SIEMENS

Data sheet

3LD2103-4VP51



SENTRON, Switch disconnector 3LD, main switch, 6-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
type of switch	front mounted
design of the actuating element	Short rotary knob
color of the actuating element	black
design of handle	rotary operating mechanism, black
type of the driving mechanism motor drive	No
General technical data	
number of poles	6
size of switch disconnector	2
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	6 000
operating frequency maximum	50 1/h
degree of pollution	3
Voltage	
insulation voltage rated value	690 V
surge voltage resistance rated value	6 kV
operating voltage	
 at AC rated value 	690 V
operating frequency rated value	
• minimum	50 Hz
• maximum	60 Hz
Protection class	
protection class IP	IP65
degree of protection NEMA rating	1, 3R, 4X, 12
protection class IP on the front	IP65
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.1 W
Current	
operational current rated value	25 A
operational current	
 at 40 °C rated value 	25 A
 at 45 °C rated value 	25 A
 at 50 °C rated value 	25 A
 at 55 °C rated value 	25 A

• at AC rated value	25 A
Main circuit	
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	
• at AC-23 A at 240 V rated value	5 kW
 at AC-23 A at 400 V rated value 	10 kW
 at AC-23 A at 440 V rated value 	9.5 kW
 at AC-23 A at 690 V rated value 	10 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	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
EMERGENCY OFF switch	No
 safety switch 	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
product feature can be locked into OFF position	Yes
accessories	Yes
accessories product extension optional	
accessories product extension optional • motor drive	No
accessories product extension optional • motor drive • voltage trigger	No No
accessories product extension optional • motor drive	No
accessories product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts	No No
accessories product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts	No No 2
accessories product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum	No No 2 2 0
accessories product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum	No No 2 2 0 3
accessories product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks	No No 2 2 0
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accessories product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum	No 2 2 0 3 4 8 mm
accessories product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V by combination switch + gG fuse maximum	No No 2 2 0 3 4 8 mm 50 kA 3.5 kA
accessories product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V by combination switch + gG fuse maximum	No No 2 2 0 3 4 8 mm 50 kA 3.5 kA 3.5 kA
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accessories product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V by combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 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 <td< td=""><td>No No 2 2 2 0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 3.5 kA 4 kA 2.s 4 kA 2.s 4 kA 2.s 4 kA 2.s</td></td<>	No No 2 2 2 0 3 4 8 mm 50 kA 3.5 kA 3.5 kA 3.5 kA 4 kA 2.s 4 kA 2.s 4 kA 2.s 4 kA 2.s
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according UL	
operational current at AC according to UL 508/UL 60947- 4-1 rated value	25 A
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	10
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	15
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
Connections	
AWG number as coded connectable conductor cross section solid	
• maximum	8
• minimum	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (1,516mm²)
finely stranded with core end processing	1x (1,510mm ²)
 stranded type of connectable conductor cross-sections for auxiliary 	1x (1,516mm²)
contacts ● solid	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²
• stranded	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
type of electrical connection	······································
for main current circuit	box terminal
 for auxiliary contacts 	connection terminals
Mechanical Design	
Mechanical Design height	84 mm
height width	67 mm
height width depth	67 mm 92.5 mm
height width depth type of device	67 mm 92.5 mm fixed mounting
height width depth type of device fastening method	67 mm 92.5 mm
height width depth type of device fastening method fastening method	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version
height width depth type of device fastening method fastening method • 4-hole front mounting	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No 385 g
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No 385 g -25 °C
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No 385 g -25 °C
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No 385 g -25 °C 55 °C
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No 385 g -25 °C 55 °C -25 °C
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum • maximum	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No 385 g -25 °C 55 °C -25 °C 55 °C 55 °C
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum	67 mm 92.5 mm fixed mounting Built-in unit fixed-mounted version Yes No No 385 g -25 °C 55 °C -25 °C

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other

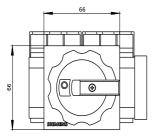
Miscellaneous

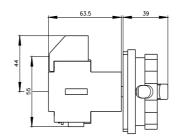
Environmental Confirmations

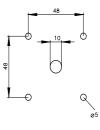
Further information

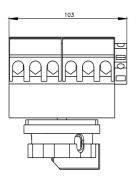
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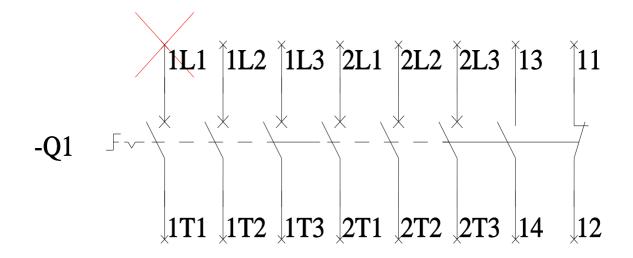
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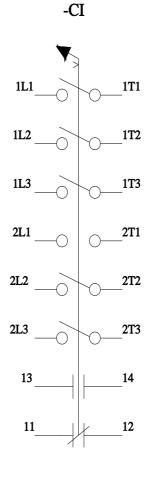












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