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, knoboperated mechanism, black, lockable in 0- and I-position, incl. cable shield clamps

Model	
product brand name	SENTRON
product designation	Switch disconnector
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 disconnector	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	
 at AC rated value 	690 V
 between converter and motor at AC at 0-550 Hz rated value 	690 V
operating frequency rated value	
• minimum	50 Hz
• maximum	60 Hz
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	1.8 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	32 A
at AC-21 A at 240 V rated value	32 A
• at AC-21 A at 400 V rated value	32 A
 at AC-21 A at 440 V rated value 	32 A
at AC-23 A at 400 V rated value	22 A
operating power	
 at AC-23 A at 240 V rated value 	6 kW
 at AC-23 A at 440 V rated value 	11.5 kW
 at AC-23 A at 690 V rated value 	12 kW
 at AC-3 at 240 V rated value 	5.5 kW
 at AC-3 at 400 V rated value 	10 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
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
Suitability	
suitability for use	
suitability for use • main switch	Yes
main switch	
main switchswitch disconnector	Yes
main switchswitch disconnectorEMERGENCY OFF switch	
 main switch switch disconnector EMERGENCY OFF switch safety switch 	Yes No No
 main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch 	Yes No
 main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details	Yes No No Yes
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position	Yes No No Yes Yes
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature	Yes No No Yes Yes inclusive EMC shield plate
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position	Yes No No Yes Yes
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories	Yes No No Yes Yes inclusive EMC shield plate
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional	Yes No No Yes Yes inclusive EMC shield plate Yes
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive	Yes No No Yes Yes inclusive EMC shield plate Yes
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger	Yes No No Yes Yes inclusive EMC shield plate Yes No No
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum	Yes No No Yes Yes inclusive EMC shield plate Yes No No O
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum	Yes No No Yes Yes inclusive EMC shield plate Yes No No 0 2
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks	Yes No No Yes Yes inclusive EMC shield plate Yes No No 0 2
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit	Yes No No Yes Yes inclusive EMC shield plate Yes No No 0 2
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3 4.5 8.5 mm
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection at 690 V by gG fuse rated value	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3 4.5 8.5 mm
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection at 690 V by gG fuse rated value let-through current with closed switch	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3 4.5 8.5 mm
 main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection at 690 V by gG fuse rated value 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	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3 4.5 8.5 mm
main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product details product feature can be locked in ON position special product feature product feature can be locked into OFF position accessories product extension optional motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection at 690 V by gG fuse rated value let-through current with closed switch at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3 4.5 8.5 mm 50 kA 4.5 kA 4.5 kA

at 240 V for combination switch + gG fuse maximum	9 kA2.s
• at 440 V for combination switch + gG fuse maximum	9 kA2.s
at 690 V for combination switch + gG fuse maximum	9 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit required	fuse gL/gG: 40 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	40 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	32 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	20
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	20
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	80 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	8
•	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 processing	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
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 	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
maximum	
	55 °C
Approvals Certificates	55 °C





Confirmation







Test Certificates

Marine / Shipping

other

Environment

Miscellaneous



Miscellaneous

Confirmation

Environmental Con**firmations**

Environmental Confirmations

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=3LD2284-2GP21

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

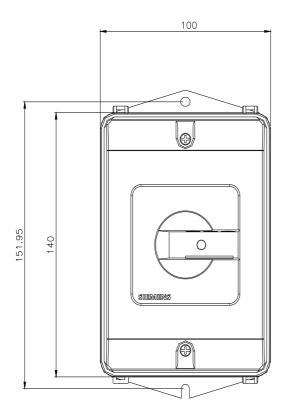
https://support.industry.siemens.com/cs/ww/en/ps/3LD2284-2GP2

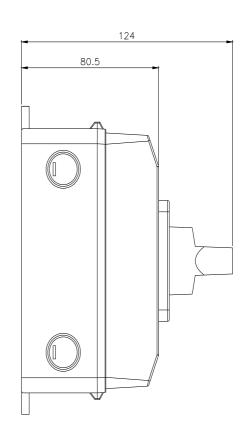
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2284-2GP21

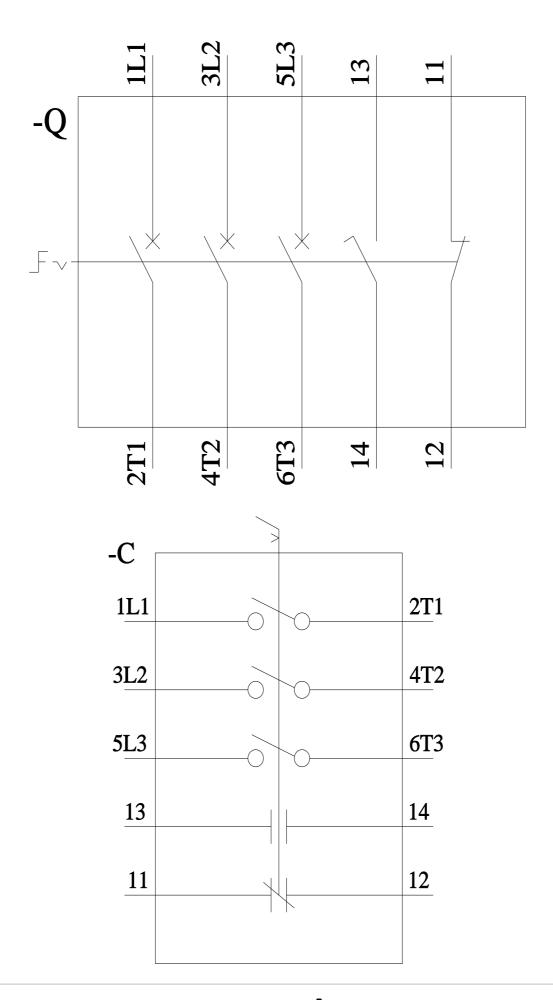
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications







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