 690 V / limited to 1 s / rated value</li> </ul>	• at AC-23 A / at 690 V / rated value	11 A
<ul> <li>at AC-21 / at 690 V / rated value</li> <li>at AC-21 A / at 240 V / rated value</li> <li>at AC-21 A / at 440 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 440 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>AC-23 A / at 440 V / rated value</li> <li>at 440 V / for combination switch</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>Short-time withstand current (lcw)</li> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> <li>640 A</li> <li>at 690 V / limited to 1 s / rated value</li> </ul>	• at AC-23 A / at 400 V / rated value	20 A
<ul> <li>at AC-21 A / at 240 V / rated value</li> <li>at AC-21 A / at 440 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 440 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>Operating current / of upstream fuse / rated value</li> <li>25 A</li> <li>Let-through current / with closed switch</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>Short-time withstand current (lcw)</li> <li>limited to 1 s / rated value</li> <li>640 A</li> <li>at 690 V / limited to 1 s / rated value</li> </ul>	• at AC-22 A / at 690 V / rated value	25 A
<ul> <li>at AC-21 A / at 440 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 440 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>Operating current / of upstream fuse / rated value</li> <li>Let-through current / with closed switch</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>Short-time withstand current (lcw)</li> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> <li>640 A</li> <li>at 690 V / limited to 1 s / rated value</li> </ul>	• at AC-21 / at 690 V / rated value	25 A
<ul> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 440 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>Operating current / of upstream fuse / rated value</li> <li>25 A</li> <li>Let-through current / with closed switch</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>Short-time withstand current (lcw)</li> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> <li>640 A</li> <li>at 690 V / limited to 1 s / rated value</li> </ul>	• at AC-21 A / at 240 V / rated value	25 A
<ul> <li>at AC-22 A / at 440 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> <li>20 A</li> <li>Operating current / of upstream fuse / rated value</li> <li>25 A</li> <li>Let-through current / with closed switch</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>Short-time withstand current (lcw)</li> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> <li>640 A</li> <li>640 A</li> </ul>	• at AC-21 A / at 440 V / rated value	25 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  25 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 (Icw)  Ilimited to 1 s / rated value  at 690 V / limited to 1 s / rated value  640 A	• at AC-22 A / at 240 V / rated value	25 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  640 A	• at AC-22 A / at 440 V / rated value	25 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  640 A	• at AC-23 A / at 240 V / 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 (Icw)  • limited to 1 s / rated value  • at 690 V / limited to 1 s / rated value  640 A	• at AC-23 A / at 440 V / rated value	20 A
<ul> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>Short-time withstand current (Icw)</li> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> <li>640 A</li> <li>640 A</li> </ul>	Operating current / of upstream fuse / rated value	25 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  640 A	Let-through current / with closed switch	
<ul> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>Short-time withstand current (Icw)</li> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> <li>640 A</li> </ul>	_	3.5 kA
maximum permissible  Short-time withstand current (Icw)  I limited to 1 s / rated value  at 690 V / limited to 1 s / rated value  640 A  640 A		
<ul> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> <li>640 A</li> </ul>	_	3.5 kA
at 690 V / limited to 1 s / rated value     640 A	Short-time withstand current (lcw)	
	• limited to 1 s / rated value	640 A
Main circuit	• at 690 V / limited to 1 s / rated value	640 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	5 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	9.5 kW
• at AC-23 A / at 400 V / rated value	9.5 kW
• at AC-23 A / at 440 V / rated value	9.5 kW
• at AC-23 A / at 690 V / rated value	9.5 kW
• at AC-3 / at 240 V / rated value	4 kW
• at AC-3 / at 400 V / rated value	7.5 kW
• at AC-3 / at 690 V / rated value	7.5 kW
Operating current / rated value	25 A
Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	1
Number of NO contacts / for auxiliary contacts	1
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
<ul> <li>EMERGENCY OFF switch</li> </ul>	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 / acc. to UL 508 / rated value	25 A
Operating voltage / at AC / at 50/60 Hz / acc. to UL 508 / rated value	600 V
Active power [hp] / at AC / at 480 V / acc. to UL 508 / rated value	10
Active power [hp] / at AC / at 600 V / acc. to UL 508 / rated value	15
Short-time withstand current (SCCR) / at 600 V / acc. to UL 508	5 kA
Continuous current / of upstream fuse / according to UL / rated value	50 A
Type of fuse / according to UL	RK5
Number of connectable NC contacts / for auxiliary contacts / attachable / maximum	1
Number of connectable NO contacts / for auxiliary contacts / attachable / maximum	1
Number of connectable CO contacts / for cuvilian:	0
Number of connectable CO contacts / for auxiliary contacts / attachable / maximum	O
-	
contacts / attachable / maximum	
Connections  AWG number / as coded connectable conductor	8
Connections  AWG number / as coded connectable conductor cross section / solid	
contacts / attachable / maximum  Connections  AWG number / as coded connectable conductor cross section / solid  • maximum	8
contacts / attachable / maximum  Connections  AWG number / as coded connectable conductor cross section / solid  • maximum  • minimum  Type of connectable conductor cross-sections / for	8
contacts / attachable / maximum  Connections  AWG number / as coded connectable conductor cross section / solid  • maximum  • minimum  Type of connectable conductor cross-sections / for copper conductor	8 14
contacts / attachable / maximum  Connections  AWG number / as coded connectable conductor cross section / solid  • maximum  • minimum  Type of connectable conductor cross-sections / for copper conductor  • solid	8 14 1x (1,516mm²)
contacts / attachable / maximum  Connections  AWG number / as coded connectable conductor cross section / solid  maximum minimum  Type of connectable conductor cross-sections / for copper conductor  solid finely stranded / with core end processing	8 14 1x (1,516mm²) 1x (1,510mm²)
Connections  AWG number / as coded connectable conductor cross section / solid  • maximum  • minimum  Type of connectable conductor cross-sections / for copper conductor  • solid  • finely stranded / with core end processing  • stranded  Type of connectable conductor cross-sections / for	8 14 1x (1,516mm²) 1x (1,510mm²)
contacts / attachable / maximum  Connections  AWG number / as coded connectable conductor cross section / solid  maximum minimum  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	8 14  1x (1,516mm²) 1x (1,510mm²) 1x (1,516mm²) 1x (1,516mm²)
Connections  AWG number / as coded connectable conductor cross section / solid  • maximum  • minimum  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	8 14  1x (1,516mm²) 1x (1,510mm²) 1x (1,516mm²)  lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)  lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front
Connections  AWG number / as coded connectable conductor cross section / solid  • maximum  • minimum  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  • finely stranded / with core end processing	8 14  1x (1,516mm²) 1x (1,510mm²) 1x (1,516mm²)  lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front

• for auxiliary contacts

connection terminals

### Requirements

Design of the fuse link

• for short-circuit protection of the main circuit /

required • for short-circuit protection of the auxiliary switch

/ required

fuse gL/gG: 25 A

fuse gL/gG: 10 A

Mechanical Design		
Height	84 mm	
Width	67 mm	
Depth	92.5 mm	
Mounting type	Built-in unit fixed-mounted version	
Mounting type		
<ul> <li>front mounting with 4-hole attachment</li> </ul>	Yes	
<ul> <li>front mounting with central attachment</li> </ul>	No	
• rail mounting	No	
Net weight	240 g	

Environmental conditions		
Ambient temperature / during operation		
• minimum	-25 °C	
• maximum	55 °C	
Ambient temperature / during storage / minimum	-25 °C	

#### Certificates

Reference code

• 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 Certi-			Environmental Con-
Special rest Certi-	11	SUESTA S	Environmental Con-

ficate



firmations

#### 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=3LD2103-2EP51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2103-2EP51

# Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2103-2EP51">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2103-2EP51</a>

#### **CAx-Online-Generator**

http://www.siemens.com/cax

#### **Tender specifications**

http://www.siemens.com/specifications











