



CQM7DC Series
DC Molded Case Circuit Breaker
PRODUCT CATALOG



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CQM7DC Series

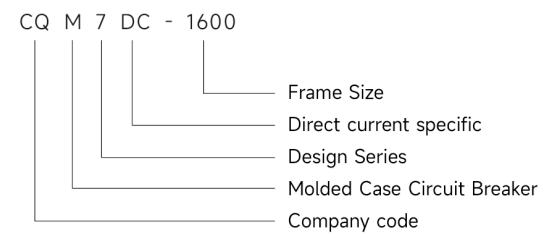
Molded Case Circuit Breaker



Product Features

- **Zero Arc Chute Design**
Features advanced arc extinguishing technology to effectively eliminate arcing hazards during disconnection, ensuring operational safety.
- **High Temperature Resistance**
Operates reliably in ambient temperatures up to +50°C without performance degradation, suitable for demanding environments.
- **Wide Current Range**
Available in multiple current ratings from 63A to 1600A to meet various application requirements in solar, EV charging, and energy storage systems.
- **UL489 Compliance**
Meets UL489 standard requirements, ensuring compliance with North American safety regulations and global market acceptance.

Type designation



Technical Specifications

Parameter	CQM7DC-320	CQM7DC-630	CQM7DC-1600
Rated Current (A)	63, 80, 100, 125, 140, 160, 180, 200, 225, 250, 315, 320	225, 250, 320, 350, 400, 500, 630	800, 1000, 1250, 1500, 1600
Number of Poles	2P	2P	3P,4P
Rated Operational Voltage Ue DC (V)	1500	1500	1500
Rated Insulation Voltage Ui (V)	1800	1800	1800
Rated Impulse Withstand Voltage Uimp (kV)	12	12	12
Power Frequency Withstand Voltage (1 min) (kV)	3.5	3.5	3.5
Rated Ultimate Short-Circuit Breaking Capacity Icu	DC1200V DC1500V	DC750V DC1000V	DC750V DC1200V DC1000V DC1500V
Rated Service Short-Circuit Breaking Capacity Ics (kA)	35kA 20kA	85kA 50kA	50kA 30kA 15kA 10kA
Mechanical Life (operations)	4000	4000	4000
Electrical Life (operations)	10000	10000	500
Arc Chute Distance (mm)	50 / 0	50 / 0	50 / 0
Dimensions W×L×H (mm)	90×215×136	110×275×152	3P: 210×340×244 4P: 280×340×244
Instantaneous Trip Setting	5In or 10In	5In or 10In	5In or 10In
Reference Ambient Temperature (°C)	50	50	50

Accessory List

Model number	CQM7DC-320	CQM7DC-630	CQM7DC-1600	
Number of poles	2P	2P	3P	4P
Accessory code	Accessory name			
0	None			
8	Alarm Contact			
10	Shunt Release			
18	Shunt Release + Alarm Contact			
20	Auxiliary Contact (1NO)			
27	Auxiliary Contact (2NO)			
28	Auxiliary Contact (1NO) + Alarm Contact			
29	Auxiliary Contact (2NO) + Alarm Contact			
30	Undervoltage Release			
38	Undervoltage Release + Alarm Contact			
40	Shunt Release + Auxiliary Contact (1NO)			
48	Shunt Release + Auxiliary Alarm Contact			
62	Two Sets of Auxiliary Contacts (2NO each)			
68	Auxiliary Contact (1NO) + Auxiliary Alarm Contact			
69	Auxiliary Contact (2NO) + Auxiliary Alarm Contact			
70	Undervoltage Release + Auxiliary Contact (1NO)			



Note: Code 50: For models 125 and 160, a custom left-side undervoltage release is required. For model 250, a custom left-side shunt release is required. Optional voltage ranges for shunt/undervoltage releases: DC24V, DC110V, DC220V, AC230V, AC400V. Standard production voltage: AC230V.