

SENTRON 3LD5 switch disconnecter UL, EMERGENCY-OFF switch, 4-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, floor mounting with door coupling, defeatable rotary operating mechanism, EMERGENCY OFF, 4-hole mounting of the handle, without tolerance compensation, 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	Floor mounting with door coupling
design of the actuating element	door-coupling rotary operating mechanism
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	4
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 • 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 	18.5 kW 30 kW 30 kW 37 kW 18.5 kW 30 kW 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	
special product feature	defeatable door-coupling handle
product feature can be locked into OFF position	Yes

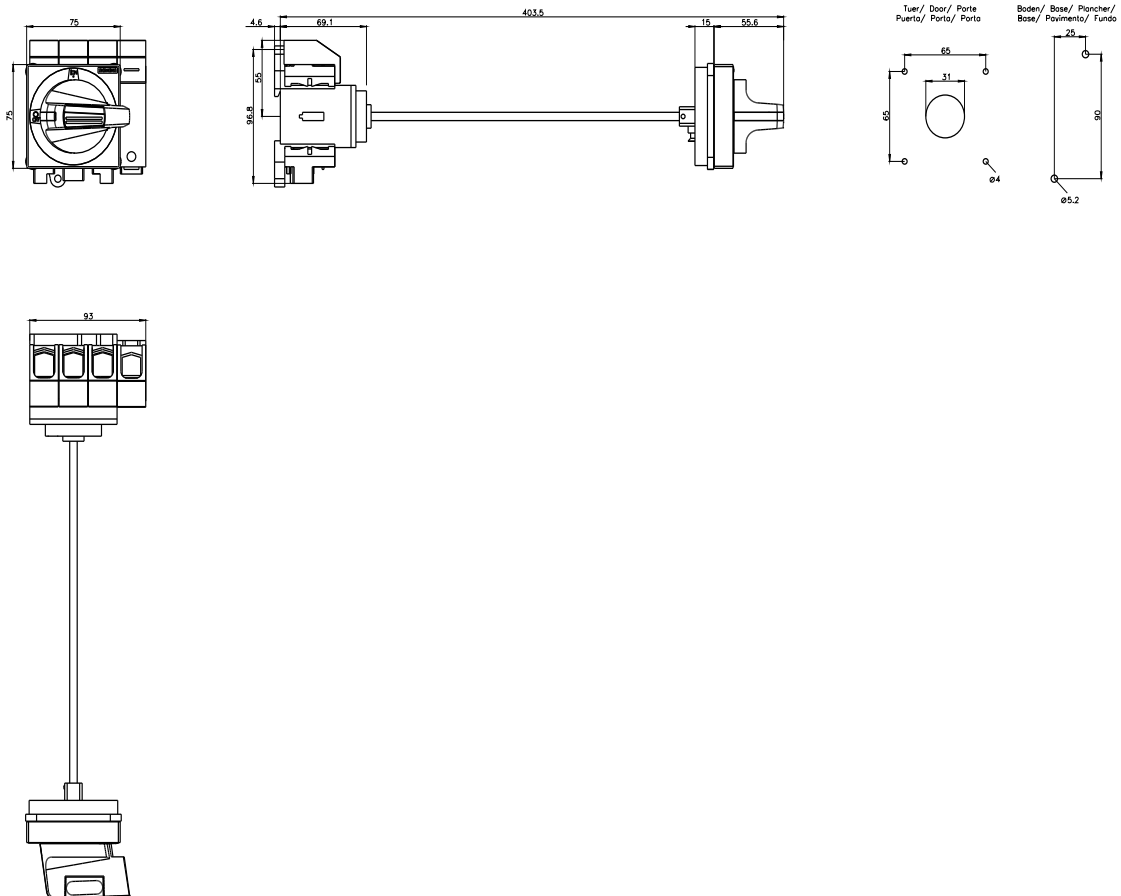
Accessories	
product extension optional	
<ul style="list-style-type: none"> • motor drive • voltage trigger 	No No
number of connectable NC contacts for auxiliary contacts attachable maximum	2
number of connectable NO contacts for auxiliary contacts attachable maximum	3
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	1
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 • at 690 V by gG fuse rated value 	50 kA 50 kA
let-through current with closed switch	
<ul style="list-style-type: none"> • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible 	8 kA 8 kA 7 kA
I_{2t} value with closed switch	
<ul style="list-style-type: none"> • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum 	30 kA ² .s 30 kA ² .s 24 kA ² .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: 63 A 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	480 V

60947-4-1 rated value	
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	
•	1
•	12
AWG number as coded connectable conductor cross section solid according to UL 489	
• minimum	12
• maximum	1
AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16	
• minimum	10
• maximum	4
type of connectable conductor cross-sections for copper conductor	
• solid	1x (4...50mm ²)
• finely stranded with core end processing	1x (4...35mm ²)
• stranded	1x (4...50mm ²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²)
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²
• stranded	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	box terminal
• for auxiliary contacts	connection terminals
Mechanical Design	
height	106 mm
width	96 mm
depth	408 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
• 4-hole front mounting	Yes
• front mounting with central attachment	No
• rail mounting	Yes
Net Weight	780 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
Approvals Certificates	
General Product Approval	other



[Confirmation](#)[Environmental Confirmations](#)**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=3LD5210-0TL13>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/3LD5210-0TL13>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5210-0TL13**CAX-Online-Generator**<https://www.siemens.com/cax>**Tender specifications**<https://www.siemens.com/specifications>

last modified:

4/14/2025

