



SENTRON, Switch disconnecter 3LD, change-over switch, 3-pole, Iu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, molded-plastic encapsulation for metric cable screw connection, knob-operated mechanism, black

Model	
Product brand name	SENTRON
Product designation	3LD Switch disconnecter
Design of the product	Selector switch
Display version / for switch position indicator manual operation	1 ON - 0 OFF - 2 ON
Design of the operating mechanism	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	N + PE
Type of device	fixed mounting
Type of switch	Molded-plastic enclosure for metric threaded joint
Size of switch disconnecter	2
Electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	4 kA2.s

Let-through I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA ² .s
Mechanical service life (switching cycles) / typical	100 000
Operating frequency / maximum	50 1/h

Voltage

Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	6 kV
Operating current / at AC / rated value	25 A
Operating voltage at AC / at 50/60 Hz / rated value	690 V

Protection class

Protection class IP	IP65
Degree of protection NEMA rating	1, 4X, 12
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 - per conductor / typical	1.1 W 1.1 W
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Current

Operating current - at AC-23 A / at 690 V / rated value - at AC-23 A / at 400 V / rated value - at AC-22 A / at 690 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 - at AC-22 A / at 240 V / rated value - at AC-22 A / at 440 V / rated value - at AC-23 A / at 240 V / rated value - at AC-23 A / at 440 V / rated value	11 A 20 A 25 A 25 A 25 A 25 A 25 A 25 A 20 A 20 A
Operating current / of upstream fuse / rated value	25 A
Let-through current / with closed switch - 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
Short-time withstand current (I _{cw}) - limited to 1 s / rated value - at 690 V / limited to 1 s / rated value	640 A 640 A

Main circuit

Operating frequency	
• initial value	50 Hz
• Full-scale value	60 Hz
Operating power	
• at AC-23 A / at 240 V / rated value	5 kW
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	9.5 kW
• at AC-23 A / at 400 V / rated value	9.5 kW
• at AC-23 A / at 440 V / rated value	9.5 kW
• at AC-23 A / at 690 V / rated value	9.5 kW
• at AC-3 / at 240 V / rated value	4 kW
• at AC-3 / at 400 V / rated value	7.5 kW
• at AC-3 / at 690 V / rated value	7.5 kW
Operating current / rated value	25 A

Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0
Operating voltage / of auxiliary contacts / at AC / maximum	500 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 disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

Appearance	
Color / of the actuating element	black

Product details	
• Product function / can be locked into OFF position	No
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

Operating current / at AC / acc. to UL 508 / rated value	25 A
Operating voltage / at AC / at 50/60 Hz / acc. to UL 508 / rated value	600 V
Active power [hp] / at AC / at 480 V / acc. to UL 508 / rated value	10
Active power [hp] / at AC / at 600 V / acc. to UL 508 / rated value	15
Short-time withstand current (SCCR) / at 600 V / acc. to UL 508	5 kA
Continuous current / of upstream fuse / according to UL / rated value	50 A
Type of fuse / according to UL	RK5
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 • minimum	8 14
Type of connectable conductor cross-sections / for copper conductor	
• solid • finely stranded / with core end processing • stranded	1x (1,5...16mm²) 1x (1,5...10mm²) 1x (1,5...16mm²)
Type of connectable conductor cross-sections / for auxiliary contacts	
• solid • finely stranded / with core end processing • stranded	lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²) lateral auxiliary switch 2x (0,75 ... 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² 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 • for auxiliary contacts	box terminal connection terminals

Requirements

Design of the fuse link	
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- 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

Mechanical Design

Height	188 mm
Width	146 mm
Depth	149 mm
Mounting type	Complete unit in enclosure
Mounting type	
• front mounting with 4-hole attachment	No
• front mounting with central attachment	Yes
• rail mounting	No
Net weight	894 g

Environmental conditions

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

Certificates

Reference code	
• acc. to DIN EN 61346-2	S
• acc. to DIN EN 81346-2	SF

General Product Approval

Declaration of Conformity



[Miscellaneous](#)



Shipping Approval

other



[Environmental Conformations](#)

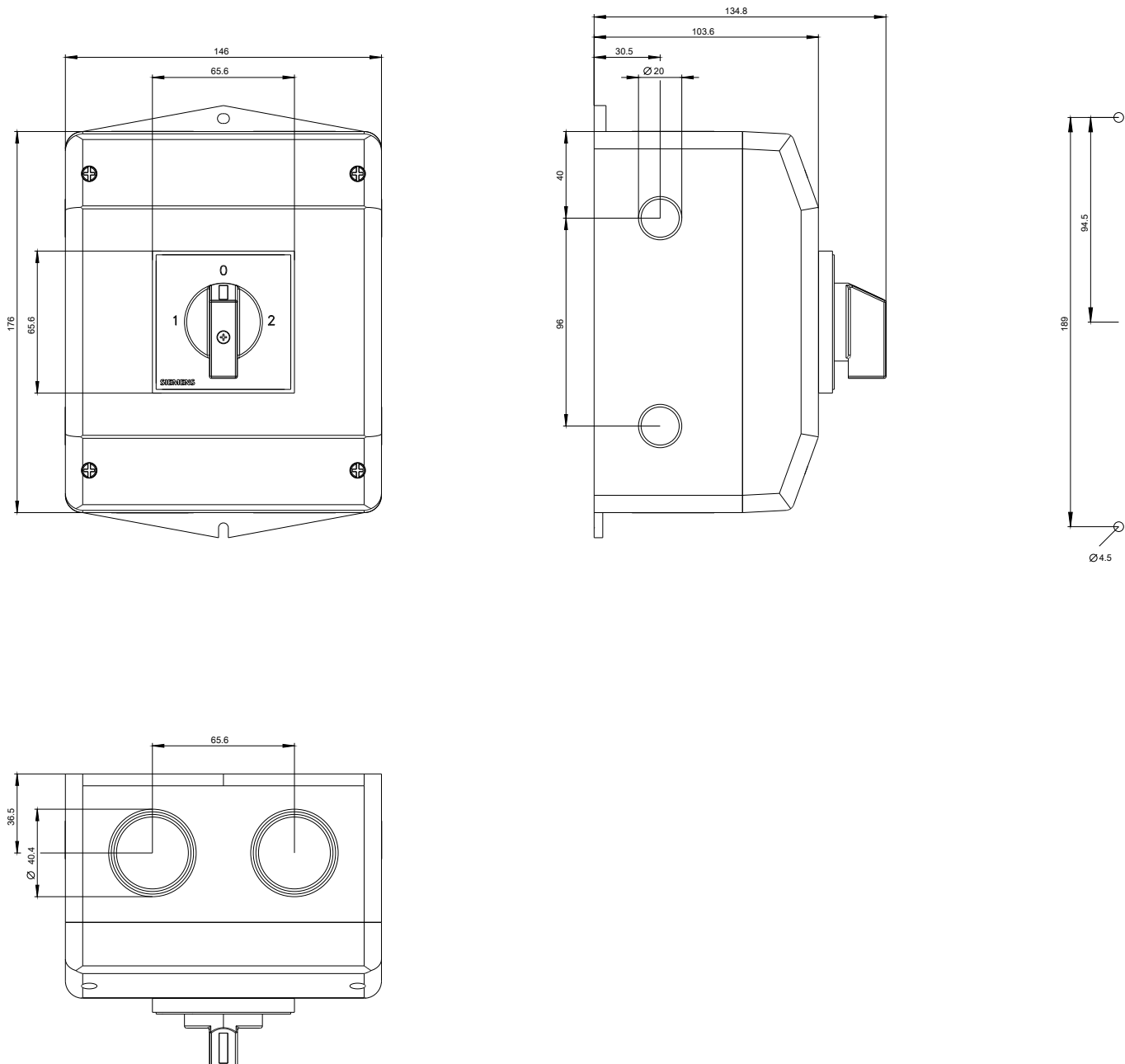
Further information

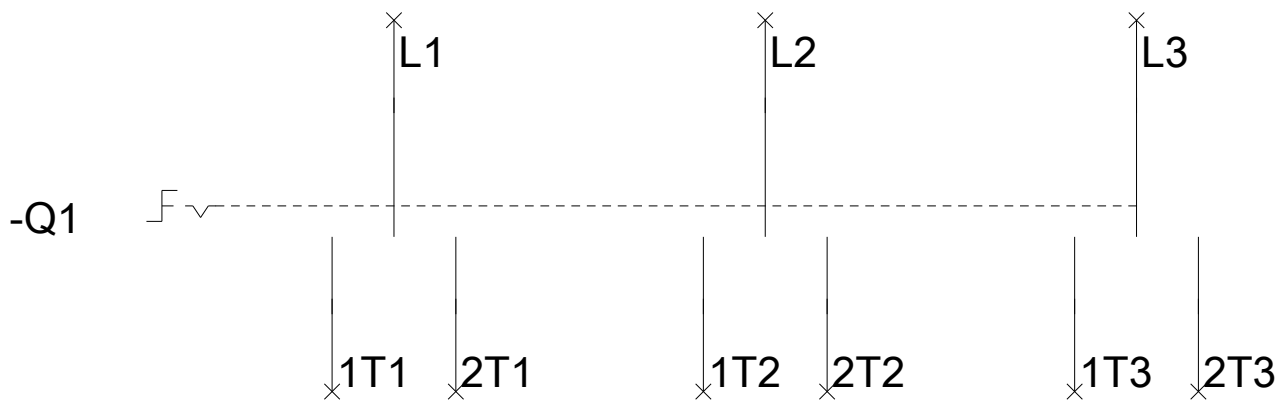
Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2165-7UB01>





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