



CDC684Z

### RCCB 3P+N 100A 30mA AC

#### Technical Features

##### Architecture

Type of pole	3P+N
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##### Electric current

Rated current	100 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	100 A
Rated current at -20°C	100 A
Rated current -15°C	100 A
Rated current -10°C	100 A
Rated current -5°C	100 A
Rated current at 0°C	100 A
Rated current 5°C	100 A
Rated current 10°C	100 A
Rated current 15°C	100 A
Rated current at 20°C	100 A
Rated current 25°C	100 A
Rated current 30°C	100 A
Rated current 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 55°C	100 A
Rated current 60°C	100 A
Rated current 65°C	95 A
Rated current 70°C	90 A

##### Installation, mounting

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 - 400 V
Type voltage supply	AC
Rated insulation voltage $U_i$	500 V
Dielectric strength value of power frequency	2 kV
Rated impulse withstand voltage $U_{imp}$	4000 V
Rated impulse withstand voltage $U_{imp}$ 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	AC
Ingress Protection (IP) class	IP20

##### Installation, mounting

Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect

# Product Datasheet

## CDC684Z

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### 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>

### Power

Total power loss under IN	21.48 W
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### Use conditions

Max. Altitude	2000 m
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### 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

### Sustainability

RoHS conform	Yes
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