

RCBO, 10 kA, 4P, type A, selective, 300 mA, C-Char, In: 125 A, Un AC: 400 V



Model

Product brand name	SENTRON
Product designation	RCBO
Design of the product	selective

General technical data

Number of poles	4
Number of poles / Note	4P
Number of poles / with protection	4
Tripping characteristic class	C
circuit-breaker / Design	5SU1
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	III

Voltage

Surge current resistance / at (8/20) μ s	5 kA
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Supply voltage

Type of voltage	AC
Current / at AC / rated value	125 A
Supply voltage	

• for testing equipment / minimum	100 V
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	10 kA
Switching capacity current	
• acc. to EN 60898 / rated value	10 kA
• acc. to IEC 60947-2 / rated value	10 kA
Rated residual switching capacity (I _{Δm}) / according to IEC 61009-1	10 kA
Energy limiting class	3
Current	
Tripping residual current / rated value	300 mA
Tripping residual / rated value / derated current	
• at 30 Cel	125 A
• at 40 Cel	115.62 A
• at 45 Cel	111.25 A
• at 50 Cel	106.25 A
• at 55 Cel	101.25 A
• at 60 Cel	96.25 A
Type of fault current	A
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	6 ... 50 mm ²
— stranded	6 ... 50 mm ²
• Connectable conductor cross-section / finely stranded / with core end processing	6 ... 35 mm ²
Tightening torque / with screw-type terminals	3 ... 3.5 N·m
Position / of power supply cord	Either top or bottom
Mechanical Design	
Height	90 mm
Width	198 mm

Depth	77 mm
Installation depth	70 mm
Number of width units	11
Mounting position	any
Net weight	2 031 g

Environmental conditions

Influence of the surrounding temperature	Max. 95% humidity
Ambient temperature	-25 ... +55 °C
• during storage	-40 ... +75 °C

Certificates

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

General Product Approval	Declaration of Con- formity	other
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[Miscellaneous](#)



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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=5SU1644-7WK82>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1644-7WK82>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1644-7WK82

CAX-Online-Generator

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

Tender specifications

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

