SIEMENS

Data sheet 5SV6016-7KP25



Figure similar

AFDD-MCB-combination 230V, 6kA, 1+N, C, 25A compact (1MW) pigtail

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
● 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	1.45 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

Subject to change without notice
© Copyright Siemens

• maximum	16 mm²
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	160 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			other		Environment
UKCA	CE EG-Konf.	EAC	产品合格 QC PASS	Confirmation	Siemens EcoTech

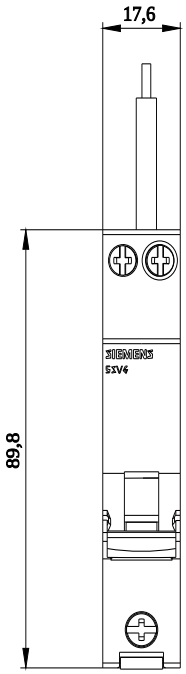
Environment

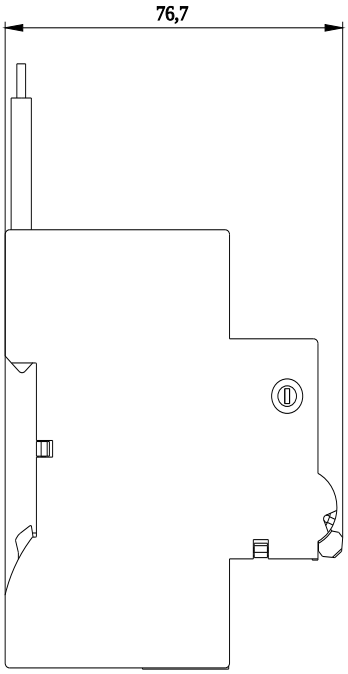
Environmental Con-firmations	Environmental Con-firmations

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=5SV6016-7KP25
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SV6016-7KP25
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV6016-7KP25
CAx-Online-Generator

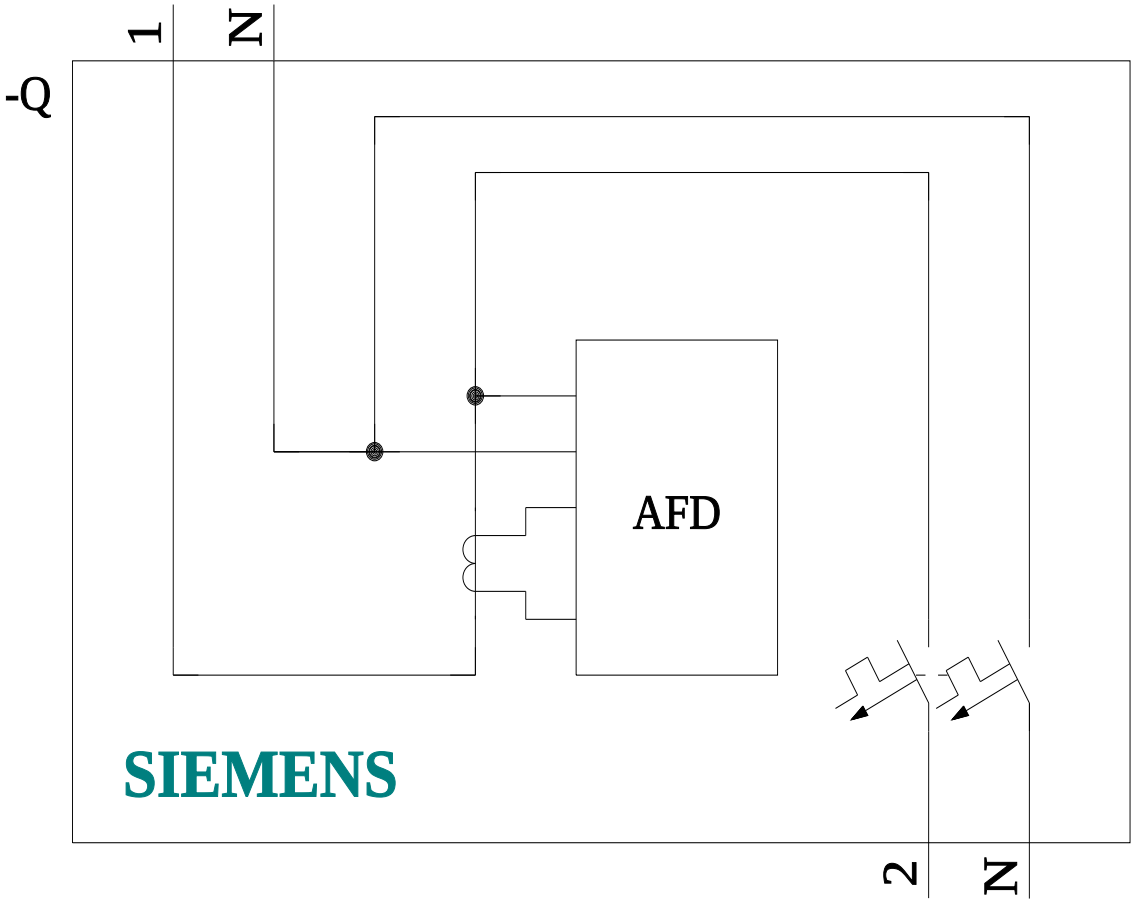
Subject to change without notice
© Copyright Siemens

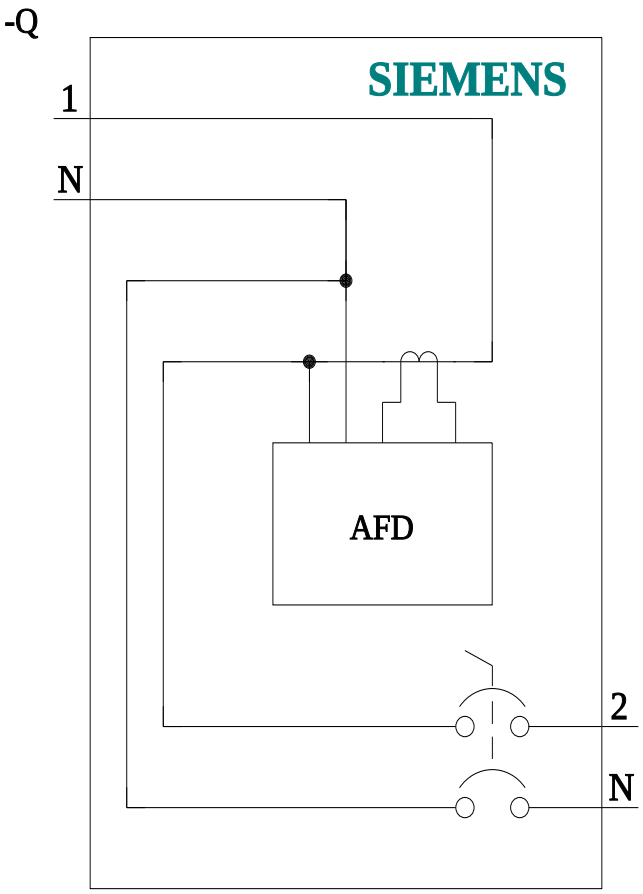




5SU6

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