

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



Model

Product brand name	SETRON
Product designation	RCD-operated circuit breaker
Design of the product	Instantaneous

General technical data

Number of poles	2
Number of poles / Note	1P+N
Number of poles / with protection	1
Tripping characteristic class	C
circuit-breaker / Design	5SU9
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	III
Degree of pollution	2

Voltage

Surge current resistance / at (8/20) μ s	1 kA
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Supply voltage

Type of voltage	AC
Current / at AC / rated value	20 A

Supply voltage	
<ul style="list-style-type: none"> • at AC / rated value • for testing equipment / minimum 	230/240 V 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

Switching capacity	
Breaking capacity short-circuit current (I _{cn}) / according to EN 61009-1 / rated value	6 kA
Switching capacity current	
<ul style="list-style-type: none"> • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value 	6 kA 10 kA
Rated residual switching capacity (I _{Δm}) / according to IEC 61009-1	6 kA
Energy limiting class	3

Dissipation	
Power loss [W]	
<ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole • maximum 	0.75 W 1.5 W

Current	
Tripping residual current / rated value	30 mA
Tripping residual / rated value / derated current	
<ul style="list-style-type: none"> • at 30 Cel • at 40 Cel • at 45 Cel • at 50 Cel • at 55 Cel 	20 A 18.8 A 18.2 A 17.4 A 16.2 A
Type of fault current	AC

Product details	
Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product feature	
<ul style="list-style-type: none"> • halogen-free • silicon-free 	Yes Yes

Connections	
Connectable conductor cross-section / solid	
<ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 35 mm ²

Connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 35 mm ²
Connectable conductor cross-section / finely stranded / with core end processing	
<ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 25 mm ²
Tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> • minimum • maximum 	2.5 N·m 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 width units	2
Mounting position	any
Net weight	280 g

Environmental conditions

Influence of the surrounding temperature	Max. 95% humidity
Ambient temperature	
<ul style="list-style-type: none"> • minimum • maximum 	-25 °C 45 °C
Ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum • maximum 	-40 °C 75 °C
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

Certificates

Reference code	
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 	F F

General Product Approval

Declaration of Conformity



CCC



RCM



EG-Konf.

Further information

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=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, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU9356-1KK20

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



