SIEMENS

Data sheet 3LD3430-0TK11

Load disconnector 3LD3, Iu 63 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 22.0 kW Installation in distribution boards, Basic switch with selector knob black

Model	
Product brand name	SENTRON
Product designation	3LD Switch disconnector
Design of the product	Main switch
Display version / for switch position indicator manual operation	1 ON - 0 OFF
Design of the operating mechanism	selector switch
Design of handle	knob-operated mechanism, black
Type of the driving mechanism / motor drive	No

General technical data	
Number of poles	3
Number of poles / Note	3
Type of device	fixed mounting
Type of switch	DIN-rail mounting
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 I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	21 kA2.s
Mechanical service life (switching cycles) / typical	100 000
Operating frequency / maximum	50 1/h
Type of fuse / according to UL	RK5

Voltage	
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	6 kV
Current / at AC / rated value	63 A
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
• at AC / at 50/60 Hz / acc. to UL 508 / rated value	600 V
Active power [hp] / at AC	
• at 480 V / acc. to UL 508 / rated value	25
• at 600 V / acc. to UL 508 / rated value	30

Protection class	
Protection class IP	IP40
Protection class IP / on the front	IP40

Dissipation	
Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	4.5 W
• per conductor / typical	4.5 W

Current	
Operating current	
• at AC-23 A / at 690 V / rated value	22 A
• at AC-23 A / at 400 V / rated value	43 A
• at AC-22 A / at 690 V / rated value	22 A
• 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 440 V / rated value	63 A
• at AC-22 A / at 240 V / rated value	38 A
• at AC-22 A / at 440 V / rated value	43 A
• at AC-23 A / at 240 V / rated value	38 A
• at AC-23 A / at 440 V / rated value	43 A
• at AC / acc. to UL 508 / rated value	63 A
Operating current / of upstream fuse / rated value	63 A
Continuous current / of upstream fuse / according to UL / rated value	50 A
Let-through current / with closed switch	

• at 440 V / for combination switch + gG fuse / maximum	6 kA
• at 690 V / for combination switch + gG fuse / maximum permissible	6 kA
Short-time withstand current (Icw)	
• limited to 1 s / rated value	1 000 A
• at 690 V / limited to 1 s / rated value	1 000 A

Main circuit

Operating frequency	
• initial value	50 Hz
• Full-scale value	60 Hz
Operating power	
• at AC-23 A / at 240 V / rated value	11 kW
• at AC-23 A / at 400 V / rated value	22 kW
• at AC-23 A / at 440 V / rated value	22 kW
• at AC-23 A / at 690 V / rated value	18.5 kW
• at AC-3 / at 240 V / rated value	11 kW
• at AC-3 / at 400 V / rated value	18.5 kW
• at AC-3 / at 690 V / rated value	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	
• Main switch	Yes
• switch disconnector	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

Appearance

Color / of the actuating element	black

Product details

• Product function / can be locked into OFF position	Yes
Number of bracket locks / maximum	2
Hasp thickness / of the bracket locks / minimum	4 mm
Hasp thickness / of the bracket locks / maximum	6 mm
Special product feature	Can be locked in zero position

Short circuit	
Short-time withstand current (SCCR) / at 600 V / acc. to UL 508	5 kA
Conditional short-circuit current / with line-side fuse protection	
• at 690 V / by gG fuse / rated value	6 kA
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

Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	6
• minimum	14
Type of electrical connection	
• for main current circuit	box terminal
• for auxiliary contacts	Box terminals

Requirements	
Design of the fuse link	
• for short-circuit protection of the main circuit / required	fuse gL/gG: 63 A
• for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A

Mechanical Design	
Height	60 mm
Width	36 mm
Depth	77 mm
Mounting type	Built-in unit fixed-mounted version
Mounting type	
• front mounting with 4-hole attachment	No
• front mounting with central attachment	No
• rail mounting	Yes
Net weight	200 g

Environmental conditions	
Ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
Ambient temperature / during storage / minimum	-25 °C

Certificates	
Reference code	
• acc. to DIN EN 61346-2	S
• acc. to DIN EN 81346-2	SF

General Product Approval		Declaration of Conformity
CCC	UL	EG-Konf.

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?mlfb=3LD3430-0TK11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3LD3430-0TK11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3430-0TK11

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications