



AFDD-MCB-Combination Measuring, Communication AC 230V 6kA, 1+N pole, C, 6A Please consider Radio approval! List of countries: see Certificates

Model	
product brand name	SENTRON
product designation	AFDD-MCB combination
design of the product	Compact unit
type of measured value detection	seamless
General technical data	
number of poles	2
design of pole	1P+N
apparent power consumption of the power supply	0.4 VA
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 (operating cycles) typical	10 000
measurable line frequency initial value	45 Hz
measurable line frequency full-scale value	60 Hz
switching function short-term delayed	No
overvoltage category	III
degree of pollution	2
status display of the measured data	voltage, current, active power, apparent power, reactive power, active energy, line frequency, power factor, temperature, switching cycles, operating hours, tripping, warnings
type of voltage of the operating voltage	AC
Supply voltage	
supply voltage	
• at AC rated value	230 V
• for testing equipment minimum	195 V
value range of the supply voltage frequency	50Hz
Protection class	
protection class IP	IP20, with connected protective device and conductors
protection class IP	
• on the front	IP40
• rear side	IP20
Breaking 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	0.9 W
suitability for use	
• ammeter	Yes

• reactive power meter • frequency meter • voltmeter • wattmeter	Yes Yes Yes Yes
Product details	
product feature	
• halogen-free • silicon-free	Yes Yes
product extension installable supplementary devices	Yes
Communication	
guideline via radio-controlled system	2014/53/EU
frequency with radio transmission minimum	2 400 MHz
frequency with radio transmission maximum	2 483.5 MHz
protocol is supported	wireless protocol
Fault limits	
standards for error limits	based on IEC61557-12, IEC62053-22, IEC62053-23
relative symmetrical measurement uncertainty [%]	
• for measured variable current • for measured variable voltage • for measured variable electrical energy • for measured variable reactive power • for measured variable apparent power • for measured variable active power	0.5 % 0.5 % 1 % 1 % 1 % 1 %
Measuring inputs	
measurable supply voltage between (PE)N and L at AC	
• minimum • maximum	185 V 255 V
measuring category for voltage measurement	CATIII according to IEC 61010-2-030
measuring procedure for current measurement	TRMS
measuring procedure for voltage measurement	TRMS
Connections	
connectable conductor cross-section solid	
• minimum • maximum	0.75 mm ² 16 mm ²
connectable conductor cross-section stranded	
• minimum • maximum	0.75 mm ² 16 mm ²
connectable conductor cross-section finely stranded with core end processing	
• minimum • maximum	0.75 mm ² 10 mm ²
tightening torque with screw-type terminals	
• minimum • maximum	1.2 N·m 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	120 g
Environmental conditions	
standard	
• for shocks • for environmental sinusoidal oscillation check	IEC 61373 IEC 60068-2-6
ambient temperature during operation	
• minimum • maximum	-25 °C 60 °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

Approvals Certificates

General Product Approval	Radio Equipment Type Approval Certificate
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[Confirmation](#)



[other radio approvals](#)

other	Environment
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[Miscellaneous](#)

[Confirmation](#)

[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=5SV6016-7MC06>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV6016-7MC06>

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

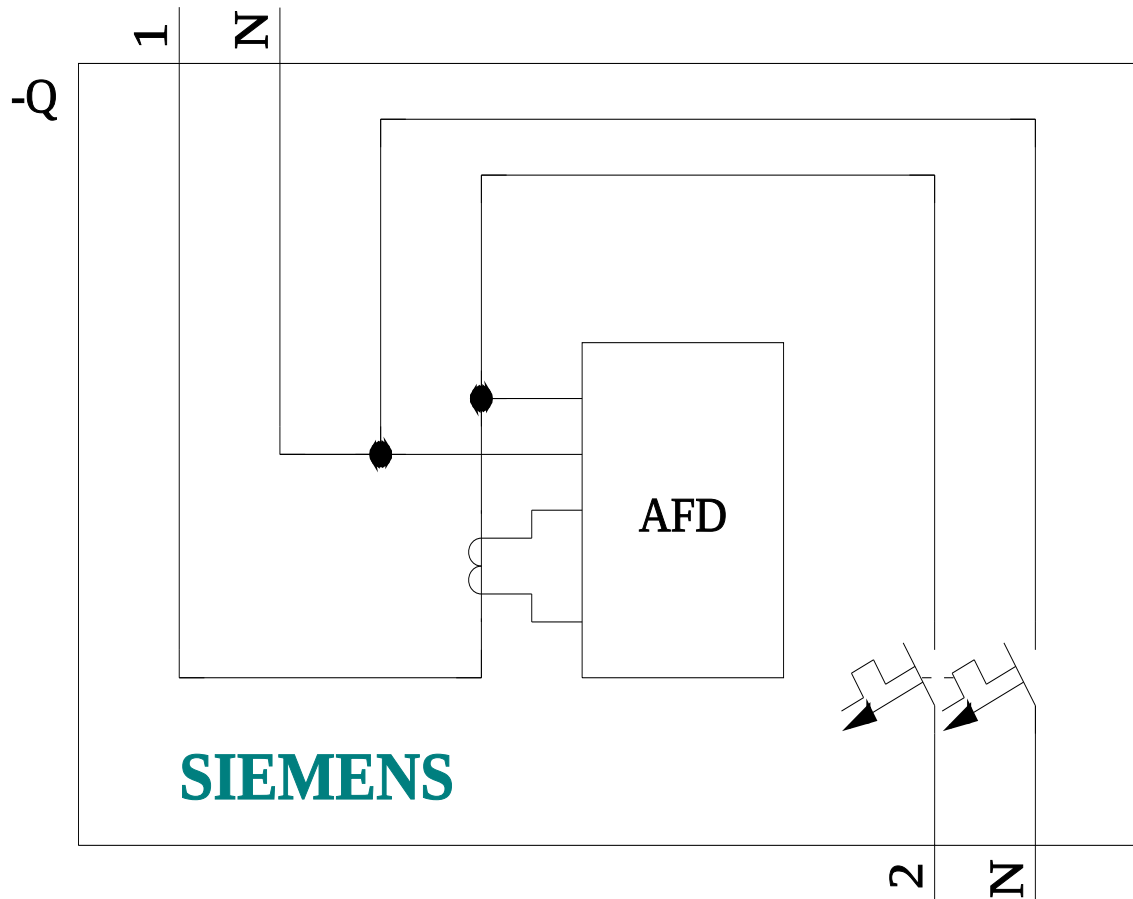
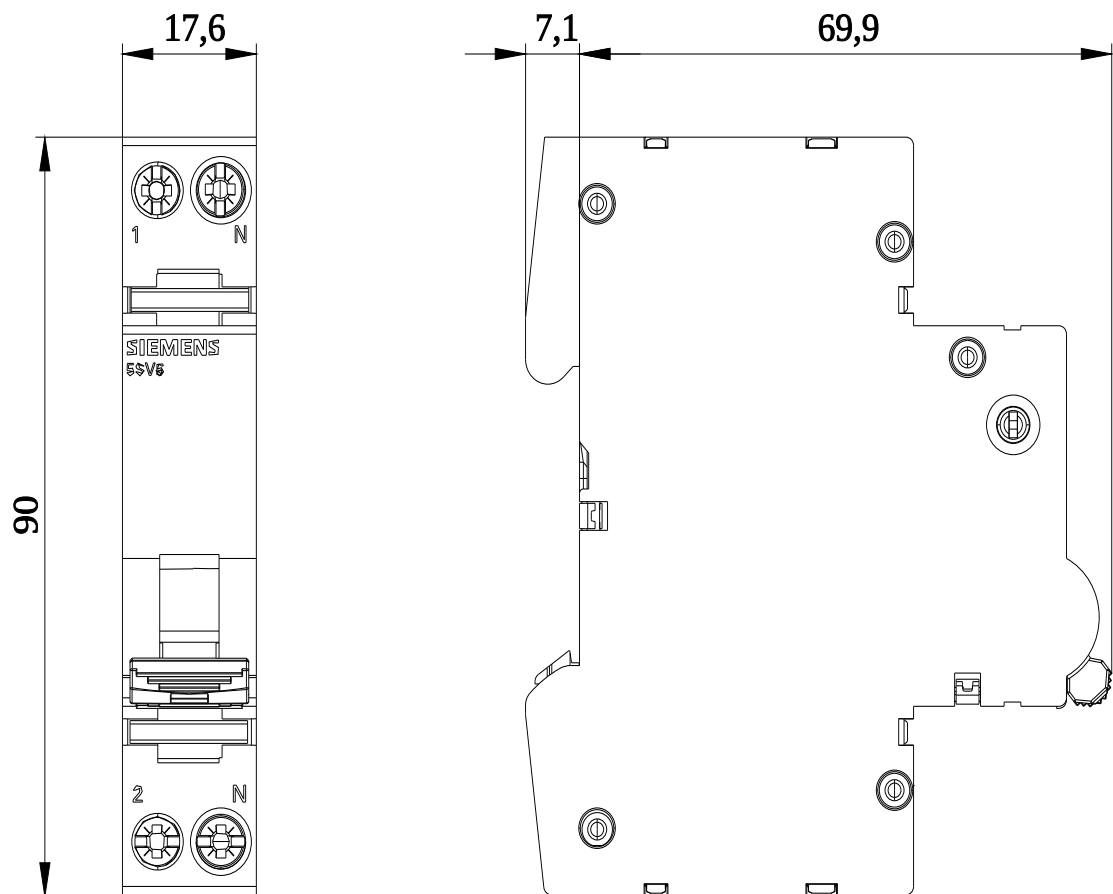
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV6016-7MC06

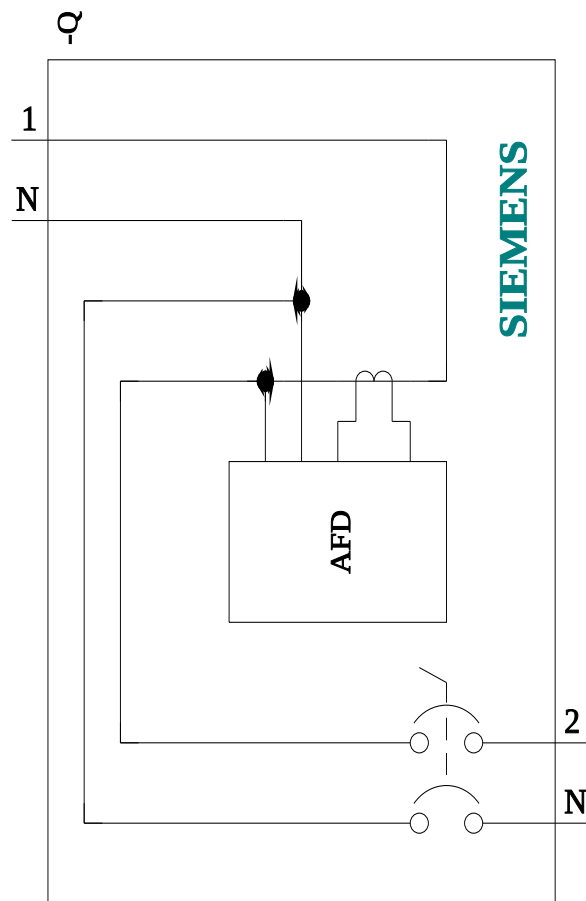
CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





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