Product Datasheet
CPA584U



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RCCB 1P+N 100A 300mA A S

Technical Features

Architecture	
Type of pole	1P+N
Number of poles	2
Electric current	
Rated current IN	100 A
Rated residual operating current Idn	300 mA
Breaking and opening capacity Idm	1.25 kA
Rated conditional short-circuit current Inc according to EN61008-1	10 kA
Rated current at -25°C	100 A
Rated current at -20°C	100 A
Rated current at -15°C	100 A
Rated current at -10°C	100 A
Rated current at -5°C	100 A
Rated current at 0°C	100 A
Rated current at 5°C	100 A
Rated current at 10°C	100 A
Rated current at 15°C	100 A
Rated current at 20°C	100 A
Rated current at 25°C	100 A
Rated current at 30°C	100 A
Rated current at 35°C	100 A
Rated current at 40°C	100 A
Rated current at 45°C	100 A
Rated current at 50°C	100 A
Rated current at 55°C	95 A
Rated current at 60°C	90 A
Rated current at 65°C	90 A
Rated current at 70°C	85 A
Installation, mounting	
Nominal tightening torque top terminal	3.60 - 3.60 Nm
Nominal tightening torque down terminal	3.60 - 3.60 Nm
Connectivity	
Type of connection	Screw terminal
Voltage	
Rated operational voltage Ue	230 - 230 V
Type voltage supply	AC
Rated insulation voltage Ui	500 V
Dielectric strength value of power frequency	2 kV
Rated impulse withstand voltage Uimp	4000 V
Rated impulse withstand voltage Uimp IEC 60947-3	6000 V
Max. operating voltage	253 V
Frequency	
Frequency	50 - 50 Hz
Capacity	
Number of modules	2
Compatibility	
Suitable for DIN Rail	Yes
Safety	
Residual current type	A SEL
Ingress Protection (IP) class	IP20

Installation, mounting	
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect
Connection	
Cross-section of bottom terminal with screws, for rigid conductors	1 - 50 mm^2
Cross-section of bottom terminal with screws, for flexible conductors	1 - 35 mm^2
Cross-section of top and bottom terminal with screws, for flexible conductors	1 - 35 mm^2
Cross-section of top and bottom terminal with screws, for rigid conductors	1 - 50 mm^2
Power	
Power dissipation at IN	13.89 W
Use conditions	
Max. altitude	2000 m
Operating temperature	-25 - 50 °C
Endurance	
Electric endurance in number of cycles	10000
Number of mechanical operations	20000
Connectivity	
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
Dimensions	
Height	85 mm
Width	36 mm
Depth	70 mm
Sustainability	
RoHS conform	Yes