## 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

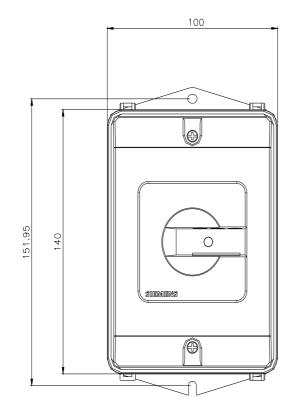
Model				
product brand name	SENTRON			
product designation	Switch disconnector			
design of the product	Switch			
display version for switch position indicator manual operation	1 ON - 0 OFF			
type of switch	Molded-plastic enclosure for metric threaded joint			
design of the actuating element	selector 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	1			
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			
<ul> <li>between converter and motor at AC at 0-550 Hz rated value</li> </ul>	480 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	0.5 W			
Main circuit				
operating frequency between converter and motor when				

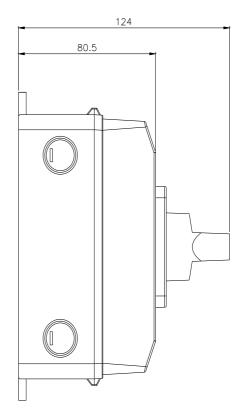
used as repair switch	
initial value	0 Hz
• full-scale value	550 Hz
operational current	
<ul> <li>at AC-21 at 690 V rated value</li> </ul>	16 A
<ul> <li>at AC-21 A at 240 V rated value</li> </ul>	16 A
• at AC-21 A at 400 V rated value	16 A
• at AC-21 A at 440 V rated value	16 A
• at AC-23 A at 400 V rated value	16 A
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
<ul> <li>at AC-23 A at 690 V rated value</li> </ul>	8 kW
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	3 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	6 kW
<ul> <li>at AC-3 at 690 V rated value</li> </ul>	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
continuous current between converter and motor when	
used as repair switch at AC-20	
• at 230 V rated value	10.4 A
<ul> <li>at 400 V rated value</li> </ul>	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 suitability for use main switch	Yes
	Yes Yes
suitability for use main switch	
suitability for use main switch suitability for use switch disconnector	Yes
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch	Yes No
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch	Yes No No
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use maintenance/repair switch	Yes No No
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use maintenance/repair switch Product details	Yes No No Yes
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use maintenance/repair switch Product details product feature can be locked in ON position	Yes No No Yes Yes
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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 inclusive EMC shield plate
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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
suitability for use main switch         suitability for use switch disconnector         suitability for use EMERGENCY OFF switch         suitability for use safety switch         suitability for use 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
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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
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suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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	Yes No No Yes Yes Yes No No No 2 4
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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	Yes No No Yes Yes Yes No No 2 4 0
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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 Yes Yes Yes No No No 2 4 0 3 4.5 8.5 mm
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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 Yes Yes Yes No No No 2 4 0 3 4.5 8.5 mm
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use 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	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3 4.5 8.5 mm
suitability for use main switch suitability for use switch disconnector suitability for use EMERGENCY OFF switch suitability for use safety switch suitability for use 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	Yes No No Yes Yes inclusive EMC shield plate Yes No No 2 4 0 3 4.58.5 mm 50 kA 3 kA

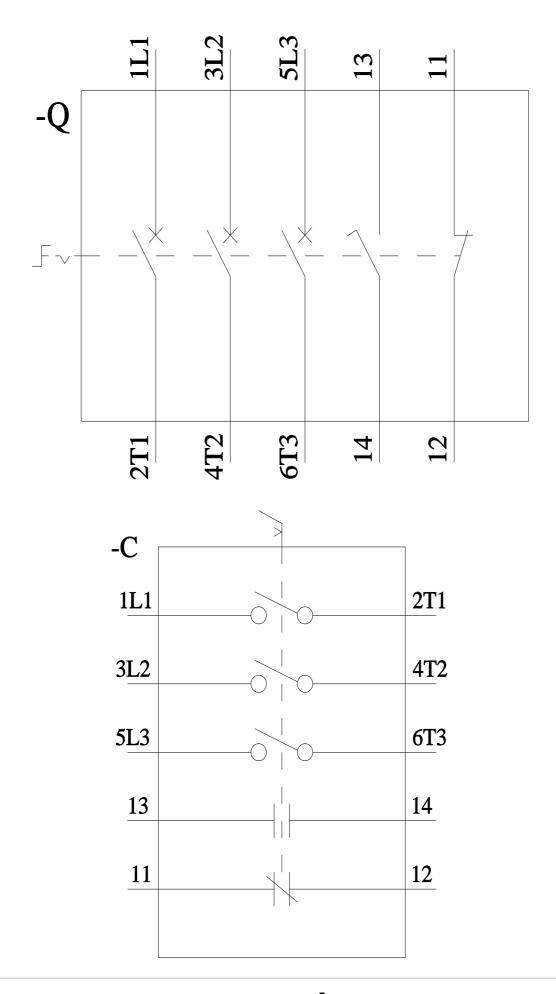
• at 240 V for combination switch + gG fuse maximum	2.5 kA2.s				
• at 440 V for combination switch + gG fuse maximum	2.5 kA2.s				
<ul> <li>at 690 V for combination switch + gG fuse maximum</li> </ul>	3 kA2.s				
design of the fuse link					
<ul> <li>for short-circuit protection of the main circuit required</li> </ul>	fuse gL/gG: 20 A				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A				
operational current of upstream fuse rated value	20 A				
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				
Connections					
AWG number as coded connectable conductor cross section solid maximum					
•	10				
•	18				
type of connectable conductor cross-sections for copper conductor					
• solid	1x (16mm²)				
<ul> <li>finely stranded with core end processing</li> </ul>	1x (14mm <sup>2</sup> )				
• stranded	1x (16mm²)				
type of connectable conductor cross-sections for auxiliary contacts					
• solid	lateral auxiliary switch 2x (0,75 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 2,5mm <sup>2</sup> )				
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm <sup>2</sup> ), 1x 2,5mm <sup>2</sup> ; front auxiliary switch 1x 2,5mm <sup>2</sup>				
• stranded	lateral auxiliary switch 2x (0,75 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 2,5mm <sup>2</sup> )				
type of electrical connection					
<ul> <li>for main current circuit</li> </ul>	box terminal				
<ul> <li>for auxiliary contacts</li> </ul>	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				
<ul> <li>front mounting with central attachment</li> </ul>	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					
General Product Approval					

	UK CA	CE EG-Konf.	<u>Confirmation</u>		EHC		
Test Certificates	Marine / Shipping	other		Environment			
<u>Miscellaneous</u>	Llovd's Register us	<u>Confirmation</u>	<u>Miscellaneous</u>	Environmental Con- firmations	<u>Environmental Con-</u> firmations		
Further information 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=3LD2084-2GP21 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3LD2084-2GP21							
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