



CDA680D

**RCCB 3P+N 80A 30mA A**

**Technical Features**

**Architecture**

Type of pole	3P+N
Number of poles	4

**Electric current**

Rated current	80 A
Rated residual operating current I <sub>dn</sub>	30 mA
Breaking and opening capacity I <sub>dm</sub>	1.25 kA
Rated conditional short-circuit current I <sub>nc</sub> 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

**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
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**Voltage**

Rated operational voltage U <sub>e</sub>	230 - 400 V
Type voltage supply	AC
Rated insulation voltage U <sub>i</sub>	500 V
Dielectric strength value of power frequency	2 kV
Rated impulse withstand voltage U <sub>imp</sub>	4000 V
Rated impulse withstand voltage U <sub>imp</sub> IEC 60947-3	6000 V
Max. operating voltage	440 V

**Frequency**

Frequency	50 - 50 Hz
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**Capacity**

Number of modules	4
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**Compatibility**

Suitable for DIN Rail	Yes
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**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

**Connection**

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>
Cross-section of input and output with screws, for flexible conductors	1 - 35 mm <sup>2</sup>
Cross-section of input and output with screws, for massive conductors	1 - 50 mm <sup>2</sup>

**Power**

Total power loss under IN	15.80 W
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**Use conditions**

Max. altitude	2000 m
Operating temperature	-25 - 70 °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	72 mm
Depth	70 mm

**Sustainability**

RoHS conform	Yes
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**Illustrations | Drawings**

