



AFDD-MCB-Combination 230V, 6kA, 1+N, C, 10A Compact (1MW)

Model	
product brand name	SENTRON
design of the product	Compact unit
General technical data	
number of poles	2
design of pole	1P+N
tripping characteristic class	C
size of installation devices / according to DIN 43880	1
touch protection against electrical shock / according to EN 50274	finger and back-of-hand safe
mechanical service life (switching cycles) / typical	10 000
switching function / short-term delayed	No
overvoltage category	III
degree of pollution	2
type of voltage / of the operating voltage	AC
Supply voltage	
supply voltage	
• at AC / rated value	230 V
value range / of the supply voltage frequency	50Hz
Protection class	
protection class IP	IP20, with connected protective device and conductors
Switching capacity	
switching capacity current	
• according to EN 60898-1 / rated value	6 000 A
• according to IEC 60947-2 / rated value	6 000 A
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.66 W
Current	
tripping current	
• in the event of electrical arcs in parallel with the load / minimum	50 A
• in the event of electrical arcs in parallel with the load / maximum	500 A
• in the event of electrical arcs in series with the load / minimum	2 A
• in the event of electrical arcs in series with the load / maximum	10 A
operational current / at AC / rated value	10 A
Product details	

product feature	
• halogen-free	Yes
• silicon-free	Yes
product extension / installable / supplementary devices	Yes

Connections

connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm ²
• maximum	10 mm ²
tightening torque / with screw-type terminals	
• minimum	1.2 N·m
• maximum	2 N·m
position / of power supply cord	any

Mechanical Design

height	90 mm
width	18 mm
depth	68.5 mm
installation depth	70 mm
number of modular width units	1
fastening method	DIN rail (REG)
mounting position	any
net weight	150 g

Environmental conditions

ambient temperature / during operation	
• minimum	-25 °C
• maximum	45 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
ambient temperature / with relative humidity 95%	55 °C
number of test cycles / for environmental testing / according to IEC 60068-2-30	28

General Product Approval	Declaration of Conformity	Test Certificates
---------------------------------	----------------------------------	--------------------------

[Confirmation](#)



[Miscellaneous](#)

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?mfib=5SV6016-7KK10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV6016-7KK10>

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





