SIEMENS

Data sheet 5SU1653-1KK20



Figure similar

RCBO, 4.5 kA, 1P+N, Type AC, 300 mA, C-Char, In: 20 A, Un AC: 230 V

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	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	300 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
— at 60 °C rated value	16.2 A
— at 65 °C rated value	15.4 A
— at 70 °C rated value	14.6 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	100 V
operating frequency	50 Hz
supply voltage frequency rated value	50 Hz
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors

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Breaking Capacity	
switching capacity current	
● according to EN 60898 rated value	4.5 kA
● according to IEC 60947-2 rated value	15 kA
short-circuit current breaking capacity (Icn) according to EN 61009-1 rated value	4.5 kA
rated residual switching capacity (IΔm) according to IEC 61009-1	4.5 kA
energy limitation class	3
Dissipation	
power loss [W]	
● **maximum**	3.3 W
Product details	
product feature touch protection	Yes
product component neutral conductor switching	Yes
product feature halogen-free	Yes
product feature silicon-free	Yes
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	278 g
Environmental conditions	
influence of the surrounding temperature	Max. 95% humidity
ambient temperature during operation	
● minimum	-25 °C
● maximum	55 °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	CCC	IMQ	Miscellaneous	Miscellaneous

General Product Approval	**EMV**	**Test Certificates**

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Confirmation

Miscellaneous

other				Railway	
Miscellaneous	Confirmation		Miscellaneous	Special Test Certific-ate	Confirmation

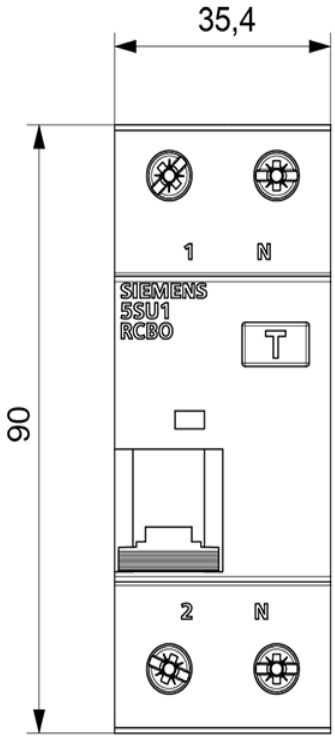
Dangerous goods

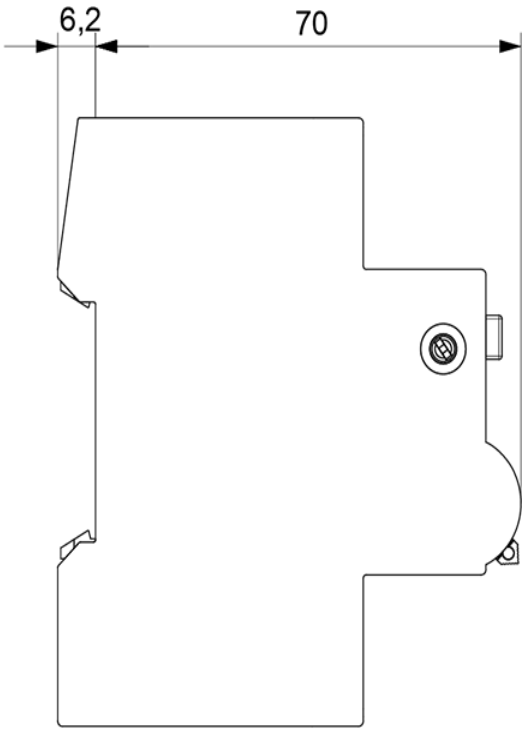
Transport Information

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=5SU1653-1KK20
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SU1653-1KK20
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1653-1KK20
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
Kennlinien
https://curves.simaris.siemens.com/curves/5SU1653-1KK20

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