

SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 63 A, operating power / at AC-23 A 400 V: 22 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, central mounting 22.5 mm of the handle



Model	
Product brand name	SETRON
Product designation	3LD Switch disconnecter
Design of the product	EMERGENCY-STOP switch
Display version / for switch position indicator manual operation	1 ON - 0 OFF
Design of the operating mechanism	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
Type of device	fixed mounting
Type of switch	Floor mounting with door coupling
Size of switch disconnecter	3
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	21 kA2.s

Let-through I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	21 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	63 A
Operating voltage <ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value 	690 V

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] <ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole • per conductor / typical 	4.5 W 4.5 W
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Current

Operating current <ul style="list-style-type: none"> • 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 	22 A 43 A 63 A 63 A 63 A 63 A 63 A 63 A 43 A 43 A
Operating current / of upstream fuse / rated value	63 A
let-through current / with closed switch <ul style="list-style-type: none"> • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible 	6 kA 6 kA
Short-time withstand current (I _{cw}) <ul style="list-style-type: none"> • limited to 1 s / rated value • at 690 V / limited to 1 s / rated value 	1 260 A 1 260 A

Main circuit

Operating frequency	
<ul style="list-style-type: none"> • initial value • Full-scale value 	50 Hz 60 Hz
Operating power	
<ul style="list-style-type: none"> • at AC-23 A / at 240 V / rated value • at AC-23 A / at 400 V / at 50/60 Hz / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 440 V / rated value • at AC-23 A / at 690 V / rated value • at AC-3 / at 240 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 690 V / rated value 	11 kW 22 kW 22 kW 22 kW 18.5 kW 11 kW 18.5 kW 15 kW
Operating current / rated value	63 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	
<ul style="list-style-type: none"> • Main switch • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch 	Yes Yes Yes Yes Yes

Appearance

Color / of the actuating element	red
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Product details

<ul style="list-style-type: none"> • Product function / can be locked into OFF position 	Yes
Number of bracket locks / maximum	3
Hasp thickness / of the bracket locks / minimum	4 mm
Hasp thickness / of the bracket locks / maximum	8 mm
Product extension / optional	
<ul style="list-style-type: none"> • motor drive • Voltage trigger 	No No

Short circuit	
Conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> at 690 V / by gG fuse / rated value 	50 kA
according UL	
Operating current / at AC / according to UL 508/UL 60947-4-1 / Rated value	63 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	40
Active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	50
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	175 A
Type of fuse / according to UL	RK5
Number	
Number of connectable NC contacts / for auxiliary contacts / attachable / maximum	3
Number of connectable NO contacts / for auxiliary contacts / attachable / maximum	5
Number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
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...35mm ²) 1x (2.5...16 mm ²) 1x (2,5..35mm ²)
Type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> solid finely stranded / with core end processing stranded 	lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²) lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ² lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²)
Type of electrical connection	

- for main current circuit
- for auxiliary contacts

box terminal
connection terminals

Requirements

Design of the fuse link

- for short-circuit protection of the main circuit / required
- for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 63 A

fuse gL/gG: 10 A

Mechanical Design

Height

106 mm

Width

90 mm

Depth

468.5 mm

Mounting type

Built-in unit fixed-mounted version

Mounting type

- front mounting with 4-hole attachment
- front mounting with central attachment
- rail mounting

No

Yes

Yes

Net weight

697 g

Environmental conditions

Ambient temperature / during operation

- minimum
- maximum

-25 °C

55 °C

Ambient temperature / during storage / minimum

-25 °C

Certificates

Reference code

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

S

SF

General Product Approval

Declaration of Conformity



CCC



CSA



UL



VDE

[Miscellaneous](#)



EG-Konf.

Test Certificates

Shipping Approval

other

[Special Test Certificate](#)



LRS

[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?mfb=3LD2545-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2545-0TK53>

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

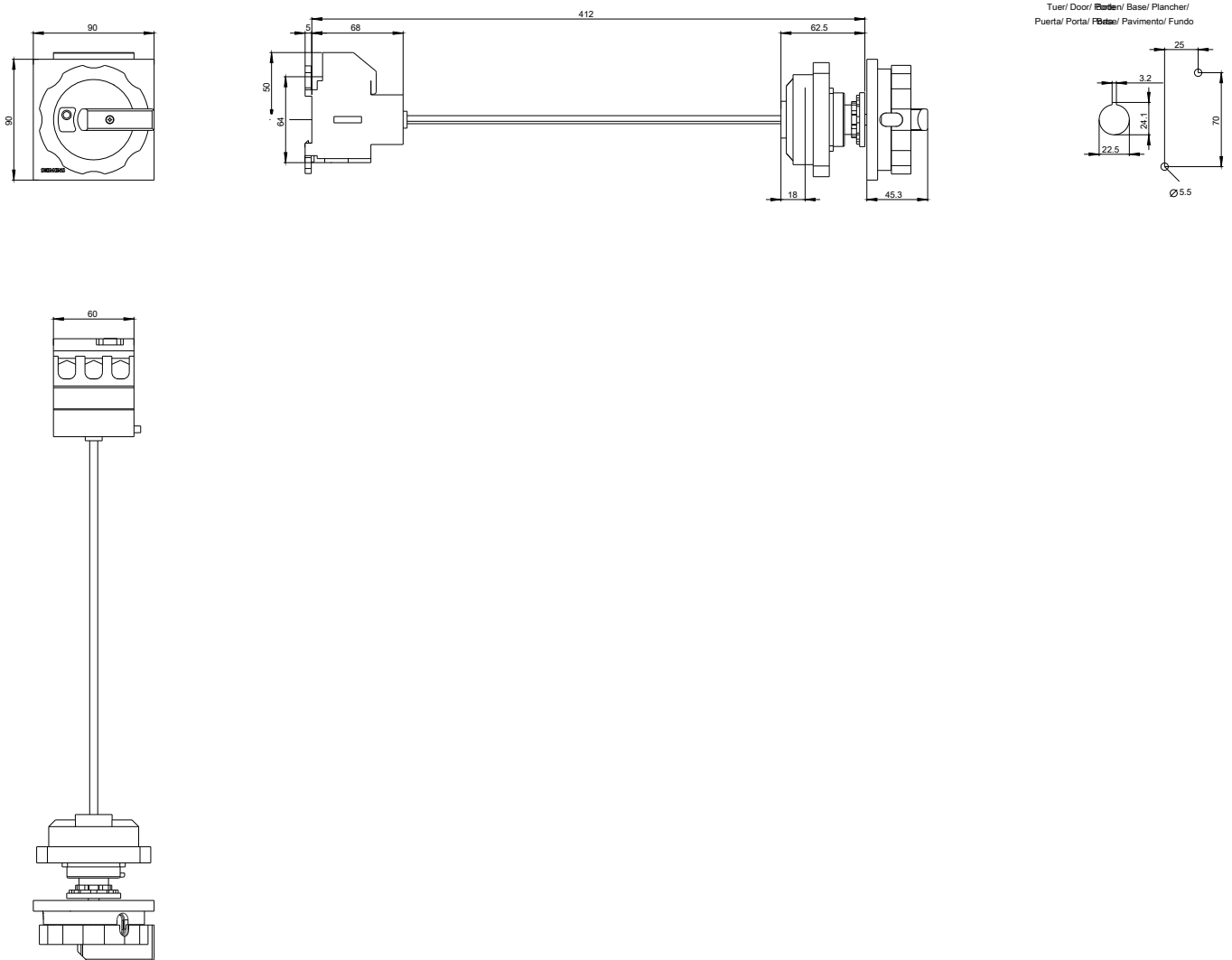
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD2545-0TK53

CAX-Online-Generator

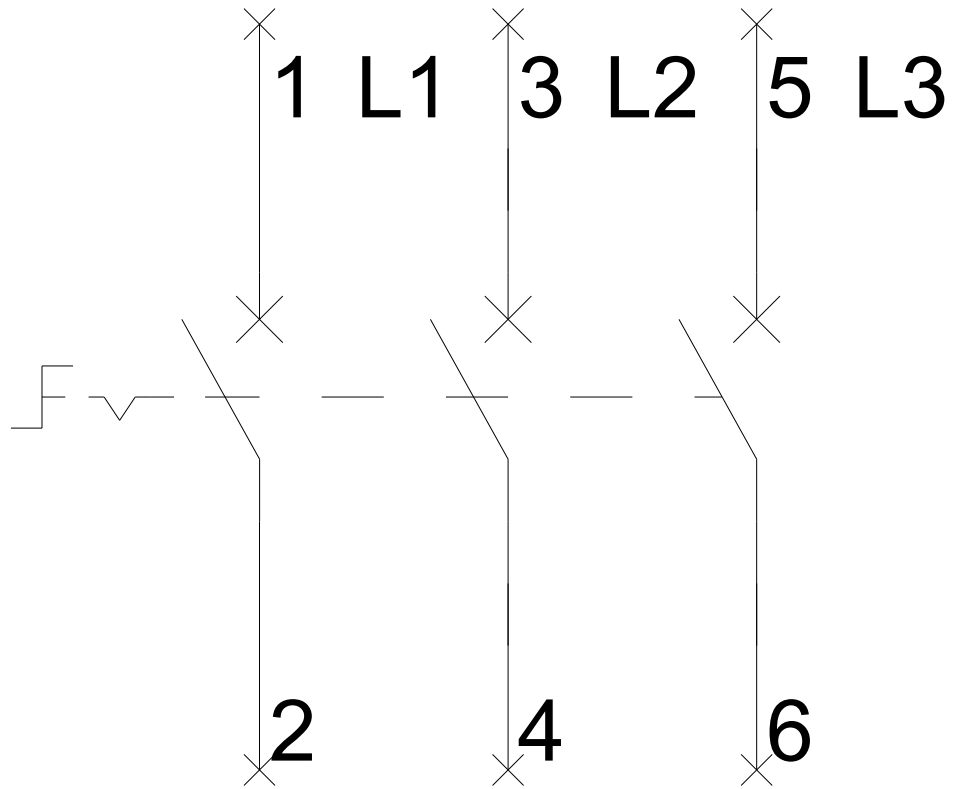
<http://www.siemens.com/cax>

Tender specifications

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



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