SIEMENS

Data sheet 3KD3442-2NE10-0



Switch disconnector 160 A, Size 2, 4-pole Front operating mechanism left Complete unit with direct operating mechanism gray Box terminal

SENTRON
3KD ewitch disconnector
3KD switch disconnector Switch
ON-OFF-TEST
Long rotary knob
Front operating mechanism
No
4
fixed mounting
2
15 000
1 500
1 000
19 815 A ² ·s
223 005 A ² ·s
226 005 A ² ·s
48 000 A ² ·s
560 000 A ² ·s
at the left end
10 %
III
3
440 V / 3
440 V / 3
1 000 V
8 kV

protection class IP	
 with closed switch / with cover or cable lug cover 	IP20
• on the front	IP20
Dissipation	
power loss [W]	
 with conventional rated thermal current / per pole 	4.6 W
 with conventional rated thermal current / per device 	18.4 W
 for rated value of the current / at AC / in hot 	4.6 W
operating state / per pole	
Current	
operational current	
• at 35 °C / rated value	160 A
 at 40 °C / rated value 	160 A
 at 45 °C / rated value 	160 A
• at 50 °C / rated value	160 A
 at 55 °C / rated value 	160 A
 at 60 °C / rated value 	160 A
• at 65 °C / rated value	160 A
• at 70 °C / rated value	160 A
at AC / rated value	160 A
at AC-23 A / at 690 V / rated value	125 A
at AC-23 A / at 500 V / rated value	160 A
at AC-23 A / at 400 V / rated value	160 A
at AC-22 A / at 1000 V / maximum	160 A
at AC-22 A / at 690 V / rated value	160 A
at AC-22 A / at 500 V / rated value	160 A
at AC-22 A / at 400 V / rated value	160 A
at AC-20 A / at 1000 V / maximum	160 A
at AC-21 A / at 500 V / rated value	160 A
at AC-21 A / at 690 V / rated value	160 A
continuous current / of upstream fuse / at 500 V and 690 V	250 A
/ rated value	050 A
continuous current / of upstream fuse / at 1000 V / rated value	250 A
continuous current / of upstream molded case circuit breaker / at 415 V / rated value	160 A
operational current / at DC / rated value	160 A
let-through current / of the fuse / at 500 V / maximum	25 700 A
permissible	
let-through current / of the gG fuse / at 690 V / maximum permissible	29 500 A
let-through current / of the aM fuse / at 690 V / maximum permissible	32 900 A
let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible	12 500 A
let-through current / of the molded case circuit breaker / at 415 V / maximum permissible	22 500 A
short-time withstand current (lcw)	
at 400 V AC / limited to 0.15 s / rated value	15 kA
Main circuit	
operating power	
• at AC-23 A / at 500 V / rated value	110 kW
operational current / rated value	160 A
Auxiliary circuit	
number of connected NC contacts / for auxiliary contacts	0
number of connected NO contacts / for auxiliary contacts	0
number of connected CO contacts / for auxiliary contacts	0
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
Suitability	
suitability for use	

	· ·
• main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature / interlock	Yes
product component	
• trip indicator	No
voltage trigger	No
undervoltage release	No
undervoltage release with leading contact	No V
product extension / auxiliary switch	Yes
product extension / optional • motor drive	No
voltage trigger	No
Short circuit	NO
	A Iva
short-time withstand current (lcw) / at 1000 V AC/440 V DC / limited to 1 s / rated value	4 kA
short-circuit current making capacity (lcm) / for switch disconnector	00.14
at 400 V AC / without fuse link / rated value / minimum	30 kA
at 1000 V AC / without fuse link / rated value / minimum	12 kA
 at DC 440 V / without fuse link / rated value / minimum 	12 kA
without fuse link / rated value / minimum	12 kA
conditional short-circuit current / with line-side fuse protection	
 at 415 V / by molded case circuit breaker / rated value 	65 kA
 at 500 V / by gG fuse / rated value 	100 kA
at 690 V / by gG fuse / rated value	100 kA
Connections	
type of connectable conductor cross-sections / with flexible busbar	3x (0.8x14 mm²)
type of connectable conductor cross-sections	14 (0 44 3)
• for copper busbar	'1 x (3 x 14 mm²)
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (2.5 16 mm²)
finely stranded / with core end processing	1x (2.5 70 mm²)
• stranded	1x (10 70 mm²)
type of electrical connection / for main current circuit	box terminal
Mechanical Design	400
height	126 mm
width	148 mm 97 mm
depth fastening method	
fastening method fastening method	Screw fixing and standard rail mounting 35 mm
4-hole front mounting	No
front mounting with central attachment	No
rail mounting	Yes
mounting position	any
net weight	1 498 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
maximum	70 °C
ambient temperature / during storage	
• minimum	-50 °C

• maximum 80 °C

General Product Approval

Declaration of Conformity





Miscellaneous



UK Declaration of Conformity



Marine / Shipping

other





Miscellaneous

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=3KD3442-2NE10-0

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3KD3442-2NE10-0

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

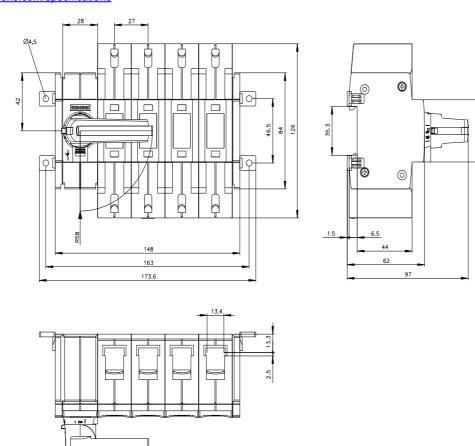
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3442-2NE10-0

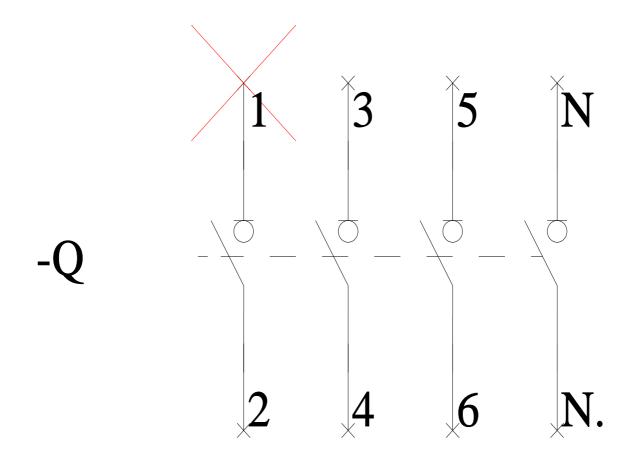
CAx-Online-Generator

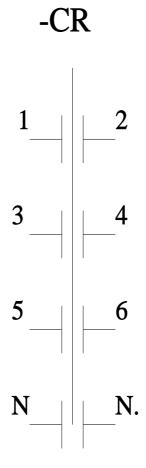
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







7