SIEMENS

Data sheet 3LD2886-2GP21



SENTRON switch disconnector 3LD in molded-plastic enclosure, repair and maintenance switch with EMC plate, 3-pole lu: 125A, AC23A 400V at 50/60Hz: 45kW, used with frequency converter: AC20 400V at 0-550Hz: 45kW, 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 and hose 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	4
mechanical service life (switching cycles)	
• typical	100 000
electrical endurance (switching cycles)	
● at AC-23 A / at 690 V	6 000

repair switch / at AC-20 A / at 690 V / at 0-550 Hz	
I2t value / with closed switch / at 690 V / for 104 kA2.s combination switch + gG fuse / maximum	
let-through I2t value / with closed switch / at 440 V / 104 kA2.s for combination switch + gG fuse / maximum	
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 125 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 	
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 12 W	
operating state / per pole	
• per conductor / typical 12 W	
Current	
operating current	
• at AC-23 A / at 690 V / rated value 39 A	
• at AC-23 A / at 400 V / rated value 80 A	
• at AC-22 A / at 690 V / rated value 125 A	
• at AC-21 / at 690 V / rated value 125 A	
• at AC-21 A / at 240 V / rated value 125 A	
• at AC-21 A / at 440 V / rated value 125 A	
• at AC-22 A / at 240 V / rated value 125 A	
• at AC-22 A / at 440 V / rated value 125 A	
• at AC-23 A / at 240 V / rated value 80 A	
• at AC-23 A / at 440 V / rated value 80 A	
operating current / of upstream fuse / rated value 125 A	
let-through current / with closed switch	
• at 440 V / for combination switch + gG fuse /	
maximum	
• at 690 V / for combination switch + gG fuse / 10 kA maximum permissible	
short-time withstand current (Icw)	

• limited to 1 s / rated value	2 000 A
• at 690 V / limited to 1 s / rated value	2 000 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	22 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	45 kW
• at AC-23 A / at 440 V / rated value	45 kW
• at AC-23 A / at 690 V / rated value	37 kW
• at AC-3 / at 240 V / rated value	22 kW
• at AC-3 / at 400 V / rated value	37 kW
• at AC-3 / at 690 V / rated value	30 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	45 kW
• at 690 V / at 0-550 Hz / rated value	55 kW
operating current / rated value	125 A
continuous current / between converter and motor /	
when used as repair switch / at AC-20	
• at 230 V / rated value	80 A
• at 400 V / rated value	90 A
• at 690 V / rated value	62 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 /	600 V
maximum	
continuous current / of the auxiliary contact / rated	10 A
value	
insulation voltage / of the auxiliary switch / rated	500 V
value	
Suitability	
suitability for use	
• main switch	Yes
switch disconnector	Yes

EMERGENCY OFF switch	No
safety switch	No
maintenance/repair switch	Yes
·	
Appearance	block
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	20 kA
Number	
number of connectable NC contacts / for auxiliary	2
contacts / attachable / maximum	
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4
number of connectable CO contacts / for auxiliary	0
contacts / attachable / maximum	
Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	1
· maining	12
• minimum	
minimum type of connectable conductor cross-sections / for copper conductor	
type of connectable conductor cross-sections / for	1x (450mm²)
type of connectable conductor cross-sections / for copper conductor	
type of connectable conductor cross-sections / for copper conductor • solid	1x (450mm²)
type of connectable conductor cross-sections / for copper conductor • solid • finely stranded / with core end processing	1x (450mm²) 1x (435mm²)

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 	box terminal
• for auxiliary contacts	connection terminals

Requirements

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: 125 A

fuse gL/gG: 10 A

Mechanical Design	
height	302 mm
width	212 mm
depth	181 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	1 950 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=3LD2886-2GP21

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2886-2GP21

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2886-2GP21

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







