



Load disconnector 3LD3, Iu 40 A Main switch 3-pole Rated operating capacity at AC-23 A at 400 V 18.5 kW Front plate mounting Basic switch with Central hole mounting 22.5mm Toggle drive red / yellow 66x66 mm with auxiliary switch 1OE + 1S

Model	
product brand name	SENTRON
product designation	Switch disconnector
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
General technical data	
number of poles	3
number of poles note	3
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	2.5 W
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	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

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	3
hasp thickness of the bracket locks	4 ... 8 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 kA _{2.s}
• at 440 V for combination switch + gG fuse maximum	15 kA _{2.s}
• at 690 V for combination switch + gG fuse maximum	15 kA _{2.s}
design of the fuse link	
• for short-circuit protection of the main circuit required	fuse gL/gG: 40 A
• for short-circuit protection of the auxiliary switch required	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 maximum			
•	6		
•	14		
type of connectable conductor cross-sections for copper conductor			
• solid	1x (2.5 to 16 mm ²)		
• finely stranded with core end processing	1x (2.5...16 mm ²)		
• stranded	1x (2.5 to 16 mm ²)		
type of connectable conductor cross-sections for auxiliary contacts			
• solid	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²		
• finely stranded with core end processing	2x (0.75 ... 1.5 mm ²), 1x 2.5 mm ²		
• stranded	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²		
type of electrical connection			
• for main current circuit	box terminal		
• for auxiliary contacts	Box terminals		
Mechanical Design			
height	60 mm		
width	47 mm		
depth	114 mm		
type of device	fixed mounting		
fastening method	Built-in unit fixed-mounted version		
fastening method			
• 4-hole front mounting	No		
• front mounting with central attachment	Yes		
• rail mounting	No		
net weight	200 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			
Confirmation	    		
other	Environment		
Confirmation	Miscellaneous	Environmental Confirmations	Environmental Confirmations
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=3LD3354-1TK53			
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3354-1TK53			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)			

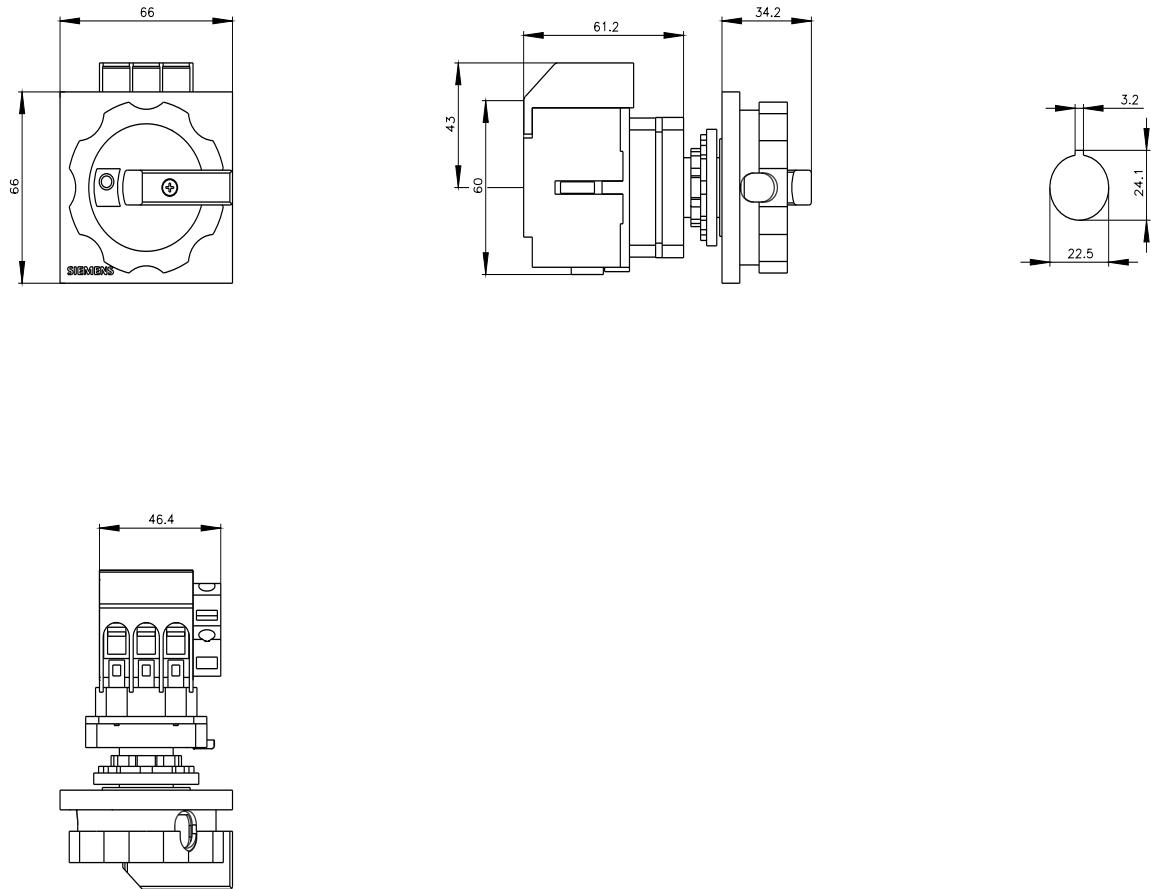
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3354-1TK53

CAx-Online-Generator

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

Tender specifications

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



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