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

Model	
product brand name	SENTRON
product designation	3KD switch disconnector
design of the product	Switch
display version for switch position indicator manual operation	ON-OFF-TEST
design of the actuating element	Long rotary knob
type of the driving mechanism	Front operating mechanism
type of the driving mechanism motor drive	No
General technical data	
number of poles	4
type of device	fixed mounting
size of switch disconnector	2
mechanical service life (operating cycles) typical	15 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	1 500
• at DC-23 A at 440 V	1 000
12t value	
 with closed switch at 1000 V for combination switch +gG/aM SITOR fuse maximum 	19 815 A²·s
 of the fuse at 500 V maximum permissible 	223 005 A²·s
 of the gG fuse at 690 V maximum permissible 	226 005 A²-s
 of the gG/aM SITOR fuse at 1000 V maximum permissible 	48 000 A²·s
 of the molded case circuit breaker at 415 V maximum permissible 	560 000 A²-s
position of the switch operating mechanism	at the left end
overvoltage in percent relative to the operating voltage at AC at 400, 500, 690 V at 50/60 Hz	10 %
overvoltage category	III
degree of pollution	3
Voltage	
operating voltage with current paths in series	
 with degree of pollution 2 at DC rated value 	440 V / 3
 with degree of pollution 3 at DC rated value 	440 V / 3
insulation voltage	
rated value	1 000 V
surge voltage resistance rated value	8 kV
Protection class	
protection class IP	IP20
protection class IP	
 with closed switch with cover or cable lug cover 	IP20

Dissipation Provincing Pr	on the front	IP20
power loss IVI • with conventional rated thermal current per device • with conventional rated value operating power • with conventional rated value operational current rated value operational current rated value number of connected NC contacts for auxiliary contacts onumber of connected NC contacts for auxiliary contacts onumber of CO contacts for auxiliary contacts onumber of CO contacts for auxiliary contacts onumber of NC contacts for auxiliary contacts onumber of NC contacts for auxiliary contacts • withich disconnector • EMERGENCY OFF which • withich disconnector • EMERGENCY OFF which • withich disconnector • with disconnector • withich disconnector • within disconn		
with conventional rated thermal current per pole who for rated value of the current at AC in hot operating state per pole		
with conventional rated thermal current per device		4.6 W
* For rated value of the current at AC in hot operating state per pole pole per pole per pole per pol per pole		
per pole **An AC 23 A at 50 O V rated value **pervalence of C23 A at 50 O V rated value **pervalence of C23 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25 A at 50 O V rated value **pervalence of C25	•	4.6 W
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e at AC-23 A at 500 V rated value	Main circuit	
operational current rated value Aboutlary circuit number of connected NC contacts for auxiliary contacts onumber of connected NC contacts for auxiliary contacts onumber of CO contacts for auxiliary contacts onumber of CO contacts for auxiliary contacts onumber of CO contacts for auxiliary contacts onumber of NC contacts for auxiliary contac	operating power	
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number of connected NC contacts for auxiliary contacts number of connected NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for number	·	160 A
number of connected NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts Salizability	Auxiliary circuit	
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number of CO contacts for auxiliary contacts 0 number of NC substitution of NC subs		
number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 stratebility suitability suitability suitability for use • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • respective details Product dotails Product dotails Product details Product details product extension suililary switch product extension suililary switch product extension potonal • motor drive • voltage trigger • No • voltage trigger No Short circuit • white the started value • short-circuit current making capacity ((cm) for switch disconnector • at 400 V AC without fuse link rated value minimum • at 1000 V AC without fuse link rated value minimum • at 500 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse rated value • at 550 V by gG fuse	<u> </u>	
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Product details product component • trip indicator • voltage trigger • undervoltage release • undervoltage release with leading contact product extension auxiliary switch product extension auxiliary switch • voltage trigger • notor drive • voltage trigger Short circuit short-time withstand current (low) at 1000 V AC/440 V DC limited to 1 s rated value short-circuit current making capacity (lom) for switch disconnector • at 400 V AC without fuse link rated value minimum • at 1000 V AC without fuse link rated value minimum • at DC 440 V without fuse link rated value minimum • without fuse link rated value minimum • without fuse link rated value minimum 12 kA • at 500 V by gG fuse rated value • at 500 V by gG fuse rated value • at 500 V by gG fuse rated value • at 500 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by GG fuse rated value • at 650 V by	•	
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type of connectable conductor cross-sections with flexible busbar type of connectable conductor cross-sections • for copper busbar type of connectable conductor cross-sections • for copper busbar type of connectable conductor cross-sections for copper conductor • solid • solid • finely stranded with core end processing • stranded 1x (2.5 16 mm²) • stranded 1x (10 70 mm²) type of electrical connection for main current circuit Mechanical Design height 126 mm		
type of connectable conductor cross-sections with flexible busbar type of connectable conductor cross-sections • for copper busbar type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded type of electrical connection for main current circuit Mechanical Design height 3x (0.8x14 mm²) 1x (3 x 14 mm²) 1x (3 x 14 mm²) 1x (2.5 16 mm²) 1x (2.5 70 mm²) 1x (10 70 mm²) 1x (10 70 mm²) 1x (10 70 mm²) 1x (10 70 mm²)		
type of connectable conductor cross-sections • for copper busbar type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded type of electrical connection for main current circuit Mechanical Design height 1x (3 x 14 mm²) 1x (3 x 14 mm²) 1x (2.5 16 mm²) 1x (2.5 70 mm²) 1x (10 70 mm²) box terminal	type of connectable conductor cross-sections with flexible	3x (0.8x14 mm²)
type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded 1x (2.5 16 mm²) 1x (2.5 70 mm²) • stranded 1x (10 70 mm²) type of electrical connection for main current circuit Mechanical Design height 126 mm		'1 x (3 x 14 mm²)
● finely stranded with core end processing ■ stranded ■ stranded ■ 1x (2.5 70 mm²) type of electrical connection for main current circuit ■ box terminal Mechanical Design ■ 126 mm	type of connectable conductor cross-sections for copper	
● stranded 1x (10 70 mm²) type of electrical connection for main current circuit box terminal Mechanical Design height 126 mm	• solid	1x (2.5 16 mm²)
type of electrical connection for main current circuit box terminal Mechanical Design height 126 mm	 finely stranded with core end processing 	1x (2.5 70 mm²)
Mechanical Design height 126 mm	• stranded	1x (10 70 mm²)
height 126 mm	type of electrical connection for main current circuit	box terminal
<u> </u>	Mechanical Design	
width 148 mm	height	126 mm
	width	148 mm

depth	97 mm
fastening method	Screw fixing and standard rail mounting 35 mm
fastening method	
 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
Certificates	
reference code according to IEC 81346-2	Q
Approvals Certificates	

Confirmation

General Product Approval





Miscellaneous





Declaration of Con-

formity

Declaration of Conformity

Test Certificates

Marine / Shipping

other



Type Test Certificates/Test Report





Miscellaneous

Confirmation

Environment

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3KD3442-2NE10-0

 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

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

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

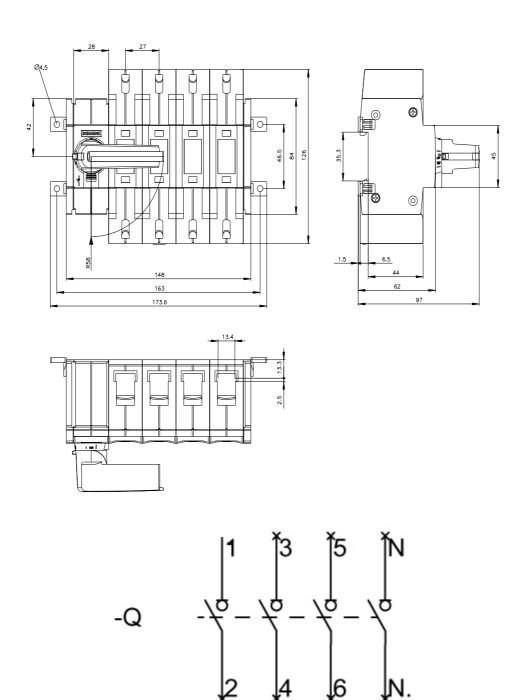
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3442-2NE10-0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

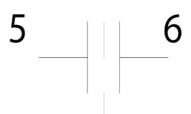
http://www.siemens.com/specifications



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