SIEMENS

Data sheet

3LD2154-2EP51



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, 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
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	4
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

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Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value 50 kA let-through current with closed switch 50 kA • at 240 V for combination switch + gG fuse maximum 3.5 kA • at 440 V for combination switch + gG fuse maximum 3.5 kA • at 690 V for combination switch + gG fuse maximum 4 kA • at 690 V for combination switch + gG fuse maximum 4 kA • at 240 V for combination switch + gG fuse maximum 4 kA • at 240 V for combination switch + gG fuse maximum 4 kA2.s • at 240 V for combination switch + gG fuse maximum 4 kA2.s • at 440 V for combination switch + gG fuse maximum 4 kA2.s • at 690 V for combination switch + gG fuse maximum 4 kA2.s • at 690 V for combination switch + gG fuse maximum 4 kA2.s • at 690 V for combination switch + gG fuse maximum 4 kA2.s • at 690 V for combination switch + gG fuse maximum 4 kA2.s • 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: 10 A	attachable maximum	
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permissibleI2t value with closed switchI2t value with closed switchG fuse maximumat 240 V for combination switch + gG fuse maximum4 kA2.sat 440 V for combination switch + gG fuse maximum4 kA2.sat 690 V for combination switch + gG fuse maximum4 kA2.sdesign of the fuse link	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	4 8 mm 50 kA 3.5 kA
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 at 240 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 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A 	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 for combination switch + gG fuse maximum	4 8 mm 50 kA 3.5 kA 3.5 kA
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required 	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 for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible	4 8 mm 50 kA 3.5 kA 3.5 kA
 at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit for short-circuit protection of the auxiliary switch for short-circuit protection of the auxiliary switch fuse gL/gG: 10 A 	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 for combination switch + gG fuse maximum permissible I2t value with closed switch	4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA
design of the fuse link • for short-circuit protection of the main circuit fuse gL/gG: 25 A • for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A	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 for combination switch + gG fuse maximum permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum	4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA
 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 	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 permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum	4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA
• for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A	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 for combination switch + gG fuse maximum permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 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	4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 4 kA
·	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 for combination switch + gG fuse maximum permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum o at 440 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 690 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 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 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 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 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 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 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 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 combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination sw	4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA 2.s 4 kA2.s 4 kA2.s
	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 for combination switch + gG fuse maximum permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 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 690 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 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 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 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 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 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 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 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 combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination sw	4 8 mm 50 kA 3.5 kA 3.5 kA 4 kA2.s 4 kA2.s 4 kA2.s 1 kA2.s 1 kA2.s 1 kA2.s 1 kA2.s 1 kA2.s

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 (1,516mm ²)
 finely stranded with core end processing 	1x (1,510mm ²)
• stranded	1x (1,516mm²)
type of connectable conductor cross-sections for auxiliary	
contacts	0 (0.75
solid	2x (0.75 2.5 mm ²), 1x 4 mm ²
 finely stranded with core end processing 	2x (0.75 1.5 mm ²), 1x 2.5 mm ²
• stranded	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	hey terminal
for main current circuit	box terminal
 for auxiliary contacts 	connection terminals
Mechanical Design	
height	84 mm
height width	67 mm
height width depth	
height width depth type of device	67 mm 116.5 mm fixed mounting
height width depth type of device fastening method	67 mm 116.5 mm
height width depth type of device fastening method fastening method	67 mm 116.5 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 116.5 mm fixed mounting Built-in unit fixed-mounted version No
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment	67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes
height width depth type of device fastening method fastening method • 4-hole front mounting	67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment	67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes
height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting	67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No 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	67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No 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 116.5 mm fixed mounting Built-in unit fixed-mounted version No 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 ambient temperature during operation	67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 262 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 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 262 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 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 262 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 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 262 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 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 262 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	67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 262 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	67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 262 g -25 °C 55 °C -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 • maximum General Product Approval	67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 262 g -25 °C 55 °C -25 °C 55 °C







Special Test Certificate





Marine / Shipping



Miscellaneous

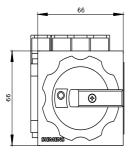
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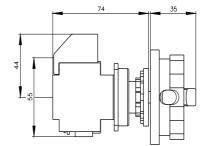
Environmental Confirmations

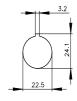
Further information

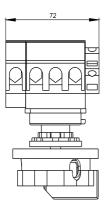
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2154-2EP51 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2154-2EP51 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2154-2EP51 CAx-Online-Generator http://www.siemens.com/cax Tender specifications

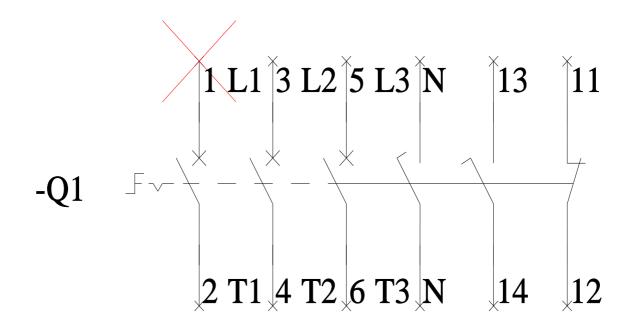
http://www.siemens.com/specifications



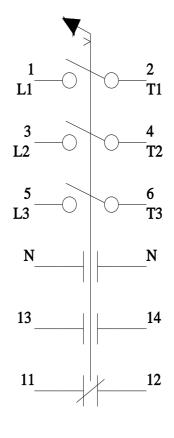








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