



SETRON switch disconnecter 3LD in molded-plastic enclosure , repair and maintenance switch with EMC plate, 3-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	Switch disconnecter
design of the product	Switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	Molded-plastic enclosure for metric threaded joint
design of the actuating element	selector switch
color of the actuating element	black
design of handle	knob-operated mechanism, black
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
number of poles note	PE isolated from cable shield
size of switch disconnecter	2
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating 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
operating frequency maximum	50 1/h
degree of pollution	3
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
Main circuit	
operating frequency between converter and motor when used as repair switch	
• initial value	0 Hz
• full-scale value	550 Hz
operational current	
• at AC-21 at 690 V rated value	25 A

• at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-23 A at 400 V rated value	25 A 25 A 25 A 20 A
operating power • 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 • at 400 V at 0-550 Hz rated value • at 690 V at 0-550 Hz rated value	5.5 kW 11 kW
continuous current between converter and motor when used as repair switch at AC-20 • 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 • main switch • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch	Yes Yes No No Yes
Product details	
product feature can be locked in ON position	Yes
special product feature	inclusive EMC shield plate
product feature can be locked into OFF position	Yes
accessories	
product extension optional • motor drive • voltage trigger	No No
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
number of bracket locks maximum	3
hasp thickness of the bracket locks	4.5 ... 8.5 mm
Short circuit	
conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value	50 kA
let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible	3.5 kA 3.5 kA 4 kA
I2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	4 kA2.s 4 kA2.s 4 kA2.s

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: 25 A fuse gL/gG: 10 A
operational current of upstream fuse rated value	25 A
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
Connections	
AWG number as coded connectable conductor cross section solid	
- maximum - minimum	8 14
type of connectable conductor cross-sections for copper conductor	
- solid - finely stranded with core end processing - stranded	1x (1,5...16mm ²) 1x (1,5...10mm ²) 1x (1,5...16mm ²)
type of connectable conductor cross-sections for auxiliary contacts	
- 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	
- for main current circuit - for auxiliary contacts	box terminal connection terminals
Mechanical Design	
height	164 mm
width	100 mm
depth	117 mm
type of device	fixed mounting
fastening method	Complete unit in enclosure with EMC shield plate
fastening method	
4-hole front mounting - front mounting with central attachment - rail mounting	No Yes No
net weight	403 g
Environmental conditions	
ambient temperature during operation	
- minimum - maximum	-25 °C 55 °C
ambient temperature during storage	
- minimum - maximum	-25 °C 55 °C
General Product Approval	
Declaration of Conformity	

[Confirmation](#)



Test Certificates	other	Environment
Miscellaneous	Miscellaneous	Confirmation
		Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3LD2184-2GP21>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2184-2GP21>

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

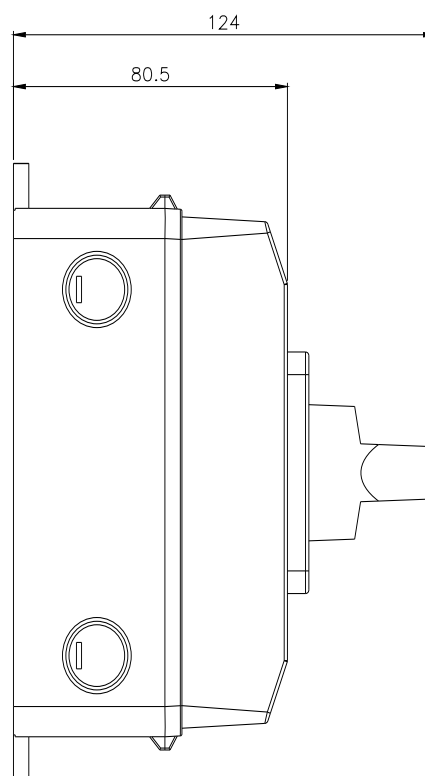
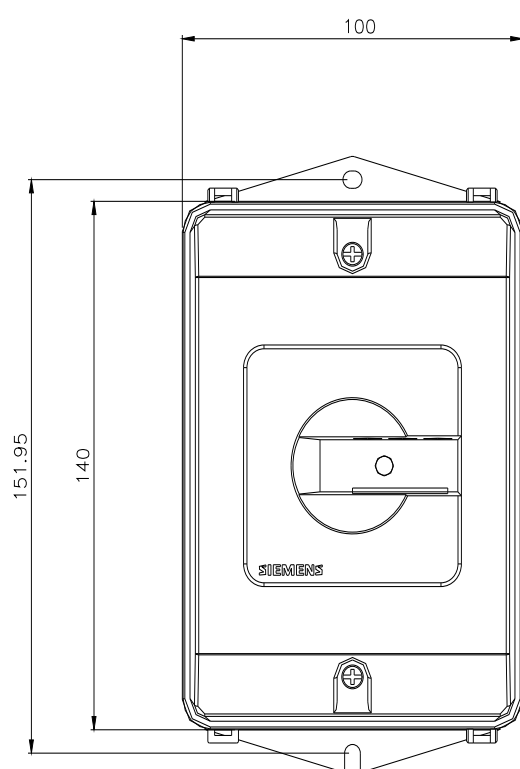
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2184-2GP21

CAX-Online-Generator

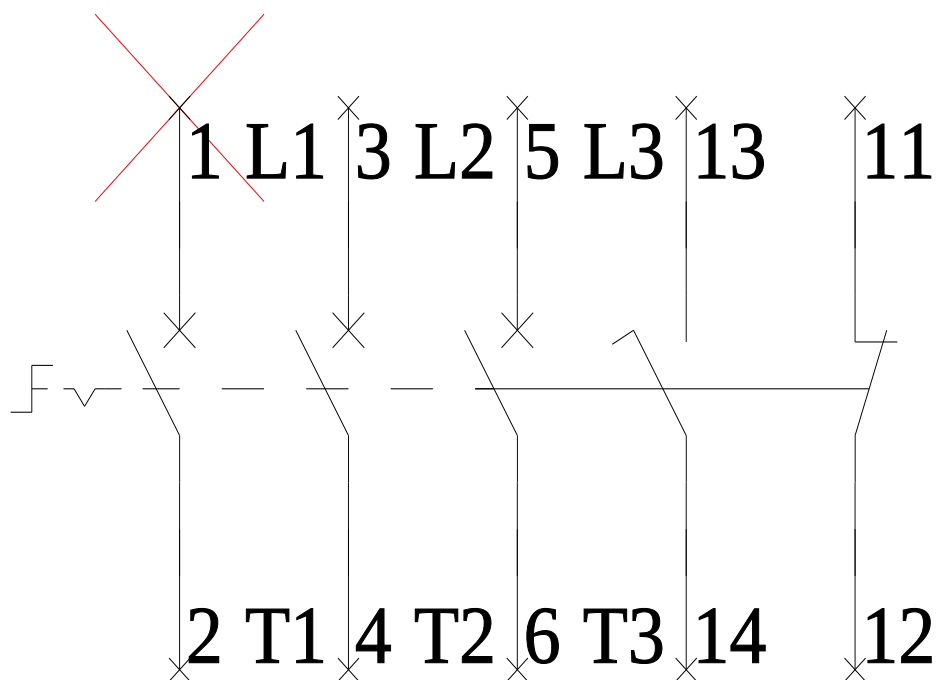
<http://www.siemens.com/cax>

Tender specifications

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



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