SIEMENS

Data sheet 3LD2284-2GP21



SENTRON switch disconnector 3LD in molded-plastic enclosure, repair and maintenance switch with EMC plate, 3-pole lu: 32A, AC23A 400V at 50/60Hz: 11,5kW, used with frequency converter: AC20 400V at 0-550Hz: 7,5kW, 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	2
mechanical service life (switching cycles)	
• typical	100 000
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	9 kA2.s
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	9 kA2.s
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	32 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	690 V
Protection class	
protection class IP	IP65
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 	1.8 W
• per conductor / typical	1.8 W
Current	
operating current	
operating current • at AC-23 A / at 690 V / rated value	13 A
	13 A 22 A
• at AC-23 A / at 690 V / rated value	
at AC-23 A / at 690 V / rated valueat AC-23 A / at 400 V / rated value	22 A
 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 	22 A 32 A
 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 	22 A 32 A 32 A
 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 	22 A 32 A 32 A 32 A
 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 	22 A 32 A 32 A 32 A 32 A
 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 440 V / rated value 	22 A 32 A 32 A 32 A 32 A 32 A
 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 440 V / rated value at AC-23 A / at 240 V / rated value 	22 A 32 A
 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 440 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value 	22 A 32 A
 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 440 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 	22 A 32 A
 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 440 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value 	22 A 32 A
 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 440 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value 	22 A 32 A

Inflited to 13/Tated value	0.071
• at 690 V / limited to 1 s / rated value	640 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	6 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	11.5 kW
• at AC-23 A / at 440 V / rated value	11.5 kW
• at AC-23 A / at 690 V / rated value	11.5 kW
• at AC-3 / at 240 V / rated value	5.5 kW
• at AC-3 / at 400 V / rated value	9.5 kW
• at AC-3 / at 690 V / rated value	9.5 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	7.5 kW
• at 690 V / at 0-550 Hz / rated value	15 kW
operating current / rated value	32 A
continuous current / between converter and motor / when used as repair switch / at AC-20	
• at 230 V / rated value	22 A
• at 400 V / rated value	18 A
• at 690 V / rated value	19 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

640 A

• limited to 1 s / rated value

 EMERGENCY OFF switch 	No	
safety switch	No	
maintenance/repair switch	Yes	
Appearance		
color / of the actuating element	black	
Product details		
 product function / can be locked into OFF position 	Yes	
 product feature / can be locked in ON position 	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	
 voltage trigger 	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 contacts / attachable / maximum	2	
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4	
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0	
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 (1,510mm²)	
• stranded	1x (1,516mm²)	
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 processingstranded	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² 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 • for auxiliary contacts	box terminal connection terminals

	em	

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: 40 A

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
mounting type	
 front mounting with 4-hole attachment 	No
• front mounting with central attachment	Yes
• rail mounting	No
net weight	403 g

Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage / minimum	-25 °C

Certificates

reference code

• acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 S

SF

General Product Approv-	Declaration of Conform-	Test Certificates
al	ity	





Miscellaneous

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=3LD2284-2GP21

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2284-2GP21

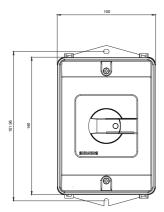
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2284-2GP21

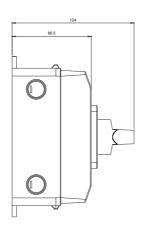
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





3LD2084-2GP21, 3LD2184-2GP

