

Siemens  
EcoTech



AFDD-RCBOele 230V, 6kA, 1P+N, C, 20A Compact (1MW)



Figure similar

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	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
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	2.65 W
Product details	
product feature halogen-free	Yes
product feature silicon-free	Yes

product extension installable supplementary devices	Yes
<b>Connections</b>	
<b>connectable conductor cross-section solid</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	16 mm <sup>2</sup>
<b>connectable conductor cross-section stranded</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	16 mm <sup>2</sup>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	10 mm <sup>2</sup>
<b>tightening torque with screw-type terminals</b>	
• minimum	1.2 N·m
• maximum	2 N·m
<b>position of power supply cord</b>	any

<b>Mechanical Design</b>	
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
<b>Net Weight</b>	133 g

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

<b>Certificates</b>	
reference code according to IEC 81346-2	F

<b>Approvals Certificates</b>	
Environment	General Product Approval

[Environmental Confirmations](#)

[Environmental Confirmations](#)



[Confirmation](#)

<b>Test Certificates</b>	other
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[Miscellaneous](#)



[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=5SV6316-7KK20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV6316-7KK20>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV6316-7KK20](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV6316-7KK20)

CAx-Online-Generator

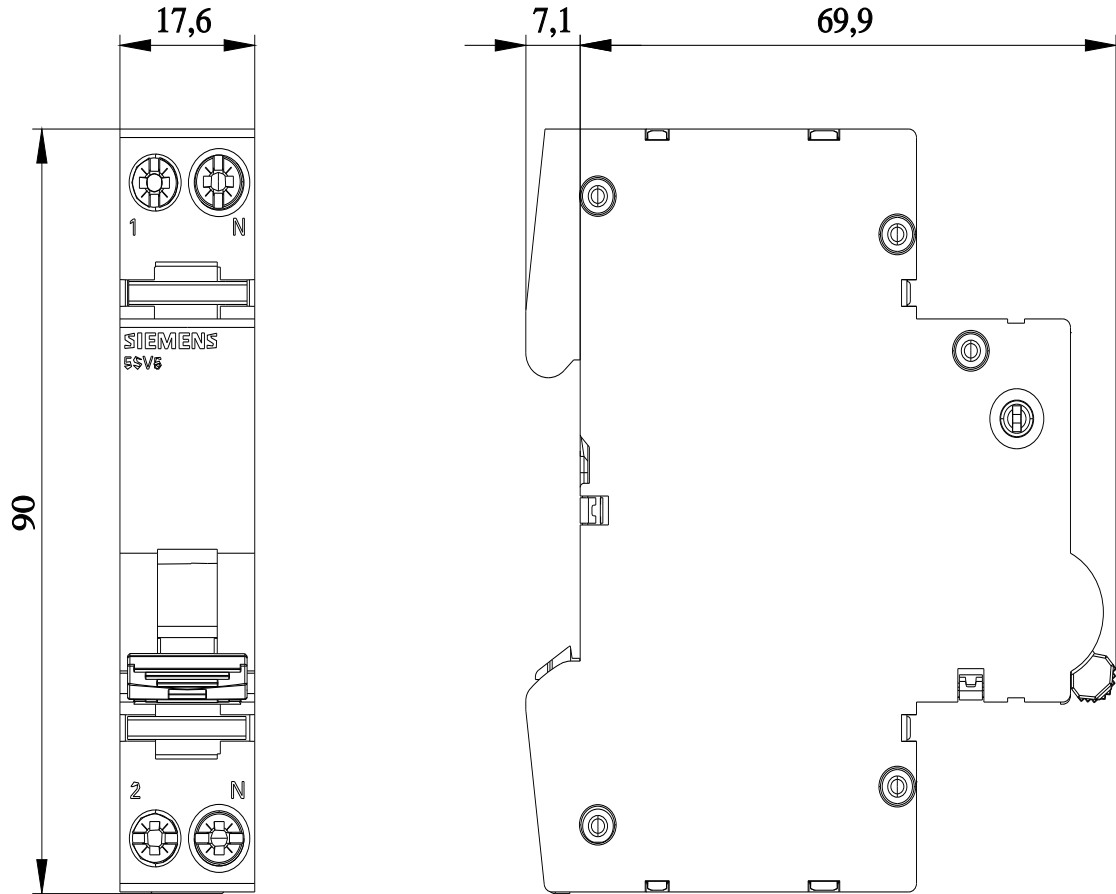
<https://www.siemens.com/cax>

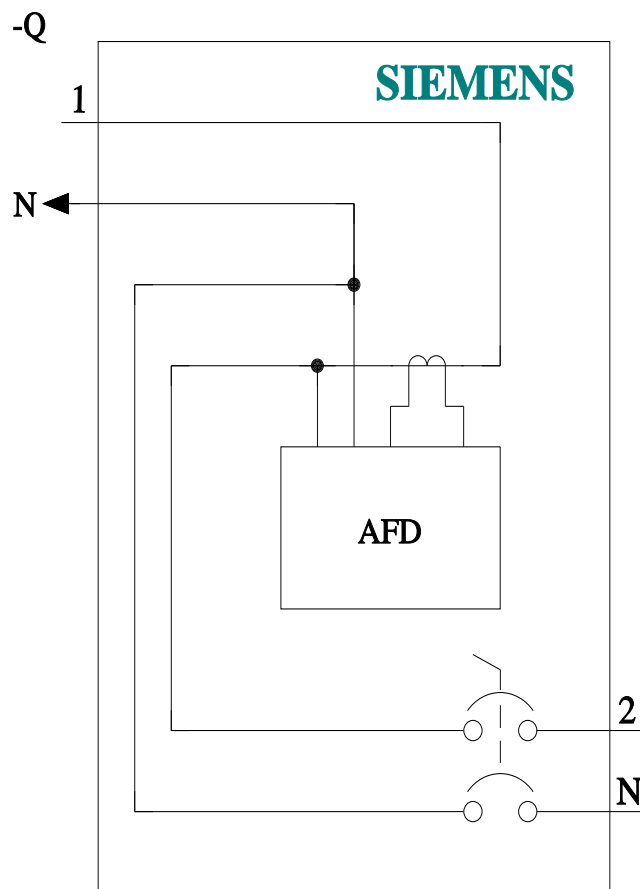
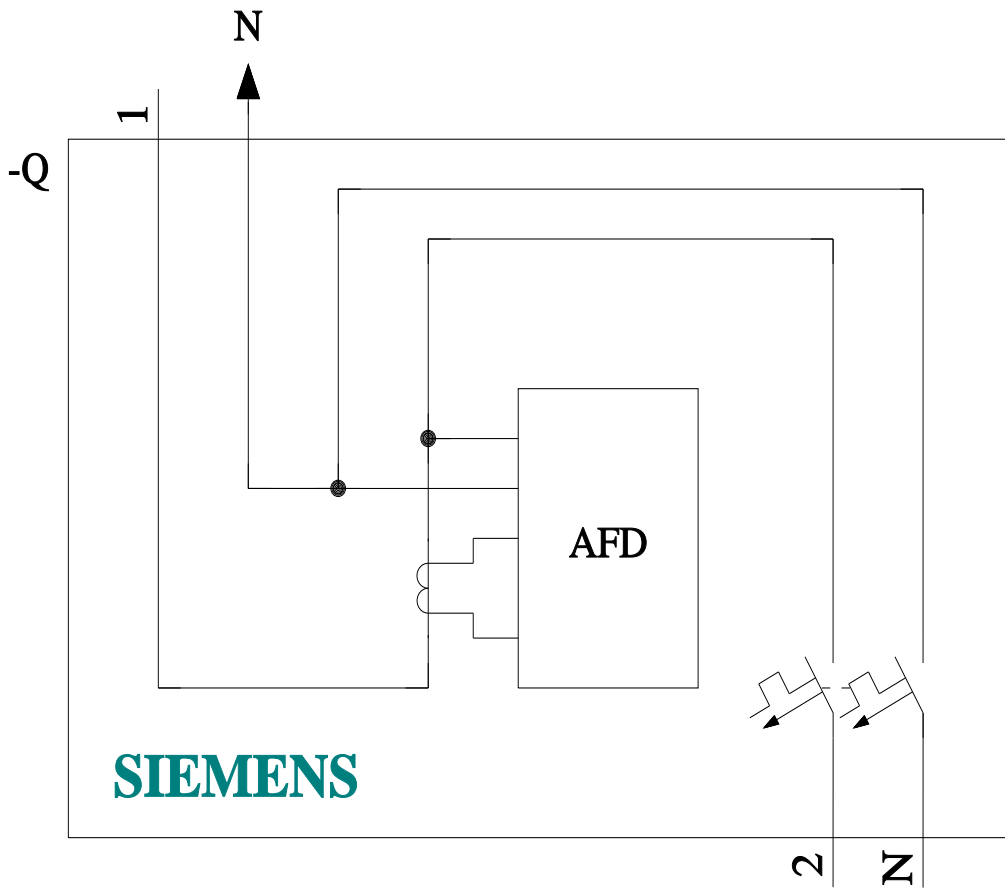
Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





last modified:

7/19/2025

