## **SIEMENS**

Data sheet 3LD2504-3VK51



SENTRON, Switch disconnector 3LD, main switch, 6-pole, lu: 63 A, Operating power / at AC-23 A at 400 V: 22 kW, front-mounted, rotary operating mechanism, black, 4-hole mounting of the handle

Model	
product brand name	SENTRON
product designation	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	3
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	4.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	63 A
• at AC-21 A at 240 V rated value	63 A
• at AC-21 A at 400 V rated value	63 A
• at AC-21 A at 440 V rated value	63 A

operating power  at AC-23 A at 240 V rated value  at AC-23 A at 440 V rated value  at AC-33 At 490 V rated value  at AC-3 at 690 V rated value  at AC-3 at 690 V rated value  at AC-3 at 690 V rated value  be at AC-3 at 690 V rated value  at Auxiliary circuit  number of CO contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  at Canal Manual Manu	a at AC 22 A at 400 V rated value	42.0
* alt AC-23 A alt 40 V rated value * alt AC-23 A alt 40 V rated value * alt AC-23 A alt 40 V rated value * alt AC-23 A alt 40 V rated value * alt AC-23 A alt 40 V rated value * alt AC-3 alt 40 V rated value * book value valu	at AC-23 A at 400 V rated value	43 A
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* at AC-3 at 890 V rated value  Auxiliary circuit  number of OC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 operating voltage of auxiliary contacts and continuous current of the auxiliary contacts and continuous current of the auxiliary contact at act maximum continuous current of the auxiliary contact at act maximum continuous current of the auxiliary swith rated value  500 V  Suitability  Suitability for use main switch 1 yes suitability for use main switch 1 yes suitability for use switch disconnector 2 yes suitability for use safety switch 2 yes suitability for use main switch 2 yes suitability for use main switch 2 yes suitability for use maintenance/repair switch 2 yes suitability for use safety switch 2 yes suitability for use maintenance/repair switch 2 yes suitability for use safety switch 3 yes  Product details  product feature can be locked into OFF position 2 * voltage trigger No number of connectable NC contacts for auxiliary contacts atcachable maximum number of connectable NC contacts for auxiliary contacts atcachable maximum 3 and a secondary switch 3 * a secondary switch 4 * a secondary switch 4 * a secondary switch 5 * a secondary 5 * a secondar		
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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  1et-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 490 V for combination switch + gG fuse maximum  • at 240 V for combination switch + gG fuse maximum  permissible  12t value with closed switch  • 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  • for short-circuit protection of the main circuit required  • for short-circuit protection of the main circuit required  • for short-circuit protection of the maximy switch required  operational current of upstream fuse rated value  according UL  operating voltage at AC at 50/60 Hz according to UL 508/UL  active power [hp] at AC at 480 V according to UL 508/UL  4 8 mm  4 8 mm  4 8 mm  5 8 mm  6 8 A  6 8 A  6 8 mm  6 8 A  6 8 A  6 8 mm  6 8 A  6 8 mm  6 8 mm  6 8 A  6 8 mm  6 8 mm  6 8 mm  6 8 A  6 8 A  6 8 mm  6 8 A  6 8 A  6 8 mm  6 8 A  6 8 mm  6 8 A  6 8 MA  6 8 mm  6 8 A  6 8 mm  6 8 A  6 8 mm  6 8 mm  6 8 A  6 8 mm  6 8 mm  6 8 A  6 8 mm  6		0
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conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  10 t-through current with closed switch  • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum permissible  12 t value with closed switch • at 240 V for combination switch + gG fuse maximum permissible  12 t value with closed switch • at 240 V for combination switch + gG fuse maximum 21 kA2.s • at 440 V for combination switch + gG fuse maximum 21 kA2.s • at 440 V for combination switch + gG fuse maximum 21 kA2.s • at 690 V for combination switch + gG fuse maximum 21 kA2.s  design of the fuse link • for short-circuit protection of the main circuit required of roshort-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the auxiliary switch required of sor short-circuit protection of the switch short-circuit protection of the switch short-circuit p	hasp thickness of the bracket locks	4 8 mm
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  let value with closed switch • at 240 V for combination switch + gG fuse maximum permissible  let value with closed switch • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum 21 kA2.s • at 690 V for combination switch + gG fuse maximum 21 kA2.s • at 690 V for combination switch + gG fuse maximum 41 kA2.s • at 690 V for combination switch + gG fuse maximum 50 kA  design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL  40	Short circuit	
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  l2t value with closed switch  • 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 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  • 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  operational current of upstream fuse rated value  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL  40		
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 bermissible  I2t value with closed switch at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at	at 690 V by gG fuse rated value	50 kA
<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>12t value with closed switch</li> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>t kA2.s</li> <li>at 690 V for short-circuit protection of the main circuit required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>operational current of upstream fuse rated value</li> <li>according UL</li> <li>operational current at AC according to UL 508/UL 60947-4-1</li> <li>according voltage at AC at 50/60 Hz according to UL 508/UL 600 V</li> <li>600 V</li> <li>active power [hp] at AC at 480 V according to UL 508/UL 40</li> </ul>		
at 690 V for combination switch + gG fuse maximum permissible  12t value 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 c		6 kA
permissible    I2t value with closed switch	• at 440 V for combination switch + gG fuse maximum	6 kA
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>21 kA2.s</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>21 kA2.s</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>operational current of upstream fuse rated value</li> <li>according UL</li> <li>operational current at AC according to UL 508/UL 60947-4-1 rated value</li> <li>operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value</li> <li>active power [hp] at AC at 480 V according to UL 508/UL</li> </ul>	· · · · · · · · · · · · · · · · · · ·	6 kA
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> <li>at 690 V for combination switch + gG fuse maximum</li> <li>21 kA2.s</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>operational current of upstream fuse rated value</li> <li>according UL</li> <li>operational current at AC according to UL 508/UL 60947-4-1 rated value</li> <li>operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value</li> <li>active power [hp] at AC at 480 V according to UL 508/UL 40</li> </ul>	I2t value with closed switch	
at 690 V for combination switch + gG fuse maximum  21 kA2.s  design of the fuse link  a for short-circuit protection of the main circuit required  after gL/gG: 63 A  a for short-circuit protection of the auxiliary switch required  according UL  operational current of upstream fuse rated value  operational current at AC according to UL 508/UL 60947-4-1  rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL  active power [hp] at AC at 480 V according to UL 508/UL  40	• at 240 V for combination switch + gG fuse maximum	21 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  operational current of upstream fuse rated value  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL  operating voltage at AC at 480 V according to UL 508/UL  operating voltage at AC at 480 V according to UL 508/UL  operating voltage at AC at 480 V according to UL 508/UL  operating voltage at AC at 480 V according to UL 508/UL  operating voltage at AC at 480 V according to UL 508/UL  operating voltage at AC at 480 V according to UL 508/UL  operating voltage at AC at 480 V according to UL 508/UL  operating voltage at AC at 480 V according to UL 508/UL  operating voltage at AC at 480 V according to UL 508/UL		21 kA2.s
for short-circuit protection of the main circuit required     for short-circuit protection of the auxiliary switch required     fuse gL/gG: 10 A      operational current of upstream fuse rated value      according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL  operating voltage at AC at 50/60 Hz according to UL 508/UL  active power [hp] at AC at 480 V according to UL 508/UL  40	• at 690 V for combination switch + gG fuse maximum	21 kA2.s
	-	
operational current of upstream fuse rated value  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 40		
operational current at AC according to UL 508/UL 60947-4-1 frated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 40		7 7
operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL  40	<u> </u>	63 A
rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 40		
60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 40	rated value	
		600 V
		40
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 50		50
short-time withstand current (SCCR) at 600 V according to 5 kA	short-time withstand current (SCCR) at 600 V according to	5 kA

UL 508/UL 60947-4-1	
continuous current of upstream fuse according to UL rated value	175 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	6
•	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (2,535mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (2.516 mm²)
• stranded	1x (2,535mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
type of electrical connection	
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	106 mm
width	90 mm
depth	110.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
4-hole front mounting	Yes
<ul> <li>front mounting with central attachment</li> </ul>	No
rail mounting	No
net weight	744 g
Environmental conditions	
ambient temperature during operation	
ambient temperature during operation  • minimum	-25 °C
	-25 °C 55 °C
• minimum	
minimum     maximum	
minimum     maximum  ambient temperature during storage	55 °C

## **General Product Approval**







Confirmation





Marine / Shipping other Environment



**Miscellaneous** 

Confirmation

**Environmental Confirmations** 

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

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2504-3VK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2504-3VK51

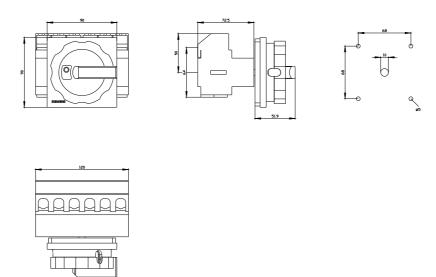
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2504-3VK51">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2504-3VK51</a>

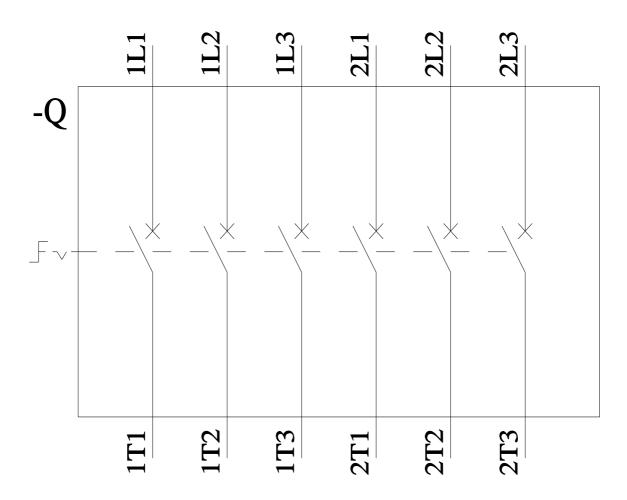
**CAx-Online-Generator** 

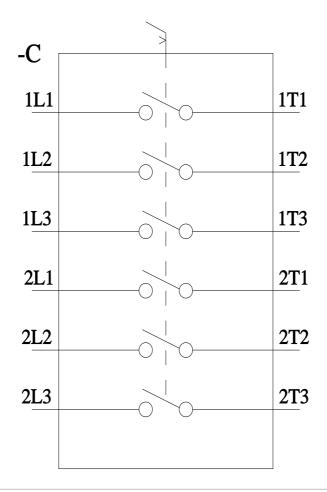
http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications







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