

SENTRON 3LD5 switch disconnecter UL, EMERGENCY-OFF switch, 3-pole, approved according to UL 489, UL 60947-4-1 and IEC 60947-3, UL: 60 A, SCCR 50 kA at 480 V AC, operational power @ 480 V AC 3-phase: 40 hp, IEC: 63 A, operational power at AC-23 A at 400 V: 30 kW, front-mounted, rotary operating mechanism, red/yellow, 4-hole mounting of the handle, including terminal covers for the infeed side

Model	
product brand name	SENTRON
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	2
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	7.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	63 A
• at AC-21 A at 240 V rated value	63 A
• at AC-21 A at 400 V rated value	63 A
• at AC-21 A at 440 V rated value	63 A

<ul style="list-style-type: none"> • at AC-23 A at 400 V rated value 	63 A
operating power	
<ul style="list-style-type: none"> • at AC-23 A at 240 V rated value 	18.5 kW
<ul style="list-style-type: none"> • at AC-23 A at 400 V rated value 	30 kW
<ul style="list-style-type: none"> • at AC-23 A at 440 V rated value 	30 kW
<ul style="list-style-type: none"> • at AC-23 A at 690 V rated value 	37 kW
<ul style="list-style-type: none"> • at AC-3 at 240 V rated value 	18.5 kW
<ul style="list-style-type: none"> • at AC-3 at 400 V rated value 	30 kW
<ul style="list-style-type: none"> • at AC-3 at 690 V rated value 	30 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
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	3
number of connectable NO contacts for auxiliary contacts attachable maximum	3
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 ... 6 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
<ul style="list-style-type: none"> • at 440 V by gG fuse rated value 	50 kA
<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 	8 kA
<ul style="list-style-type: none"> • at 440 V for combination switch + gG fuse maximum 	8 kA
<ul style="list-style-type: none"> • at 690 V for combination switch + gG fuse maximum permissible 	7 kA
I_{2t} value with closed switch	
<ul style="list-style-type: none"> • at 240 V for combination switch + gG fuse maximum 	30 kA ² .s
<ul style="list-style-type: none"> • at 440 V for combination switch + gG fuse maximum 	30 kA ² .s
<ul style="list-style-type: none"> • at 690 V for combination switch + gG fuse maximum 	24 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: 63 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	63 A
according UL	
operational current at AC according to UL 489/UL 60947-4-1 rated value	60 A
operational current at AC according to UL 508/UL 60947-4-1 rated value	60 A
operating voltage at AC at 50/60 Hz according to UL 489 rated value	480 V
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	480 V

active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	30
short-time withstand current (SCCR) at 480 V according to UL 508/UL 60947-4-1 and UL 489	50 kA
continuous current of upstream fuse according to UL rated value	60 A
type of fuse according to UL	Class J

Connections

AWG number as coded connectable conductor cross section solid maximum <ul style="list-style-type: none"> • • 	1 12
AWG number as coded connectable conductor cross section solid according to UL 489 <ul style="list-style-type: none"> • minimum • maximum 	12 1
AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16 <ul style="list-style-type: none"> • minimum • maximum 	10 4
type of connectable conductor cross-sections for copper conductor <ul style="list-style-type: none"> • solid • finely stranded with core end processing • stranded 	1x (4...50mm ²) 1x (4...35mm ²) 1x (4...50mm 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 <ul style="list-style-type: none"> • for main current circuit • for auxiliary contacts 	box terminal connection terminals

Mechanical Design

height	104 mm
width	90 mm
depth	108 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 	Yes No No
net weight	380 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

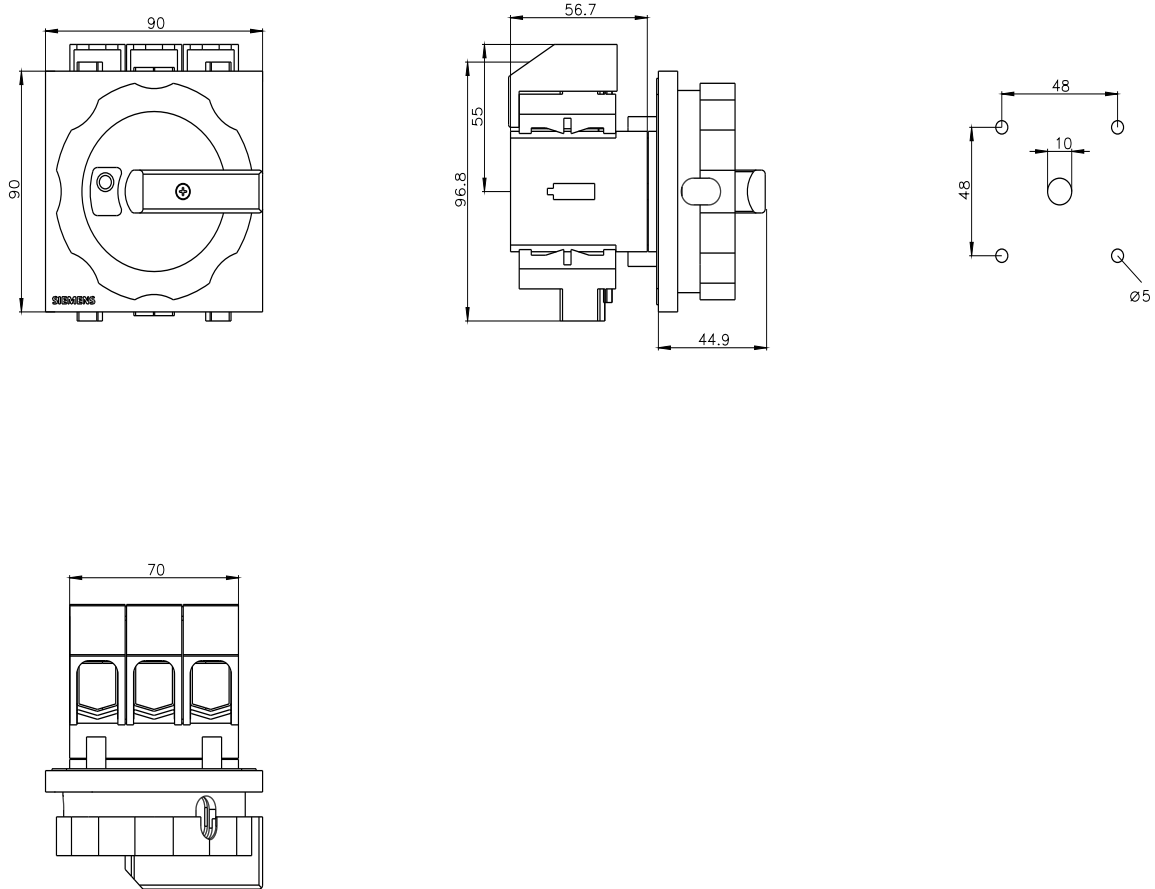
Approvals Certificates

General Product Approval	other
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[Miscellaneous](#)

other	Environment
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Further information**Information on the packaging**<https://support.industry.siemens.com/cs/ww/en/view/109813875>**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=3LD5220-0TK13>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/3LD5220-0TK13>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5220-0TK13**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>

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