SIEMENS

Data sheet



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3-pole, lu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, Molded plastic encapsulation for inch cable gland, 1 NC, 1 NO, rotary operating mechanism, red/yellow

Model	
product brand name	SENTRON
product designation	3LD Switch disconnector
design of the product	EMERGENCY-STOP switch
display version / for switch position indicator manual operation	1 ON - 0 OFF
design of the actuating element	Short rotary knob
design of handle	rotary operating mechanism, red/yellow
type of the driving mechanism / motor drive	No
General technical data	
number of poles	3
number of poles / note	PE
type of device	fixed mounting
type of switch	Molded-plastic enclosure for inch 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
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
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 	0.5 W
 per conductor / typical 	1 W
Current	
operational current	
 at 40 °C / rated value 	16 A
 at 45 °C / rated value 	16 A
• at 50 °C / rated value	16 A

a at EE °C / rated value	16.4
 at 55 °C / rated value at AC / rated value 	16 A
at AC / fated value 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	2071
• at 440 V / for combination switch + gG fuse /	3 kA
maximum	
 at 690 V / for combination switch + gG fuse / 	3 kA
maximum permissible	
Main circuit	
operating power	
• at AC-23 A / at 240 V / rated value	4 kW
 at AC-23 A / at 400 V / rated value 	8 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 at AC-3 / at 600 V / rated value	6 kW 5.5 kW
at AC-3 / at 690 V / rated value	16 A
operational current / rated value	10 /
Auxiliary circuit	0
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1 500 V
operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value	10 A
insulation voltage / of the auxiliary switch / rated value	500 V
Suitability	300 V
suitability for use • main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	Yes
safety switch	Yes
maintenance/repair switch	Yes
Appearance	163
color / of the actuating element	red
	led
Product details	
product feature	V
• can be locked into OFF position	Yes
number of bracket locks / maximum	3 4 mm
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum	4 mm 8 mm
product extension / optional	OTHILL
motor drive	No
voltage trigger	No
Short circuit	110
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	5 kA

to UL 508/UL 60947-4-1	F0.A
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	3
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 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
Requirements	
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 /	fuse gL/gG: 10 A
required	5
required Mechanical Design	
·	164 mm
Mechanical Design	
Mechanical Design height	164 mm
Mechanical Design height width	164 mm 100 mm
Mechanical Design height width depth	164 mm 100 mm 118 mm
Mechanical Design height width depth fastening method fastening method • 4-hole front mounting	164 mm 100 mm 118 mm
Mechanical Design height width depth fastening method fastening method	164 mm 100 mm 118 mm Complete unit in enclosure
Mechanical Design height width depth fastening method fastening method • 4-hole front mounting	164 mm 100 mm 118 mm Complete unit in enclosure
Mechanical Design height width depth fastening method fastening method • 4-hole front mounting • front mounting with central attachment	164 mm 100 mm 118 mm Complete unit in enclosure No Yes
Mechanical Design height width depth fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting	164 mm 100 mm 118 mm Complete unit in enclosure No Yes No
Mechanical Design height width depth fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight	164 mm 100 mm 118 mm Complete unit in enclosure No Yes No
Mechanical Design height width depth fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions	164 mm 100 mm 118 mm Complete unit in enclosure No Yes No
Mechanical Design height width depth fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature / during operation	164 mm 100 mm 118 mm Complete unit in enclosure No Yes No 480 g
Mechanical Design height width depth fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature / during operation • minimum	164 mm 100 mm 118 mm Complete unit in enclosure No Yes No 480 g





Confirmation





Miscellaneous

General Product Declaration of Conformity Test Certificates Marine / Shipping







Special Test Certificate

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=3LD2064-1GP53-0US2

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2064-1GP53-0US2

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

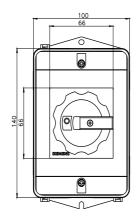
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2064-1GP53-0US2

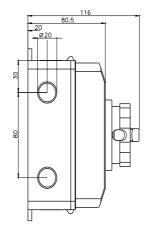
CAx-Online-Generator

http://www.siemens.com/cax

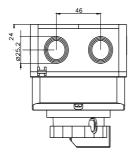
Tender specifications

http://www.siemens.com/specifications









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