



SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, front-mounted, 1 NC, 1 NO, rotary operating mechanism, Red / yellow, Central mounting 22.5 mm of the handle

Model	
product brand name	SETRON
product designation	Switch disconnecter
design of the product	EMERGENCY-STOP switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	front mounted
design of the actuating element	Short rotary knob
color of the actuating element	red
design of handle	rotary operating mechanism, red/yellow
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of switch disconnecter	1
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating 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	0.5 W
Main circuit	
operational current	
• 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 400 V rated value	16 A
• at AC-21 A at 440 V rated value	16 A

<ul style="list-style-type: none"> at AC-23 A at 400 V rated value 	16 A
operating power	
<ul style="list-style-type: none"> at AC-23 A at 240 V rated value 	4 kW
<ul style="list-style-type: none"> at AC-23 A at 400 V rated value 	8 kW
<ul style="list-style-type: none"> at AC-23 A at 440 V rated value 	7.5 kW
<ul style="list-style-type: none"> at AC-23 A at 690 V rated value 	8 kW
<ul style="list-style-type: none"> at AC-3 at 240 V rated value 	3 kW
<ul style="list-style-type: none"> at AC-3 at 400 V rated value 	6 kW
<ul style="list-style-type: none"> at AC-3 at 690 V rated value 	5.5 kW
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	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
suitability for use switch disconnecter	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
Accessories	
product extension optional	
<ul style="list-style-type: none"> motor drive 	No
<ul style="list-style-type: none"> voltage trigger 	No
number of connectable NC contacts for auxiliary contacts attachable maximum	1
number of connectable NO contacts for auxiliary contacts attachable maximum	1
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 ... 8 mm
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
let-through current with closed switch	
<ul style="list-style-type: none"> at 240 V for combination switch + gG fuse maximum 	3 kA
<ul style="list-style-type: none"> at 440 V for combination switch + gG fuse maximum 	3 kA
<ul style="list-style-type: none"> at 690 V for combination switch + gG fuse maximum permissible 	3 kA
I²t value with closed switch	
<ul style="list-style-type: none"> at 240 V for combination switch + gG fuse maximum 	2.5 kA ² .s
<ul style="list-style-type: none"> at 440 V for combination switch + gG fuse maximum 	2.5 kA ² .s
<ul style="list-style-type: none"> at 690 V for combination switch + gG fuse maximum 	3 kA ² .s
design of the fuse link	
<ul style="list-style-type: none"> for short-circuit protection of the main circuit required 	fuse gL/gG: 20 A
<ul style="list-style-type: none"> for short-circuit protection of the auxiliary switch required 	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	5 kA

UL 508/UL 60947-4-1	
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 <ul style="list-style-type: none"> • • 	 10 18
type of connectable conductor cross-sections for copper conductor <ul style="list-style-type: none"> • solid • finely stranded with core end processing • stranded 	 1x (1...6mm ²) 1x (1...4mm ²) 1x (1..6mm 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 connection terminals

Mechanical Design

height	84 mm
width	67 mm
depth	117 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 No
Net Weight	233 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

Approvals Certificates

General Product Approval	Maritime application
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[Miscellaneous](#)



other	Environment
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[Confirmation](#)



[Environmental Con-
firmations](#)

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Further information

Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>
Information for data generation and storage
<https://support.industry.siemens.com/cs/ww/en/view/109995012>
Information- and Downloadcenter (Catalogs, Brochures,...)
<https://www.siemens.com/lowvoltage/catalogs>
Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2054-1TP53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2054-1TP53>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2054-1TP53

CAX-Online-Generator

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

Tender specifications

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





