



Load disconnector 3LD3, I_u 40 A Main switch 3-pole Rated operating capacity at AC-23 A at 400 V 18.5 kW floor mounting Basic switch with door coupling Central hole mounting 22.5mm Rotary actuator red / yellow 66 x 66 mm

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
type of switch	Floor mounting with door coupling
design of the actuating element	Short rotary knob
color / of the actuating element	red
design of handle	rotary operating mechanism, red/yellow
General technical data	
number of poles	3
number of poles / note	3
mechanical service life (switching cycles) / typical	100 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
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
operating frequency / rated value	
• minimum	50 Hz
• maximum	60 Hz
Protection class	
protection class IP	IP65
degree of protection NEMA rating	1, 3R, 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	2.5 W
Current	
operational current / rated value	40 A
operational current	
• at 40 °C / rated value	40 A
• at 45 °C / rated value	40 A
• at 50 °C / rated value	40 A

• at 55 °C / rated value	40 A
• at AC / rated value	40 A
Main circuit	
operational current	
• at AC-21 / at 690 V / rated value	40 A
• at AC-21 A / at 240 V / rated value	40 A
• at AC-21 A / at 400 V / rated value	40 A
• at AC-21 A / at 440 V / rated value	40 A
• at AC-23 A / at 400 V / rated value	36 A
operating power	
• at AC-23 A / at 240 V / rated value	7.5 kW
• at AC-23 A / at 400 V / rated value	19 kW
• at AC-23 A / at 440 V / rated value	15 kW
• at AC-23 A / at 690 V / rated value	15 kW
• at AC-3 / at 240 V / rated value	7.5 kW
• at AC-3 / at 400 V / rated value	12 kW
• at AC-3 / at 690 V / rated value	11.5 kW
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 disconnector	Yes
• EMERGENCY OFF switch	Yes
• safety switch	Yes
• maintenance/repair switch	Yes
Product details	
special product feature	Can be locked in zero position
product feature / can be locked into OFF position	Yes
accessories	
product extension / optional	
• motor drive	No
• voltage trigger	No
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
number of bracket locks / maximum	2
hasp thickness / of the bracket locks	4 ... 6 mm
Short circuit	
conditional short-circuit current / with line-side fuse protection	
• at 440 V / by gG fuse / rated value	10 kA
• at 690 V / by gG fuse / rated value	6 kA
let-through current / with closed switch	
• at 240 V / for combination switch + gG fuse / maximum	5 kA
• at 440 V / for combination switch + gG fuse / maximum	5 kA
• at 690 V / for combination switch + gG fuse / maximum permissible	5 kA
I _{2t} value / with closed switch	
• at 240 V / for combination switch + gG fuse / maximum	15 kA2.s

• at 440 V / for combination switch + gG fuse / maximum	15 kA2.s
• at 690 V / for combination switch + gG fuse / maximum	15 kA2.s
design of the fuse link <ul style="list-style-type: none"> • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 40 A 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	40 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	50 A
type of fuse / according to UL	RK5
Connections	
AWG number / as coded connectable conductor cross section / solid <ul style="list-style-type: none"> • maximum • minimum 	6 14
type of connectable conductor cross-sections / for copper conductor <ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	1x (2.5 to 16 mm ²) 1x (2.5...16 mm ²) 1x (2.5 to 16 mm ²)
type of connectable conductor cross-sections / for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	2x (0.75 ... 2.5 mm ²), 1x 4 mm ² 2x (0.75 ... 1.5 mm ²), 1x 2.5 mm ² 2x (0.75 ... 2.5 mm ²), 1x 4 mm ²
type of electrical connection <ul style="list-style-type: none"> • for main current circuit • for auxiliary contacts 	box terminal Box terminals
Mechanical Design	
height	60 mm
width	36 mm
depth	380 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method <ul style="list-style-type: none"> • 4-hole front mounting • front mounting with central attachment • rail mounting 	No Yes Yes
net weight	300 g
Environmental conditions	
ambient temperature / during operation <ul style="list-style-type: none"> • minimum • maximum 	-25 °C 55 °C
ambient temperature / during storage <ul style="list-style-type: none"> • minimum • maximum 	-25 °C 55 °C
General Product Approval	
Declaration of Conformity	

[Confirmation](#)



other

[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=3LD3348-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3348-0TK53>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3348-0TK53

CAx-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



