SIEMENS

Data sheet 5SU9356-1KK20



RCBO, 6 kA, 1P+N, Type AC, 30 mA, C-Char, In: 20 A, Un AC: 230 V

Model	
product brand name	SENTRON
product designation	RCD-operated circuit breaker
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	3
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) rated value	264 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	20 A
— at 40 °C rated value	18.8 A
— at 45 °C rated value	18.2 A
— at 50 °C rated value	17.4 A
— at 55 °C rated value	16.2 A
● operational current at AC rated value	20 A
residual current type	AC
Supply voltage	
supply voltage	
● at AC rated value	230/240 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	
switching capacity current	
● according to EN 60898 rated value	6 kA
● according to IEC 60947-2 rated value	10 kA

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short-circuit current breaking capacity (Icn) according to EN 61009-1 rated value	6 kA
rated residual switching capacity (IΔm) according to IEC 61009-1	6 kA
energy limitation class	3
Dissipation	
power loss [W]	
• for rated value of the current at AC in hot operating state per pole	0.75 W
• maximum	1.5 W
Product details	
product feature touch protection	Yes
product component neutral conductor switching	Yes
product feature halogen-free	Yes
product feature silicon-free	Yes
Product function	
product function	voltage dependent RCD function
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm²
• maximum	35 mm²
connectable conductor cross-section stranded	
• minimum	0.75 mm²
• maximum	35 mm²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm²
• maximum	25 mm²
tightening torque with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
position of power supply cord	Either top or bottom
Mechanical Design	
height	90 mm
width	36 mm
depth	77 mm
installation depth	70 mm
number of modular width units	2
mounting position	any
Net Weight	280 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
Approvals Certificates	

Environment			**General Product Approval**	
Environmental Confirmations	Environmental Confirmations	EPD	EAC	Confirmation	CE EG-Konf.

General Product Approval	**EMV**	**other**

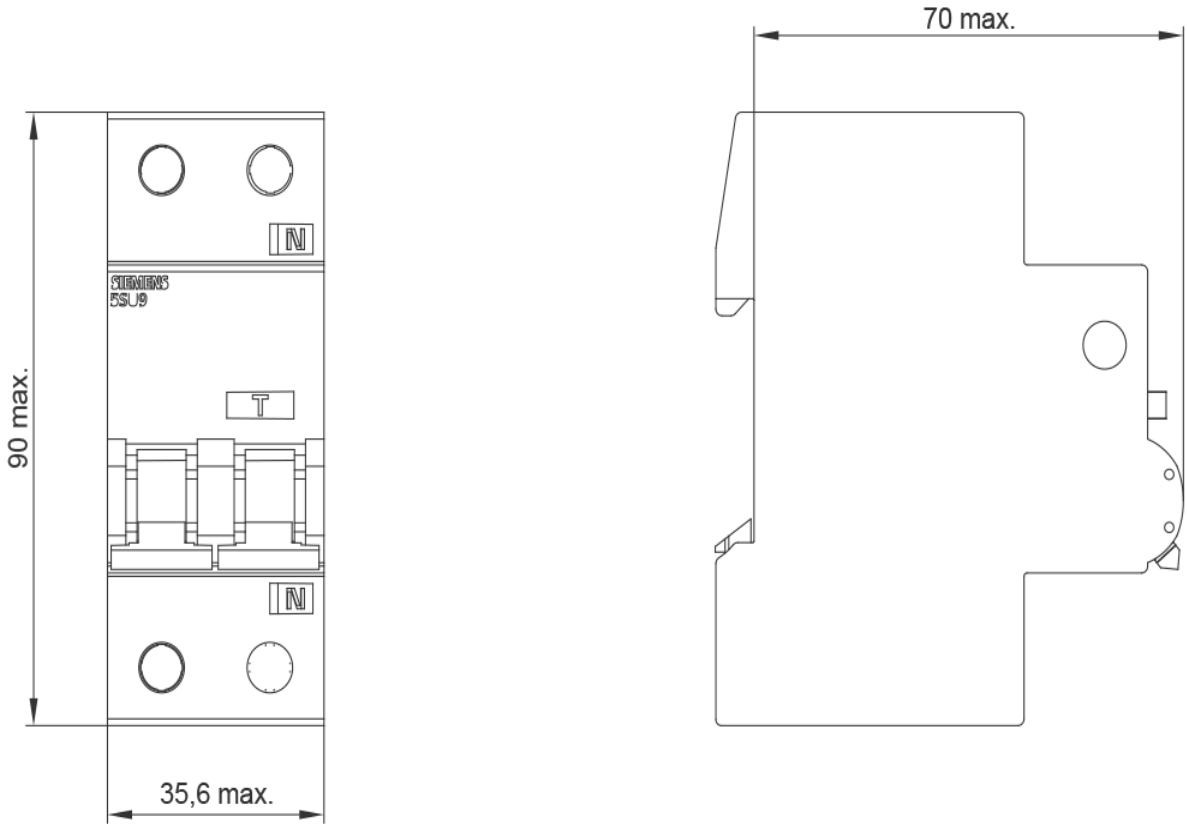
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Confirmation

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=5SU9356-1KK20
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SU9356-1KK20
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU9356-1KK20
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
Kennlinien
https://curves.simaris.siemens.com/curves/5SU9356-1KK20

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