



AFDD-RCBO-combination 230V, 30mA, Type A 6kA, 1+N, B, 16A compact (1MW) pigtail



Model	
product brand name	SENTRON
product designation	AFDD/electronic RCBO
design of the product	Compact unit
General technical data	
number of poles	2
design of pole	1P+N
tripping characteristic class	B
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
switching function short-term delayed	No
overvoltage category	3
degree of pollution	2
type of voltage of the operating voltage	AC
tripping fault current rated value	30 mA
Supply voltage	
supply voltage	
• at AC	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
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
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.35 W
Product details	
product feature halogen-free	Yes
product feature 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
mounting position	any
Net Weight	194 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

Certificates	
reference code according to IEC 81346-2	F

Approvals Certificates

Environment	General Product Approval
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[Environmental Confirmations](#)



[Environmental Confirmations](#)



[Confirmation](#)

General Product Approval	other
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[Confirmation](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV6316-6KP16>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV6316-6KP16>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV6316-6KP16

CAX-Online-Generator

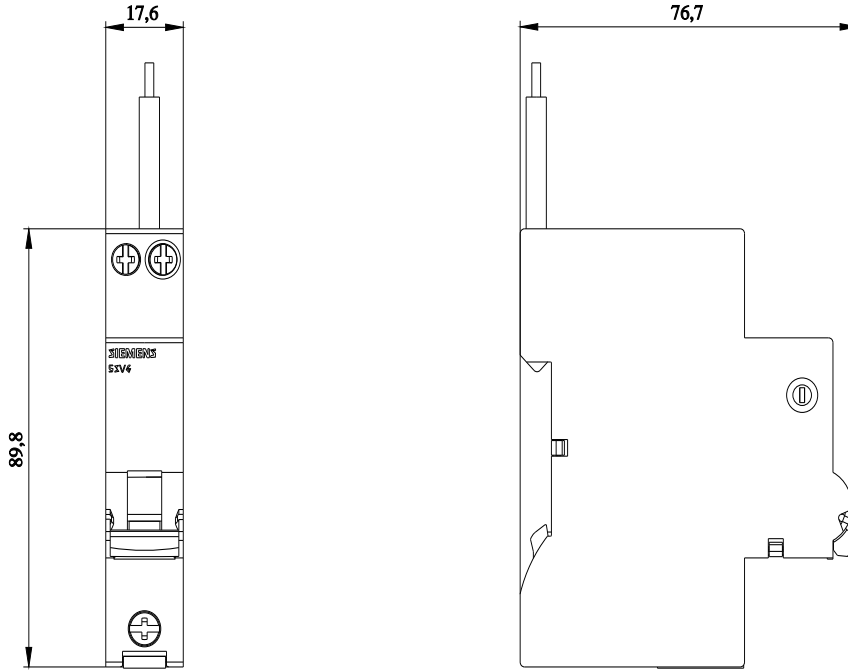
<https://www.siemens.com/cax>

Tender specifications

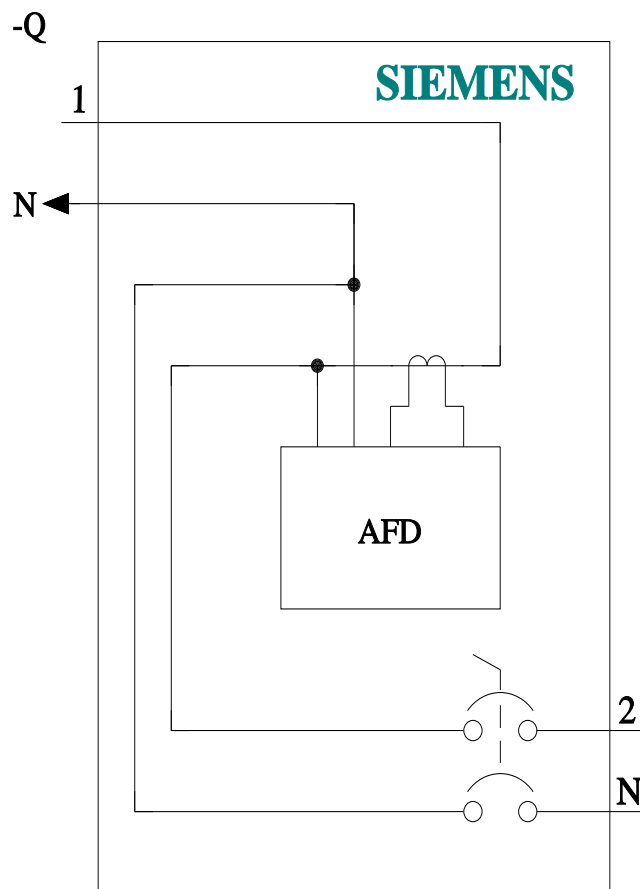
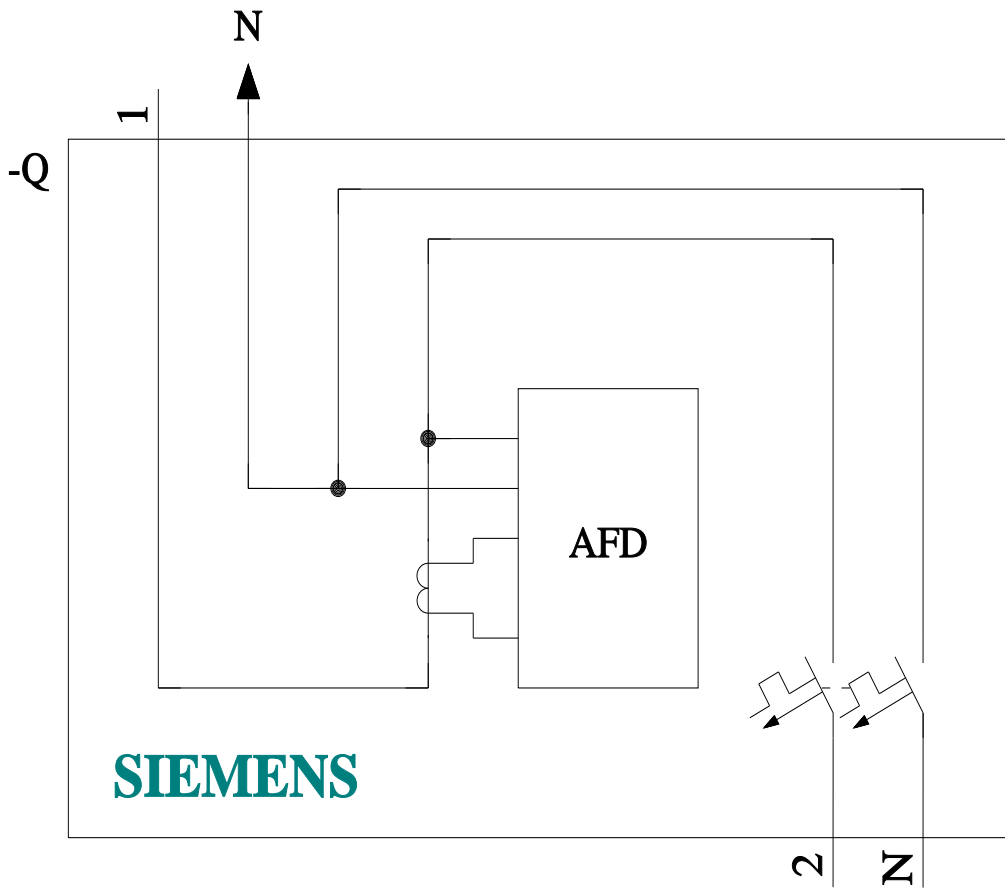
<https://www.siemens.com/specifications>

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>



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7/19/2025

