

RCBO, 4.5 kA, 1P+N, Type AC, 300 mA, C-Char, In: 25 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 / Note	1P+N
Number of poles / with protection	1
Tripping characteristic class	C
circuit-breaker / Design	5SU1
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	III
Degree of pollution	2
Voltage	
Surge current resistance / at (8/20) µs	1 kA
Supply voltage	
Type of voltage	AC
Operating current / at AC / rated value	25 A

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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Switching capacity

Breaking capacity short-circuit current (I _{cn}) / according to EN 61009-1 / rated value	4.5 kA
Switching capacity current	
• acc. to EN 60898 / rated value	4.5 kA
• acc. to IEC 60947-2 / rated value	15 kA
Rated residual switching capacity (I _{Δm}) / according to IEC 61009-1	4.5 kA
Energy limiting class	3

Dissipation

Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	5.1 W
• maximum	10.2 W

Current

Tripping residual current / rated value	300 mA
Tripping residual / rated value / derated current	
• at 30 Cel	25 A
• at 40 Cel	23.5 A
• at 45 Cel	22.75 A
• at 50 Cel	21.75 A
• at 55 Cel	20.25 A
• at 60 Cel	20.25 A
• at 65 Cel	19.25 A
• at 70 Cel	18.25 A
Type of fault current	AC

Product details

Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product feature	
• halogen-free	Yes
• silicon-free	Yes

Connections

Connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	35 mm ²
Connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	35 mm ²
Connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm ²
• maximum	25 mm ²
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 width units	2
Mounting position	any
Net weight	274 g

Environmental conditions

Influence of the surrounding temperature	Max. 95% humidity
Ambient temperature	
• minimum	-25 °C
• maximum	55 °C
Ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

Certificates

Reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

General Product Approval		Declaration of Conformity	Test Certificates	other
	Miscellaneous			Miscellaneous
IMQ		RCM	EG-Konf.	Miscellaneous

Railway	
Vibration and Shock	Confirmation

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=5SU1653-1KK25>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1653-1KK25>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1653-1KK25

CAX-Online-Generator

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

Tender specifications

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



