



CDH680C

RCCB 3P+N 80A 30mA A HI

Technical Features

Architecture

Type of pole	3P+N
--------------	------

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

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
-----------	------------

Capacity

Number of modules	4
-------------------	---

Compatibility

Suitable for DIN Rail	Yes
-----------------------	-----

Safety

Residual current type	A HI
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

CDH680C

Connection	
Cross-section of output with screws, for massive conductors	1 - 50 mm²
Cross-section of output with screws, for flexible conductors	1 - 35 mm²
Power	
Total power loss under IN	15.80 W
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	
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