

SENTRON, Switch disconnecter 3LD, change-over switch, 3-pole, Iu: 100 A, Operating power / at AC-23 A at 400 V: 37 kW, front-mounted, knob-operated mechanism, black, 4-hole mounting of the handle



Model	
product brand name	SENTRON
product designation	3LD Switch disconnecter
design of the product	Selector switch
display version / for switch position indicator manual operation	1 ON - 0 OFF - 2 ON
design of the actuating element	selector switch
design of handle	knob-operated 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 disconnecter	4
mechanical service life (switching cycles) / typical	100 000
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	64 kA2.s
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	64 kA2.s
operating frequency / maximum	50 1/h
Voltage	
insulation voltage / rated value	690 V
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	7.5 W
• per conductor / typical	8 W
Current	
operational current	
• at 40 °C / rated value	100 A
• at 45 °C / rated value	100 A
• at 50 °C / rated value	100 A
• at 55 °C / rated value	100 A

<ul style="list-style-type: none"> • at AC / rated value 	100 A
<ul style="list-style-type: none"> • at AC-23 A / at 400 V / rated value 	70 A
<ul style="list-style-type: none"> • at AC-21 / at 690 V / rated value 	100 A
<ul style="list-style-type: none"> • at AC-21 A / at 240 V / rated value 	100 A
<ul style="list-style-type: none"> • at AC-21 A / at 440 V / rated value 	100 A
operational current / of upstream fuse / rated value	100 A
let-through current / with closed switch	
<ul style="list-style-type: none"> • at 440 V / for combination switch + gG fuse / maximum 	10 kA
<ul style="list-style-type: none"> • at 690 V / for combination switch + gG fuse / maximum permissible 	10 kA
Main circuit	
operating power	
<ul style="list-style-type: none"> • at AC-23 A / at 240 V / rated value 	18.5 kW
<ul style="list-style-type: none"> • at AC-23 A / at 400 V / rated value 	37 kW
<ul style="list-style-type: none"> • at AC-23 A / at 440 V / rated value 	37 kW
<ul style="list-style-type: none"> • at AC-23 A / at 690 V / rated value 	30 kW
<ul style="list-style-type: none"> • at AC-3 / at 240 V / rated value 	18.5 kW
<ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value 	30 kW
<ul style="list-style-type: none"> • at AC-3 / at 690 V / rated value 	22 kW
operational current / rated value	100 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	
<ul style="list-style-type: none"> • main switch 	Yes
<ul style="list-style-type: none"> • switch disconnecter 	Yes
<ul style="list-style-type: none"> • EMERGENCY OFF switch 	No
<ul style="list-style-type: none"> • safety switch 	Yes
<ul style="list-style-type: none"> • maintenance/repair switch 	Yes
Appearance	
color / of the actuating element	black
Product details	
product feature	
<ul style="list-style-type: none"> • can be locked into OFF position 	No
product extension / optional	
<ul style="list-style-type: none"> • motor drive 	No
<ul style="list-style-type: none"> • voltage trigger 	No
Short circuit	
conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> • at 690 V / by gG fuse / rated value 	50 kA
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	100 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	60
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	75
short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	10 kA
continuous current / of upstream fuse / according to UL / rated value	200 A
type of fuse / according to UL	RK5

Number	
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	2
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0

Connections	
AWG number / as coded connectable conductor cross section / solid	
<ul style="list-style-type: none"> • maximum • minimum 	 1 12
type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	 1x (4...50mm ²) 1x (4...35mm ²) 1x (4...50mm ²)
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	 lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²) lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ² 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	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary contacts 	 box terminal connection terminals

Requirements	
design of the fuse link	
<ul style="list-style-type: none"> • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required 	 fuse gL/gG: 100 A fuse gL/gG: 10 A

Mechanical Design	
height	110 mm
width	141 mm
depth	120.5 mm
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul style="list-style-type: none"> • 4-hole front mounting • front mounting with central attachment • rail mounting 	 Yes No No
net weight	956 g

Environmental conditions	
ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum • maximum 	 -25 °C 55 °C
ambient temperature / during storage / minimum	-25 °C

General Product Approval



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	Declaration of Conformity	Test Certificates	Marine / Shipping	other
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[Special Test Certificate](#)



[Environmental Confirmations](#)

other

[Miscellaneous](#)

Further information

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=3LD2724-7UK01>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2724-7UK01>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2724-7UK01

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



