SIEMENS

Data sheet 3LD2084-2GP21



SENTRON switch disconnector 3LD in molded-plastic enclosure , repair and maintenance switch with EMC plate, 3-pole lu: 16A, AC23A 400V at 50/60Hz: 7,5kW, used with frequency converter: AC20 400V at 0-550Hz: 4kW, 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 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	3	
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 disconnector	1	
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	3 kA2.s	
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 kA2.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 	480 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 	0.5 W	
per conductor / typical	1 W	

Current	
operational current	
at 40 °C / rated value	12.8 A
at AC / rated value	16 A
at AC-23 A / at 400 V / rated value	16 A
at AC-21 / at 690 V / rated value	16 A
at AC-21 A / at 240 V / rated value	16 A
at AC-21 A / at 440 V / rated value	16 A
operational current / of upstream fuse / rated value	20 A
let-through current / with closed switch	
• at 440 V / for combination switch + gG fuse /	3 kA
maximum	
 at 690 V / for combination switch + gG fuse / maximum permissible 	3 kA
Main circuit	
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	4 kW
at AC-23 A / at 440 V / rated value	7.5 kW
at AC-23 A / at 690 V / rated value	8 kW
at AC-3 / at 240 V / rated value	3 kW
at AC-3 / at 400 V / rated value	6 kW
• at AC-3 / at 690 V / rated value	5.5 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 	4 kW
operational current / rated value	16 A
continuous current / between converter and motor / when used as repair switch / at AC-20	
at 230 V / rated value	10.4 A
at 400 V / rated value	10.2 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
 EMERGENCY OFF switch 	No
safety switch	No
maintenance/repair switch	Yes
Appearance	
color / of the actuating element	black
Product details	
product feature	
can be locked into OFF position	Yes
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
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	16 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	7.5
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	10
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	
• maximum	10
• minimum	18
type of connectable conductor cross-sections / for copper conductor • solid	1x (16mm²)
finely stranded / with core end processing	1x (14mm²)
• stranded	1x (16mm²)
type of connectable conductor cross-sections / for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary
• finely stranded / with core end processing	switch 1x (0,75 2,5mm²) lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary
• strandad	switch 1x 2,5mm ²
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	hay tarminal
for main current circuit for auxiliary contacts	box terminal connection terminals
Requirements	Connection terminals
design of the fuse link	
for short-circuit protection of the main circuit / required	fuse gL/gG: 20 A
for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A
Mechanical Design	
height	164 mm
width	100 mm
depth	117 mm
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

Confirmation



EAC

UK Declaration of Conformity

CE EG-Konf. Miscellaneous

other

Environmental Confirmations **Miscellaneous**

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?mlfb=3LD2084-2GP21

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2084-2GP21

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

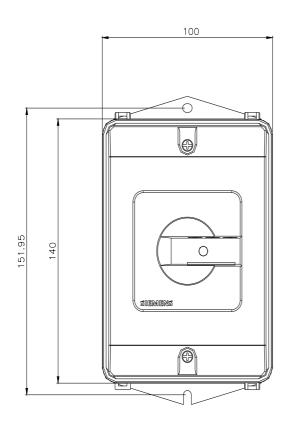
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2084-2GP21

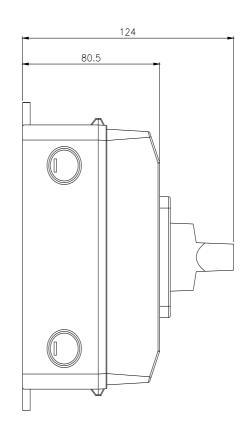
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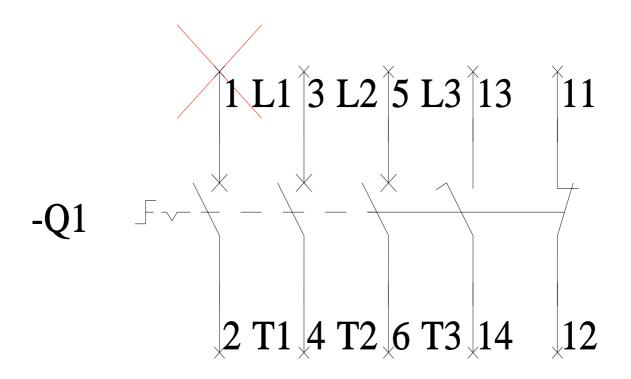
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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