



SETRON switch disconnecter 3LD in molded-plastic enclosure , repair and maintenance switch with EMC plate, 6-pole Iu: 25A, AC23A 400V at 50/60Hz: 9,5kW, used with frequency converter: AC20 400V at 0-550Hz: 5,5kW, 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	SETRON
product designation	3LD Switch disconnecter
design of the product	Switch
display version / for switch position indicator manual operation	1 ON - 0 OFF
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	6
number of poles / note	PE isolated from cable shield
type of device	fixed mounting
type of switch	Molded-plastic enclosure for metric threaded joint
size of switch disconnecter	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
I _{2t} value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	4 kA ² .s
let-through I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA ² .s
operating frequency / maximum	50 1/h
Voltage	
insulation voltage / rated value	690 V
surge voltage resistance / rated value	6 kV
operating voltage	
• between converter and motor / at AC / at 0-550 Hz / rated value	690 V
Protection class	
protection class IP	IP65
degree of protection NEMA rating	1, 3R, 4X
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	1.1 W
• per conductor / typical	1 W

Current	
operational current	
<ul style="list-style-type: none"> at AC / rated value at AC-23 A / at 400 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 	25 A 20 A 25 A 25 A 25 A
operational current / of upstream fuse / rated value	25 A
let-through current / with closed switch	
<ul style="list-style-type: none"> at 440 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible 	3.5 kA 4 kA
Main circuit	
operating frequency / between converter and motor / when used as repair switch	
<ul style="list-style-type: none"> initial value full-scale value 	0 Hz 550 Hz
operating power	
<ul style="list-style-type: none"> at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value at AC-23 A / at 690 V / rated value at AC-3 / at 240 V / rated value at AC-3 / at 400 V / rated value at AC-3 / at 690 V / rated value 	5 kW 9.5 kW 10 kW 4 kW 8 kW 7.5 kW
operating active power [W] / between converter and motor / when used as repair switch / at AC-20 A	
<ul style="list-style-type: none"> at 400 V / at 0-550 Hz / rated value at 690 V / at 0-550 Hz / rated value 	5.5 kW 11 kW
operational current / rated value	25 A
continuous current / between converter and motor / when used as repair switch / at AC-20	
<ul style="list-style-type: none"> at 230 V / rated value at 400 V / rated value at 690 V / rated value 	17.5 A 13.2 A 14 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	
<ul style="list-style-type: none"> main switch switch disconnecter EMERGENCY OFF switch safety switch maintenance/repair switch 	Yes Yes No No Yes
Appearance	
color / of the actuating element	black
Product details	
product feature	
<ul style="list-style-type: none"> can be locked into OFF position can be locked in ON position 	Yes 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	

<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	25 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	10
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	15
short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	5 kA
continuous current / of upstream fuse / according to UL / rated value	50 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	4
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 	8
<ul style="list-style-type: none"> • minimum 	14
type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> • solid 	1x (1,5...16mm ²)
<ul style="list-style-type: none"> • finely stranded / with core end processing 	1x (1,5...10mm ²)
<ul style="list-style-type: none"> • stranded 	1x (1,5...16mm ²)
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> • solid 	lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²)
<ul style="list-style-type: none"> • finely stranded / with core end processing 	lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²
<ul style="list-style-type: none"> • stranded 	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 	box terminal
<ul style="list-style-type: none"> • for auxiliary contacts 	connection terminals
Requirements	
design of the fuse link	
<ul style="list-style-type: none"> • for short-circuit protection of the main circuit / required 	fuse gL/gG: 25 A
<ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
Mechanical Design	
height	199 mm
width	146 mm
depth	149 mm
fastening method	Complete unit in enclosure with EMC shield plate
fastening method	
<ul style="list-style-type: none"> • 4-hole front mounting 	No
<ul style="list-style-type: none"> • front mounting with central attachment 	Yes
<ul style="list-style-type: none"> • rail mounting 	No
net weight	760 g

Environmental conditions

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

General Product Approval	Declaration of Conformity	Test Certificates
---------------------------------	----------------------------------	--------------------------

[Confirmation](#)



[UK Declaration of Conformity](#)

[Miscellaneous](#)

other

[Miscellaneous](#)

[Environmental Confirmations](#)

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?mfb=3LD2185-5VD21>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2185-5VD21>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD2185-5VD21

CAX-Online-Generator

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

Tender specifications

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





