Product Datasheet
CDC684B



CDC684B

RCCB 3P+N 100A 30mA AC

Technical Features

Architecture	
Type of pole	3P+N
Number of poles	4
Electric current	
Rated current	100 A
Rated residual operating current Idn	30 mA
Breaking and opening capacity Idm	1.25 kA
Rated conditional short-circuit current Inc 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
Connectivity	
Type of connection	Screw terminal
Voltage	
Rated operational voltage Ue	230 - 400 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	440 V
Frequency	
Frequency	50 - 50 Hz
Capacity	
Number of modules	4
Compatibility	
Suitable for DIN Rail	Yes
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

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
Cross-section of input and output with screws, for flexible conductors	1 - 35 mm^2
Cross-section of input and output with screws, for massive conductors	1 - 50 mm^2

Power

Total power loss under IN	21.48 W

Use conditions

Max. altitude	2000 m
Operating temperature	-25 - 60 °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