



CDA580W

## RCCB 1P+N 80A 30mA A

### Technical properties

#### Architecture

Type of pole	1P+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	75 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 $U_e$	230 - 230 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	4,000 V
Rated impulse withstand voltage Uimp IEC 60947-3	6,000 V
Max. operating voltage	253 V
<b>Frequency</b>	
Frequency	50 - 50 Hz
<b>Capacity</b>	
Number of modules	2
<b>Compatibility</b>	
Suitable for DIN Rail	Yes
<b>Safety</b>	
Residual current type	A
Ingress Protection (IP) class	IP20
<b>Installation, mounting</b>	
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect
<b>Connection</b>	
Cross-section of output with screws, for massive conductors	1 - 50 mm <sup>2</sup>
Cross-section of output with screws, for flexible conductors	1 - 35 mm <sup>2</sup>
<b>Power</b>	
Total power loss under IN	10.90 W
<b>Use conditions</b>	
Max. Altitude	2,000 m
<b>Endurance</b>	
Electric endurance in number of cycles	10,000
Number of mechanical operations	20,000
<b>Connectivity</b>	
Type of connection	Screw terminal
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
<b>Dimensions</b>	
Height	85 mm
Width	36 mm
Depth	70 mm