# **SIEMENS**

Data sheet 3LD2084-2GP21



SENTRON switch disconnector 3LD in molded-plastic enclosure, repair and maintenance switch with EMC plate, 3-pole lu: 16A, AC23A 400V at 50/60Hz: 7,5kW, used with frequency converter: AC20 400V at 0-550Hz: 4kW, 1NO + 1NC 20-150ms leading, molded-plastic encapsulation for metric cable gland, knob-operated mechanism, black, lockable in 0- and I-position, incl. cable shield clamps

Model	
product brand name	SENTRON
Product designation	3LD Switch disconnector
Design of the product	Switch
Display version / for switch position indicator manual operation	1 ON - 0 OFF
Design of the operating mechanism	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	Molded-plastic enclosure for metric threaded joint
Size of switch disconnector	1
Electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
• between converter and motor / when used as repair switch / at AC-20 A / at 690 V / at 0-550 Hz	100 000

I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	2.5 kA2.s
Let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 kA2.s
Mechanical service life (switching cycles) / typical	100 000
Operating frequency / maximum	50 1/h
Voltage	
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	6 kV
Operating current / at AC / rated value	16 A
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
• between converter and motor / at AC / at 0-550 Hz / rated value	480 V
Protection class	
Protection class IP	IP65
protection class IP / on the front	IP65
Dissipation	
Power loss [W]	
<ul> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	0.5 W
	0.5 W
<ul> <li>Deconductor / typical</li> </ul>	U.J VV
per conductor / typical	0.5 W
Current	0.5 W
Current Operating current	
Current	9 A
Current Operating current  • at AC-23 A / at 690 V / rated value  • at AC-23 A / at 400 V / rated value	9 A 16 A
Current Operating current  • at AC-23 A / at 690 V / rated value	9 A
Current Operating current  • at AC-23 A / at 690 V / rated value  • at AC-23 A / at 400 V / rated value	9 A 16 A
Current 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	9 A 16 A 16 A 16 A
Current  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	9 A 16 A 16 A 16 A
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 A / at 240 V / rated value	9 A 16 A 16 A 16 A
Current  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 A / at 240 V / rated value  • at AC-21 A / at 440 V / rated value	9 A 16 A 16 A 16 A 16 A
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 A / at 240 V / rated value  • at AC-21 A / at 440 V / rated value  • at AC-22 A / at 240 V / rated value	9 A 16 A 16 A 16 A 16 A 16 A
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 A / at 240 V / rated value  • at AC-21 A / at 440 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	9 A 16 A 16 A 16 A 16 A 16 A 16 A
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 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	9 A 16 A 16 A 16 A 16 A 16 A 16 A 16 A
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 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	9 A 16
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 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 440 V / rated value  Operating current / of upstream fuse / rated value	9 A 16
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 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 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 /	9 A 16
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 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 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 /	9 A 16

340 A

Main circuit	
Operating frequency	
• initial value	50 Hz
• Full-scale value	60 Hz
Operating frequency / between converter and motor /	
when used as repair switch	
● initial value	0 Hz
Full-scale value	550 Hz
Operating power	
• at AC-23 A / at 240 V / rated value	4 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	7.5 kW
• at AC-23 A / at 440 V / rated value	7.5 kW
• at AC-23 A / at 690 V / rated value	7.5 kW
• at AC-3 / at 240 V / rated value	3 kW
• at AC-3 / at 400 V / rated value	5.5 kW
• at AC-3 / at 690 V / rated value	5.5 kW
Operating active power [W] / between converter and	
motor / when used as repair switch / at AC-20 A	
● at 400 V / at 0-550 Hz / rated value	4 kW
Operating current / rated value	16 A
Continuous current / between converter and motor /	
when used as repair switch / at AC-20	
• at 230 V / rated value	10.4 A
● at 400 V / rated value	10.2 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	600 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	No
maintenance/repair switch	Yes
- r	

Appearance	
Color / of the actuating element	black
Product details	
Product details     Product function / can be locked into OFF	Yes
position	
<ul> <li>Product feature / can be locked in ON position</li> </ul>	Yes
Number of bracket locks / maximum	3
Hasp thickness / of the bracket locks / minimum	4.5 mm
Hasp thickness / of the bracket locks / maximum	8.5 mm
Special product feature	inclusive EMC shield plate
Product extension / optional	
• motor drive	No
<ul> <li>Voltage trigger</li> </ul>	No
Short circuit	
Conditional short-circuit current / with line-side fuse	
protection	
• at 690 V / by gG fuse / rated value	50 kA
Number	
Number of connectable NC contacts / for auxiliary	2
contacts / attachable / maximum	
Number of connectable NO contacts / for auxiliary	4
contacts / attachable / maximum	
Number of connectable CO contacts / for auxiliary	0
contacts / attachable / maximum	
Connections	
AWG number / as coded connectable conductor	
cross section / solid	40
• maximum	10
• minimum	18
Type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16mm²)
finely stranded / with core end processing	1x (14mm²)
stranded     stranded	1x (14mm)  1x (16mm²)
Type of connectable conductor cross-sections / for	17 (1.301111)
auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front
	auxiliary switch 1x (0,75 2,5mm²)
<ul> <li>finely stranded / with core end processing</li> </ul>	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

## Requirements

Design of the fuse link

• for short-circuit protection of the main circuit / required

fuse gL/gG: 20 A

• for short-circuit protection of the auxiliary switch

/ required

fuse gL/gG: 10 A

Mechanical Design	
Height	164 mm
Width	100 mm
Depth	117 mm
Mounting type	Complete unit in enclosure with EMC shield plate
<ul> <li>Mounting type / front mounting with 4-hole attachment</li> </ul>	No
<ul> <li>Mounting type / front mounting with central attachment</li> </ul>	Yes
<ul><li>mounting type / rail mounting</li></ul>	No
net weight	403 g

Ambient temperature / during operation

-25 °C • minimum

55 °C • maximum

Ambient temperature / during storage / minimum -25 °C

## Certificates

S • reference code / acc. to DIN EN 61346-2

• Reference code / acc. to DIN EN 81346-2 SF

**Declaration of Conformity Test Certificates** 



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=3LD2084-2GP21

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2084-2GP21

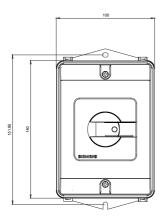
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

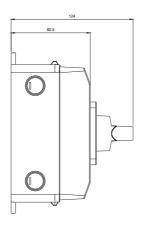
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2084-2GP21

## **CAx-Online-Generator**

http://www.siemens.com/cax

**Tender specifications** http://www.siemens.com/specifications





3LD2084-2GP21, 3LD2184-2GP 3LD2284-2GP21

