SIEMENS

## Data sheet 5SV6016-7KK06



Figure similar

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

| | |
|---|---|
| **Model** | |
| **product brand name** | SENTRON |
| **product designation** | AFDD/MCB |
| **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 |
| **Supply voltage** | |
| **supply voltage** | |
| ● at AC | 230 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 | 0.87 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 mm² |
| ● maximum | 16 mm² |


© Copyright Siemens

| | |
|---|---|
| **connectable conductor cross-section stranded** | |
| ● minimum | 0.75 mm² |
| ● maximum | 16 mm² |
| **connectable conductor cross-section finely stranded with core end processing** | |
| ● minimum | 0.75 mm² |
| ● maximum | 10 mm² |
| **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** | 133 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**

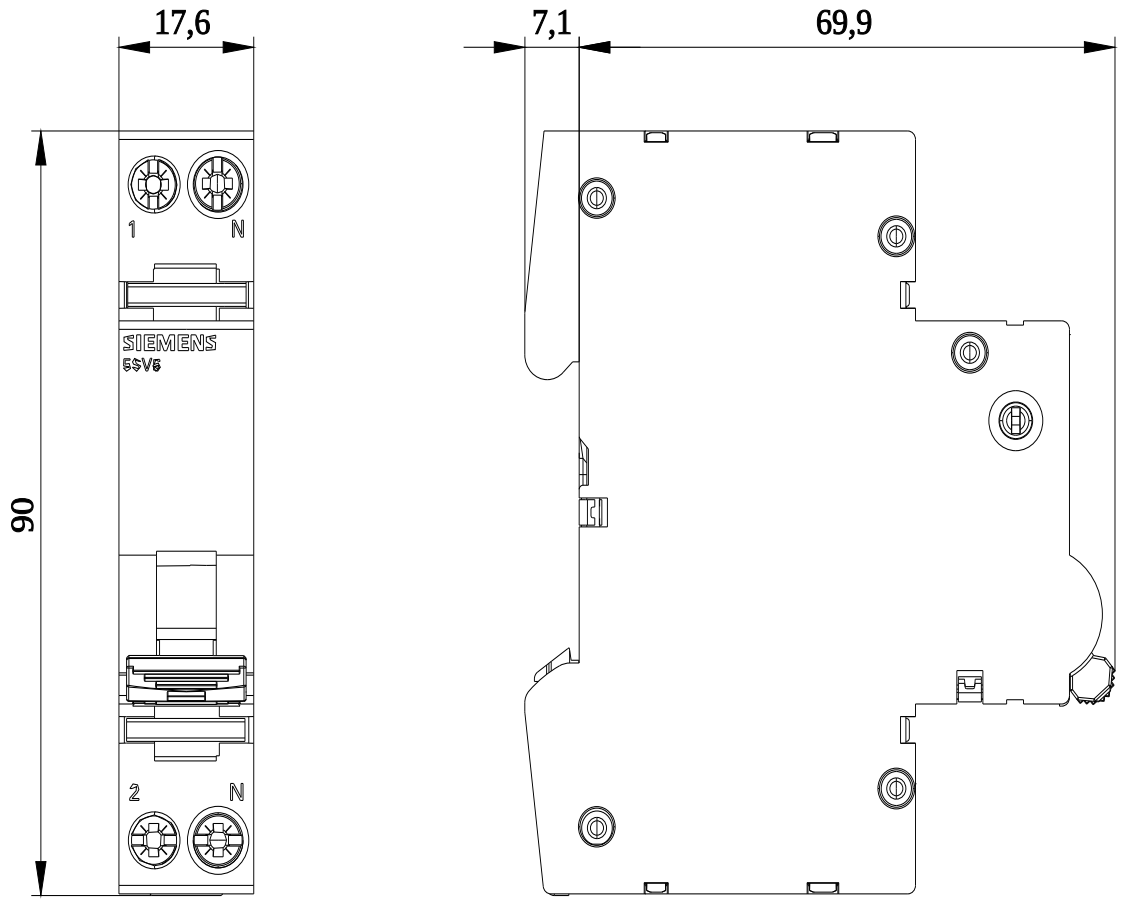
| General Product Approval | | | | Test Certificates | other |
|---|---|---|---|---|---|
| UKCA | CE EG-Konf. | DVE VDE | EAC | Miscellaneous | 产品合格 QC PASS |

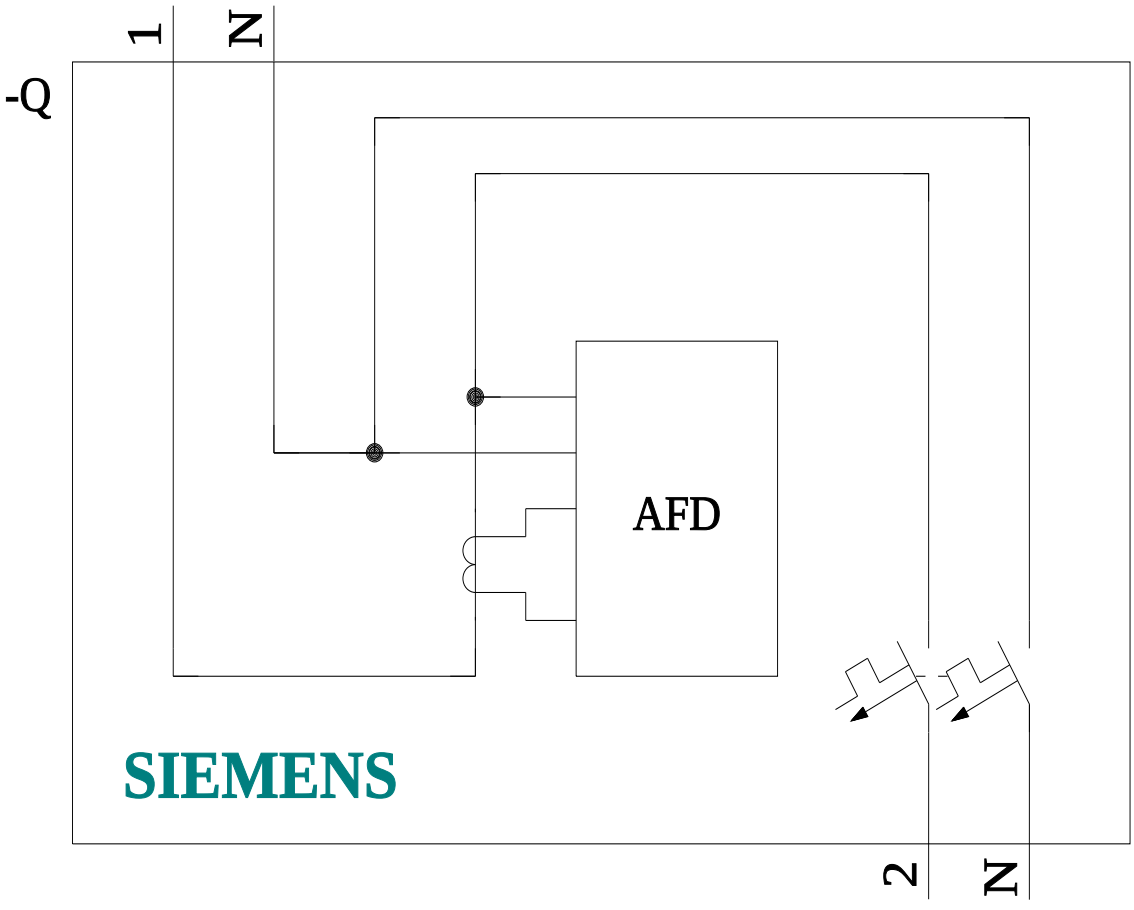
| other | Environment | | | |
|---|---|---|---|---|
| Confirmation | Siemens EcoTech | | Environmental Con-firmations | Environmental Con-firmations |

**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=5SV6016-7KK06
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SV6016-7KK06
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV6016-7KK06
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**

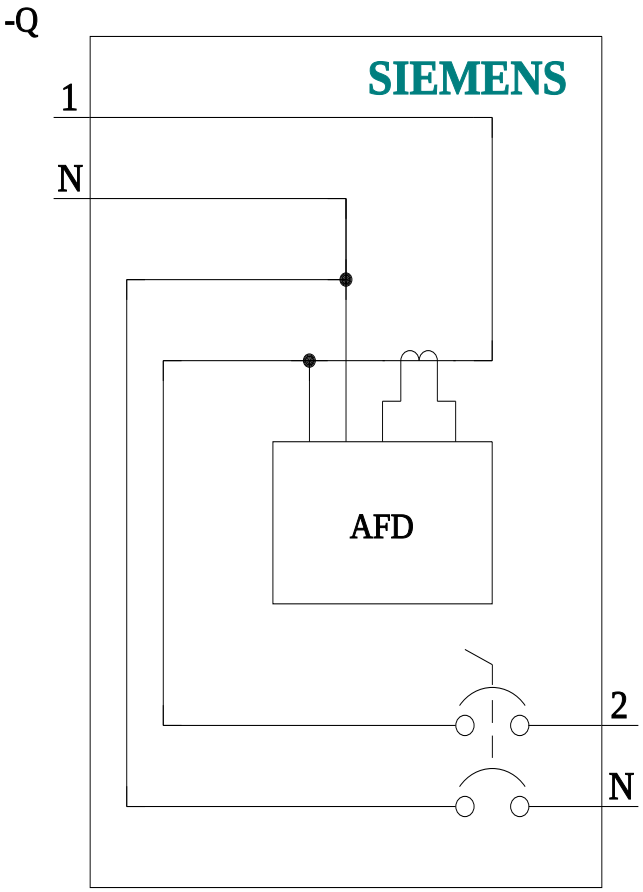

© Copyright Siemens





Subject to change without notice
© Copyright Siemens




**last modified:** 7/19/2025


Subject to change without notice
© Copyright Siemens

Subject to change without notice
© Copyright Siemens