# SIEMENS

### **Product data sheet**

#### 3KD1642-2ME10-0



SWITCH-DISCONNECTOR 16A, FRAME SIZE 1, 4-POLE FRONT OPERATING LEFT COMPLETE ASSEMBLY WITH DIRECT HANDLE GREY BOX TERMINAL

Similar to image

General technical details:				
product brand name		SENTRON		
Product designation		Switching device		
Design of the product		3KD Switch Disconnectors		
Size of switch disconnector		1		
Number of poles		4		
Continuous current				
rated value	А	16		
• at 40 °C / rated value	А	16		
• at 45 °C / rated value	А	16		
• at 50 °C / rated value	А	16		
• at 55 °C / rated value	А	16		
• at 60 °C / rated value	А	16		
• at 65 °C / rated value	А	16		
• at 70 °C / rated value	А	16		
at DC / rated value	А	16		
Operating current				
• at AC-21 A				
• at 400 V / maximum	А	16		

Active power loss / with conventional rated thermal current / per pole	W	0.2
tat 690 V / by gG fuse / rated value	kA	100
at 500 V / by gG fuse / rated value	kA	100
Conditional short-circuit current / with line-side fuse protection		
disconnector / without fuse link / rated value / minimum		
Making capacity short-circuit current (Icm) / for switch	- kA	7
Short-time current resistance (Icw) / limited to 1 s / rated value		3
with combination switch +aM fuse / maximum permissible	А	7,500
• at 690 V	~	7,000
• at 500 V / maximum permissible	A	7,000
tor combination switch + fuse     • at 400 V / maximum permissible	А	7,000
for combination switch + fuse		
Let-through current / with closed switch	7.3	10,100
<ul> <li>at 690 V</li> <li>for combination switch +gG fuse / maximum</li> </ul>	A²-s	13,700
• at 690 V	<u>د، ب</u>	10,000
• at 500 V / maximum	A <sup>2</sup> ·S	13,300
tor combination switch + fuse         • at 400 V / maximum	A²-s	13,300
for combination switch + fuse		
I2t value / with closed switch	NVV	
• at 500 V / at 50/60 Hz / rated value	kW	1.5
<ul> <li>at 400 V / at 50/60 Hz / rated value</li> <li>at 500 V / at 50/60 Hz / rated value</li> </ul>	kW	7.5
<ul> <li>Operating power / at AC-23 A</li> <li>at 400 V / at 50/60 Hz / rated value</li> </ul>	kW	7.5
Overvoltage class		
Impulse voltage resistance / rated value	kV	8
Insulation voltage / rated value	V	1,000
with 3 current paths in series / with DC / rated value	V	440
at 50/60 Hz / for AC / rated value	V	690
Operational voltage	, <i>.</i>	
• at 690 V / at 50/60 Hz / rated value / maximum	A	16
• at 500 V / at 50/60 Hz / rated value / maximum	A	16
• at 400 V / at 50/60 Hz / rated value / maximum	A	16
• at AC-23 A		
• at 690 V / at 50/60 Hz / rated value / maximum	А	16
• at 500 V / at 50/60 Hz / rated value / maximum	А	16
• at 400 V / at 50/60 Hz / rated value / maximum	А	16
• at AC-22 A		
• at 690 V / maximum	А	16

Product equipment / interlock		Yes
Type of the driving mechanism / motor drive		No
Product extension / optional / motor drive	-	No
Design of the electrical connection / for main current circuit		Box terminal
Type of connectable conductor cross-sections		Dox terminar
for copper conductor		
		$1 \times (1 - 16 \text{mm}^2)$
• solid • stranded		1x (1 16mm <sup>2</sup> )
		1x (6 35mm <sup>2</sup> )
finely stranded / with end sleeve		1x (1 35mm <sup>2</sup> )
• with flexible busbar		2x (0.8x9 mm <sup>2</sup> )
Number of connected NC contacts / for auxiliary contacts		0
Number of connected NO contacts / for auxiliary contacts	-	0
Number of connected changeover contacts / for auxiliary contacts		0
Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of changeover contacts / for auxiliary contacts		4
Acceptability for application / switch disconnector		Yes
Acceptability for application		
emergency stop switch		No
main switch		Yes
safety cut-out switch		Yes
maintenance/repair switch		Yes
Design of the operating mechanism		manual operating mechanism
Mounting type		Floor mounting and snap-on mounting to 35 mm standard mounting rail
Mounting type / rail mounting		Yes
Mounting type / front mounting with 4-hole attachment		No
Mounting type / front mounting with central attachment		No
Type from device		fixed mounting
mounting position		any
Position / of switch operating mechanism		at the left end
Design of handle		direct handle, grey
Width	mm	112
Height	mm	119
Depth	mm	87
Protection class IP		IP20
• on the front		IP20
<ul> <li>with closed switch / with cover or cable lug cover</li> </ul>		IP20
-		

	1	
Ambient temperature		
during operating	°C	-25 +70
during storage	°C	-50 +80
Degree of pollution		3
Mechanical operating cycles as operating time / typical		15,000
Electrical endurance (switching cycles)		
• at AC-23 A / at 690 V / at 50/60 Hz		6,000
• at DC-23 A		
• at 220 V		1,500
• at 440 V		1,500
Design of display		
<ul> <li>for switch position indicator manual operation</li> </ul>		ON-OFF-TEST
Net weight	g	800
Reference code / according to DIN EN 61346-2		Q
Item designation / according to DIN EN 81346-2		Q

Certificates/approvals:

General Product Declaration of Conformity Approval





#### **Further information:**

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

#### Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3KD1642-2ME10-0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3KD1642-2ME10-0/all

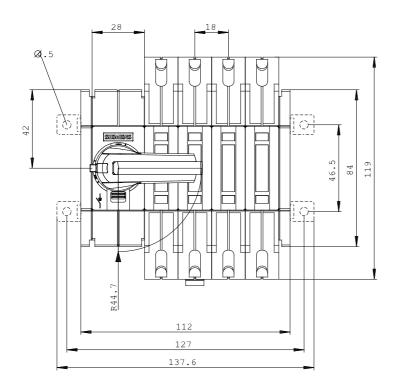
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KD1642-2ME10-0

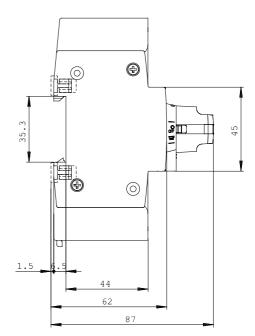
## CAx-Online-Generator

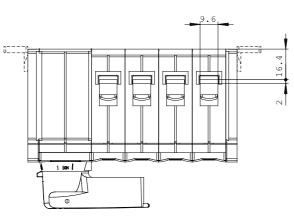
http://www.siemens.com/cax

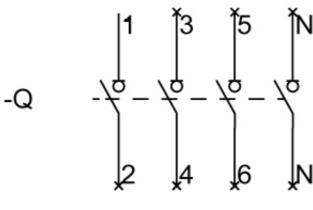
#### Tender specifications

Datanorm GAEB81 GAEB83 RTF TXT









last change:

Apr 21, 2014