

RCBO, 6 kA, 4P Type A, 300mA, C-Char, In: 25A Un: 400V



Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Instantaneous
General technical data	
number of poles	4
number of poles / note	4P
number of poles / with protection	4
tripping characteristic class	C
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
surge current resistance / at (8/20) μ s	0.25 kA
Supply voltage	
type of voltage	AC
operational current / at AC / rated value	25 A
supply voltage	

• at AC / rated value	230/240 V
• for testing equipment / minimum	195 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

Switching capacity	
breaking capacity short-circuit current (I _{cn}) / according to EN 61009-1 / rated value	6 kA
switching capacity current	
• acc. to EN 60898 / rated value	6 kA
• acc. to IEC 60947-2 / rated value	6 kA
rated residual switching capacity (I _{Δm}) / according to IEC 61009-1	4.5 kA

Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	1.44 W
• maximum	2.88 W

Current	
tripping fault current / rated value	300 mA
residual current type	A

Product details	
product function / neutral conductor switching	Yes
product feature / touch protection	Yes
product feature	
• halogen-free	No

Connections	
connectable conductor cross-section / solid	
• maximum	35 mm ²
connectable conductor cross-section / stranded	
• maximum	35 mm ²
connectable conductor cross-section / finely stranded / with core end processing	
• maximum	35 mm ²
tightening torque / with screw-type terminals	
• minimum	2 N·m
• maximum	2 N·m
position / of power supply cord	Either top or bottom

Mechanical Design

height	85 mm
width	72 mm
depth	72 mm
installation depth	70 mm
number of modular width units	4
mounting position	Any
net weight	443 g
weight / with packaging	493 g

Environmental conditions

influence of the surrounding temperature	Max. 95% humidity
ambient temperature / during operation	
• minimum	-25 °C
• maximum	40 °C
ambient temperature / during storage	
• minimum	-25 °C
• maximum	70 °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 IEC 81346-2	F

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=5SU1646-7FP25>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1646-7FP25>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1646-7FP25

CAX-Online-Generator

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

Tender specifications

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