



CDA680T

RCCB 3P+N 80A 30mA A

Technical properties

Architecture

Type of pole	3P+N
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Electric current

Rated current	80 A
Rated residual operating current I_{dn}	30 mA
Breaking and opening capacity I_{dm}	1,25 kA
Rated conditional short-circuit current I_{nc} according to EN61008-1	10 kA
Rated current -25°C	80 A
Rated current at -20°C	80 A
Rated current -15°C	80 A
Rated current -10°C	80 A
Rated current -5°C	80 A
Rated current at 0°C	80 A
Rated current 5°C	80 A
Rated current 10°C	80 A
Rated current 15°C	80 A
Rated current at 20°C	80 A
Rated current 25°C	80 A
Rated current 30°C	80 A
Rated current 35°C	80 A
Rated current at 40°C	80 A
Rated current at 45°C	80 A
Rated current at 50°C	80 A
Rated current 55°C	80 A
Rated current 60°C	80 A
Rated current 65°C	80 A
Rated current 70°C	80 A

Main electrical attributes

Nominal tightening torque top terminal	3,60 - 3,60 Nm
Nominal tightening torque down terminal	3,60 - 3,60 Nm

Voltage

Rated operational voltage U_e	240 - 415 V
Type voltage supply	AC
Rated insulation voltage U_i	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	456 V
Frequency	
Frequency	50 - 50 Hz
Capacity	
Number of modules	4
Compatibility	
Suitable for DIN Rail	Yes
Safety	
Residual current type	A
Ingress Protection (IP) class	IP20
Installation, mounting	
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect, Bypass
Connection	
Cross-section of output with screws, for massive conductors	1 - 50 mm ²
Cross-section of output with screws, for flexible conductors	1 - 35 mm ²
Power	
Total power loss under IN	15,80 W
Use conditions	
Altitude	2000 m
Endurance	
Electric endurance in number of cycles	10000
Number of mechanical operations	20000
Connectivity	
Type of connection	Screw terminal
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
Dimensions	
Height	85 mm
Width	72 mm
Depth	70 mm