SIEMENS

Data sheet 5SV1316-7KK10

RCBO compact 1 MW 1-pole+N 6 kA type A 30 mA C10

Siemens EcoTech

Figure similar

Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Instantaneous
General technical data	
number of poles	2
number of poles with protection	1
design of pole	1P+N
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) rated value	253 V
surge voltage resistance rated value	4 000 V
surge current resistance at (8/20) µs	1 kA
tripping fault current rated value	30 mA
operational current	
• at 30 °C rated value	10 A
• at 40 °C rated value	9.4 A
• at 45 °C rated value	9.1 A
• at 50 °C rated value	8.8 A
• at 55 °C rated value	8.4 A
• at 60 °C rated value	8.1 A
• at 65 °C rated value	7.7 A
• at 70 °C rated value	7.4 A
• at AC rated value	10 A
residual current type	A
Supply voltage	
supply voltage	
• at AC rated value	230 V
• for testing equipment minimum	195 V
operating frequency	50/60 Hz
supply voltage frequency rated value	50 Hz
Protection class	

protection class IP	IP20, if the distribution board is installed, with connected conductors
Breaking Capacity	
short-circuit current breaking capacity (Icn) according to EN 61009-1 rated value	6 kA
switching capacity current	
● according to EN 60898 rated value	6 kA
● according to IEC 60947-2 rated value	10 kA
rated residual switching capacity (IΔm) according to IEC 61009-1	4.5 kA
energy limitation class	3
Dissipation	
power loss [W]	
● maximum	1.9 W
Product details	
product feature touch protection	Yes
product component neutral conductor switching	Yes
product feature	
● halogen-free	Yes
● silicon-free	Yes
Connections	
connectable conductor cross-section solid	
● minimum	0.75 mm²
● 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	Either top or bottom
Mechanical Design	
height	90 mm
width	18 mm
depth	77 mm
installation depth	70 mm
number of modular width units	1
mounting position	any
net weight	131 g
weight with packaging	133 g
Environmental conditions	
influence of the surrounding temperature	Max. 95% humidity
ambient temperature during operation	
● minimum	-25 °C
● maximum	45 °C
ambient temperature during storage	
● minimum	-40 °C
● maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	17.95026 kg
global warming potential [CO2 eq] during manufacturing	1.32 kg
global warming potential [CO2 eq] during operation	16.6 kg
global warming potential [CO2 eq] after end of life	0.0016 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Approvals Certificates	

General Product Approval

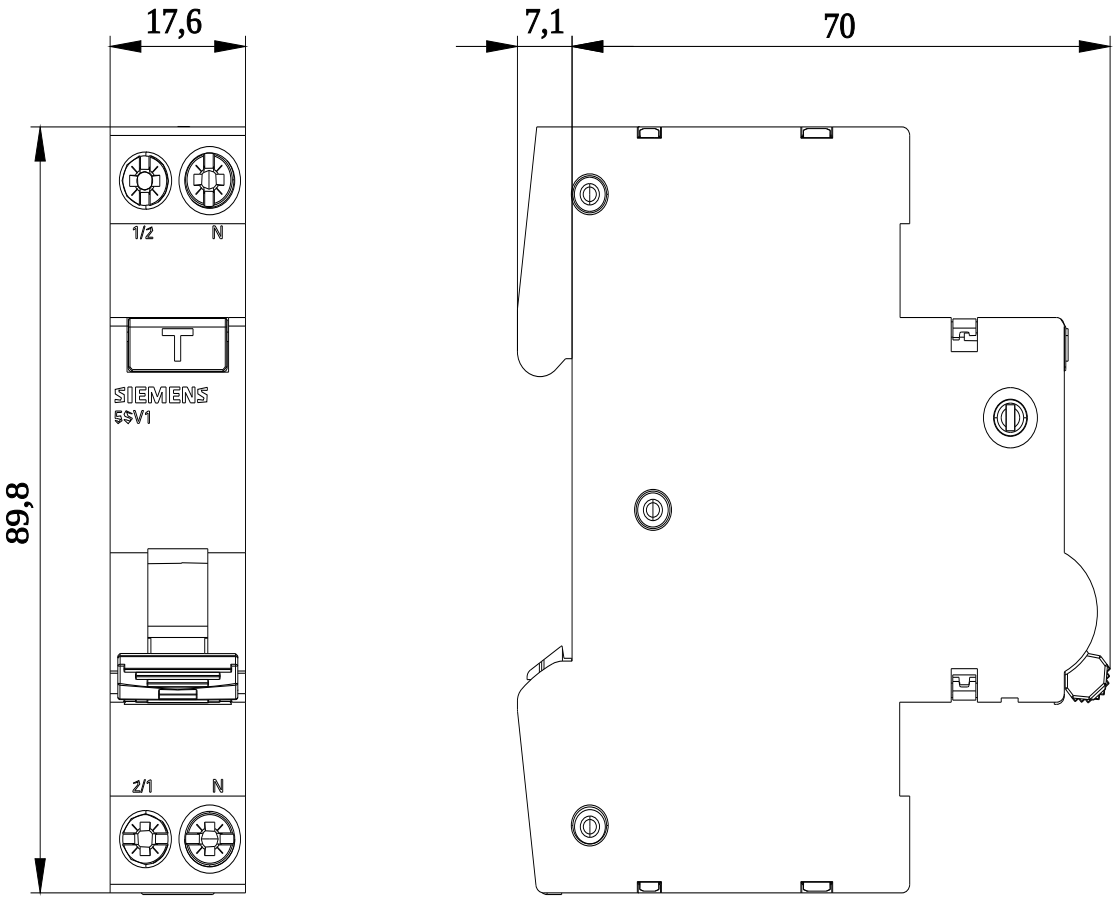
Test Certificates		other			Dangerous goods
Miscellaneous	Special Test Certific-ate	Miscellaneous	Confirmation	Miscellaneous	Transport Information

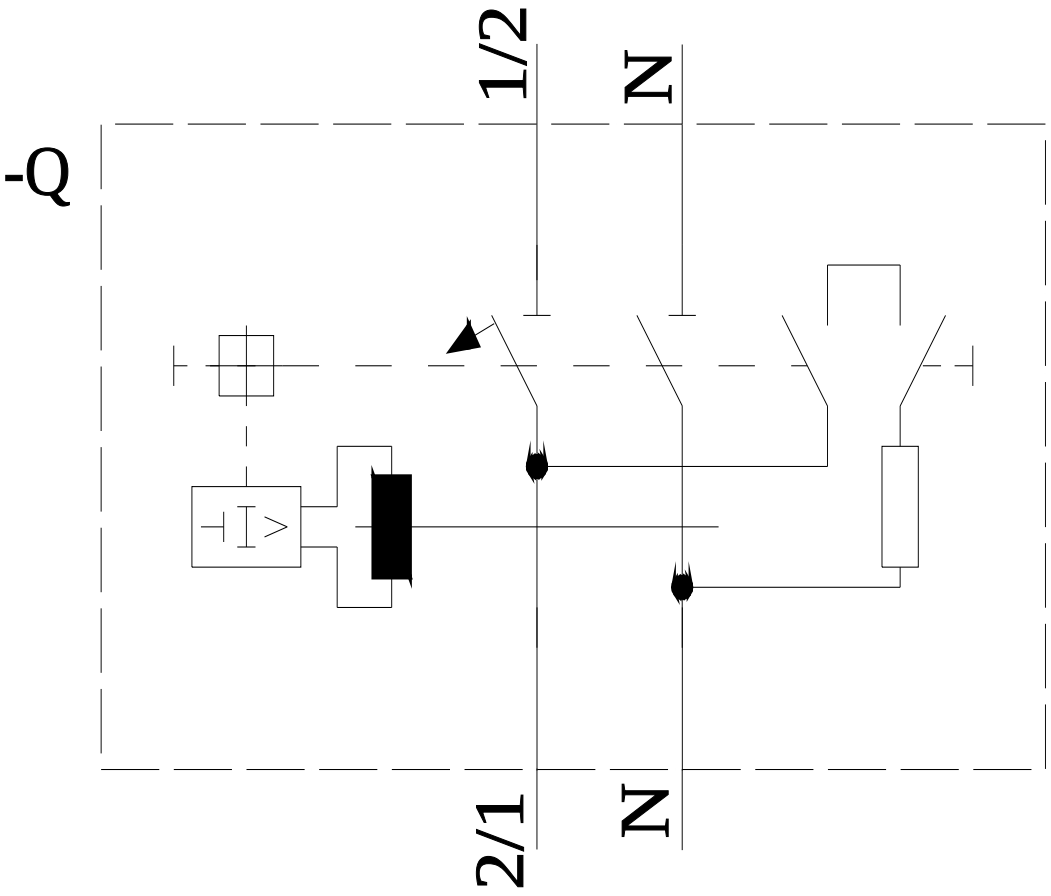
Environment

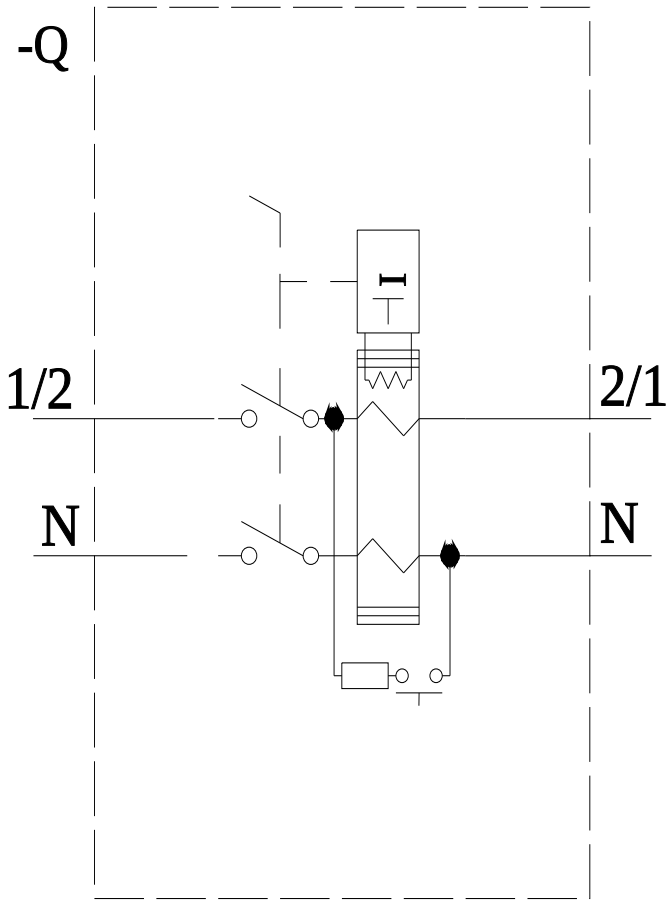
Environmental Con-firmations

Further information

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=5SV1316-7KK10
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SV1316-7KK10
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1316-7KK10
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications







last modified: 5/1/2025