SIEMENS

Data sheet 3KD2830-2ME10-0



SWITCH-DISCONNECTOR 80A, FRAME SIZE 1, 3-POLE FRONT OPERATING LEFT BASIC UNIT WITHOUT HANDLE BOX TERMINAL

Model	
product brand name	SENTRON
product designation	3KD switch disconnector
design of the product	Switch
display version / for switch position indicator door-coupling rotary operating mechanism	ON-OFF
design of the actuating element	Without handle
type of the driving mechanism	Front operating mechanism
type of the driving mechanism / motor drive	No
General technical data	
number of poles	3
type of device	fixed mounting
size of switch disconnector	1
mechanical service life (switching cycles) / typical	15 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
• at DC-23 A / at 440 V	1 500
l2t value	
 with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum 	2 331 A ² ·s
 of the fuse / at 500 V / maximum permissible 	34 000 A²·s
 of the gG fuse / at 690 V / maximum permissible 	55 000 A²·s
 of the gG/aM SITOR fuse / at 1000 V / maximum permissible 	6 000 A²·s
 of the molded case circuit breaker / at 415 V / maximum permissible 	480 000 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

on the front	IP20
Dissipation	
power loss [W]	
with conventional rated thermal current / per pole	2.1 W
with conventional rated thermal current / per device	6.3 W
 for rated value of the current / at AC / in hot 	2.1 W
operating state / per pole	
Current	
operational current	
 at 35 °C / rated value 	80 A
 at 40 °C / rated value 	80 A
 at 45 °C / rated value 	80 A
 at 50 °C / rated value 	80 A
• at 55 °C / rated value	80 A
• at 60 °C / rated value	80 A
• at 65 °C / rated value	80 A
 at 70 °C / rated value at AC / rated value 	80 A 80 A
at AC-23 A / at 690 V / rated value at AC-23 A / at 690 V / rated value	80 A
• at AC-23 A / at 500 V / rated value	80 A
• at AC-23 A / at 400 V / rated value	80 A
• at AC-22 A / at 1000 V / maximum	80 A
at AC-22 A / at 690 V / rated value	80 A
at AC-22 A / at 500 V / rated value	80 A
at AC-22 A / at 400 V / rated value	80 A
 at AC-20 A / at 1000 V / maximum 	80 A
at AC-21 A / at 500 V / rated value	80 A
at AC-21 A / at 690 V / rated value	80 A
 at DC-20 A / at 1000 V / maximum 	80 A / 1
at DC-23 A / at 440 V / rated value / note	80 A / 3
at DC-23 A / at 220 V / rated value / note	80 A / 2
at DC-22 A / at 440 V / rated value / note	80 A / 3
at DC-22 A / at 220 V / rated value / note	80 A / 2
at DC-21 A / at 440 V / rated value / note	80 A / 3
• at DC-21 A / at 220 V / rated value	80 A / 2
continuous current / of upstream fuse / at 500 V and 690 V / rated value	100 A
continuous current / of upstream fuse / at 1000 V / rated value	100 A
continuous current / of upstream molded case circuit breaker / at 415 V / rated value	100 A
operational current / at DC / rated value	80 A
let-through current / of the fuse / at 500 V / maximum permissible	12 500 A
let-through current / of the gG fuse / at 690 V / maximum permissible	14 700 A
let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible	4 700 A
let-through current / of the molded case circuit breaker / at 415 V / maximum permissible	20 000 A
Main circuit	
operating power	
at AC-23 A / at 500 V / rated value	55 kW
operational current / rated value	80 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	4
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
Suitability	
suitability for use	W
main switch	Yes

and the later and a state	V	
switch disconnector FMEDOENOV OFF switch	Yes	
EMERGENCY OFF switch Section switch	Yes	
safety switchmaintenance/repair switch	Yes Yes	
Product details	165	
product component	No	
trip indicatorvoltage trigger	No	
undervoltage release	No	
undervoltage release with leading contact	No	
product extension / auxiliary switch	Yes	
product extension / optional		
motor drive	No	
 voltage trigger 	No	
Short circuit		
short-time withstand current (lcw) / at 1000 V AC/440 V	3 kA	
DC / limited to 1 s / rated value		
short-circuit current making capacity (lcm) / for switch disconnector		
 at 1000 V AC / without fuse link / rated value / minimum 	7 kA	
 at DC 440 V / without fuse link / rated value / minimum 	7 kA	
conditional short-circuit current / with line-side fuse protection		
 at 415 V / by molded case circuit breaker / rated value 	36 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	2x (0,8x9 mm²)	
type of connectable conductor cross-sections		
• for copper busbar	'1 x (2 x 9 mm²)	
type of connectable conductor cross-sections / for copper conductor	1 X (2 X 0 11111)	
• solid	1x (1 16 mm²)	
 finely stranded / with core end processing 	1x (1 35 mm²)	
stranded	1x (6 35 mm²)	
type of electrical connection / for main current circuit	box terminal	
Mechanical Design		
height	119 mm	
width	94 mm	
depth	68 mm	
fastening method	Screw fixing and standard rail mounting 35 mm	
fastening method		
4-hole front mounting front mounting with control attachment	No No	
front mounting with central attachment rail mounting	No Voc	
 rail mounting mounting position 	Yes	
net weight	any 788 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	
General Product Approval		Declaration of
Control of Frontier Approval		Conformity





Miscellaneous





Declaration of Conformity

Marine / Shipping

other





Environmental Confirmations **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=3KD2830-2ME10-0

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

https://support.industry.siemens.com/cs/ww/en/ps/3KD2830-2ME10-0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD2830-2ME10-0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







