## **SIEMENS**

Data sheet 3KD3440-2NE10-0

SWITCH-DISCONNECTOR 160A, FRAME SIZE 2, 4-POLE FRONT OPERATING LEFT BASIC UNIT WITHOUT HANDLE BOX TERMINAL



Model	
product brandname	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 operating mechanism	Without handle
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
Electrical endurance (switching cycles)	
● at AC-23 A / at 690 V / at 50/60 Hz	1 500
• at DC-23 A / at 440 V	1 000
<ul> <li>I2t value / with closed switch / for combination switch + fuse / at 500 V / maximum</li> </ul>	135 600 A²·s
• I2t value / with closed switch / for combination switch + fuse / at 400 V / maximum	135 600 A <sup>2</sup> ·s

<ul> <li>I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum</li> </ul>	178 300 A²·s
<ul> <li>I2t value / with closed switch / at 690 V / for combination switch + aM fuse / maximum</li> </ul>	201 200 A²-s
<ul> <li>I2t value / of the fuse / at 500 V / maximum permissible</li> </ul>	223 005 A²·s
<ul> <li>I2t value / of the gG fuse / at 690 V / maximum permissible</li> </ul>	226 005 A²·s
circuit-breaker / Design	3KD3
Mechanical service life (switching cycles) / typical	15 000
Position / of the switch operating mechanism	at the left end
Overvoltage category	III
Voltage	
Operating voltage / with current paths in series	
<ul> <li>with degree of pollution 2 / at DC / rated value / Note</li> </ul>	440 V / 3
• with degree of pollution 3 / at DC / rated value / Note	440 / 3
Insulation voltage	
• rated value	1 000 V
Surge voltage resistance / rated value	8 kV
Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz	10 %
Protection class	
Protection class Protection class IP	IP20
	IP20
Protection class IP	IP20 IP20
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug	
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover	IP20
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover  • on the front	IP20
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover  • on the front  Dissipation	IP20
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover  • on the front  Dissipation  Power loss [W]  • with conventional rated thermal current / per	IP20 IP20
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover • on the front  Dissipation  Power loss [W]  • with conventional rated thermal current / per pole	IP20 IP20
Protection class IP  Protection class IP  • with closed switch / with cover or cable lug cover  • on the front  Dissipation  Power loss [W]  • with conventional rated thermal current / per pole  Electricity  • Operating current / at AC-21 A / at 400 V /	IP20 IP20 7 W
Protection class IP  Protection class IP  with closed switch / with cover or cable lug cover  on the front  Dissipation  Power loss [W]  with conventional rated thermal current / per pole  Electricity  Operating current / at AC-21 A / at 400 V / maximum  Operating current / at AC-21 A / at 500 V /	IP20 IP20 7 W
Protection class IP  • with closed switch / with cover or cable lug cover • on the front  Dissipation  Power loss [W] • with conventional rated thermal current / per pole  Electricity • Operating current / at AC-21 A / at 400 V / maximum • Operating current / at AC-21 A / at 500 V / maximum • Operating current / at AC-21 A / at 690 V /	IP20  7 W  160 A  160 A

160 A
160 A
160 A
160 A
125 A
160 A
18 005 A
16 005 A
17 600 A
18 700 A
18 700 A 17 900 A
17 900 A
17 900 A
17 900 A 17 900 A
17 900 A 17 900 A 4 kA
17 900 A 17 900 A 4 kA
17 900 A 17 900 A 4 kA
17 900 A  17 900 A  4 kA 4 kA
17 900 A  17 900 A  4 kA 4 kA

• at AC / at 50/60 Hz / rated value	690 V
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
Suitability	
Suitability for use	
Main switch	Yes
• switch disconnector	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	Yes
• safety switch	Yes
• maintenance/repair switch	Yes
Product details	
Product feature / interlock	No
Product component	
Trip indicator	No
Voltage trigger	No
<ul> <li>undervoltage release</li> </ul>	No
<ul> <li>undervoltage release with leading contact</li> </ul>	No
Product extension	
<ul> <li>Auxiliary switch</li> </ul>	Yes
• optional	
— motor drive	No
— Voltage trigger	No
Short circuit	
<ul> <li>Short-circuit current making capacity (Icm) / for switch disconnector / at 690 V AC/440 V DC / without fuse link / rated value / minimum</li> </ul>	12 kA
<ul> <li>Short-circuit current making capacity (lcm) / for switch disconnector / without fuse link / rated value / minimum</li> </ul>	12 kA
Conditional short-circuit current	
<ul> <li>with line-side fuse protection / at 500 V / by gG fuse / rated value</li> </ul>	100 kA
Connections	
Type of connectable conductor cross-sections / for copper conductor / solid	1x (2.5 16 mm²)

<ul> <li>Type of connectable conductor cross-sections / for copper conductor / finely stranded / with core end processing</li> <li>Type of connectable conductor cross-sections /</li> </ul>	1x (2.5 70 mm²)  1x (10 70 mm²)
for copper conductor / stranded	
Type of electrical connection	
• for main current circuit	Box terminal

Mechanical Design	
Height	126 mm
Width	148 mm
Depth	68 mm
Mounting position	any
Mounting type	Screw fixing and standard rail mounting 35 mm
Mounting type	
<ul> <li>front mounting with 4-hole attachment</li> </ul>	No
<ul> <li>front mounting with central attachment</li> </ul>	No
• rail mounting	Yes
Net weight	1 200 g

Environmental conditions	
Degree of pollution	3
Ambient temperature	
<ul><li>during operation / minimum</li></ul>	-25 °C
<ul><li>during operation / maximum</li></ul>	70 °C
<ul> <li>during storage / minimum</li> </ul>	-50 °C
<ul> <li>during storage / maximum</li> </ul>	80 °C

Certificates	
Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	O

General Product Approval		Declaration of Conformity		
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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=3KD3440-2NE10-0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3KD3440-2NE10-0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KD3440-2NE10-0

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications







