



CQM7 Series
Molded Case Circuit Breaker
PRODUCT CATALOG



ZHEJIANG CHUANGQI ELECTRIC CO.,LTD.

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LINKEDIN



WEBSITE

V2026.09-CHAC-MKT



COMPANY INTRODUCTION

Zhejiang Chuangqi Electric Co., Ltd. (CHAC Electric) is a leading enterprise specializing in low-voltage electrical products, integrating R&D, manufacturing, and marketing. Our main products have obtained CCC, CE, and other certifications, and are widely exported to over 30 countries and regions, including the European Union, South America, Russia and other Commonwealth of Independent States countries, the Middle East, and Southeast Asia. For many consecutive years, CHAC Electric has ranked among the top exporters of low-voltage electrical products in Wenzhou, establishing itself as one of the industry leaders in the international sales of low-voltage electrical equipment in China.

Adhering to the core values of "Virtue, Integrity, and Lean Innovation," and through years of dedicated efforts, CHAC Electric has achieved outstanding performance and earned numerous honors, including "National High-Tech Enterprise," National-level "Green Factory," "AEO Advanced Certification Enterprise" by the General Administration of Customs, "Excellent Scenario of Intelligent Manufacturing" by the Ministry of Industry and Information Technology (MIIT), "National-Level Specialized, Sophisticated, Distinctive, and Innovative 'Little Giant' Enterprise," "National Patent-Intensive Product Certification," "Typical Innovation Achievement in National Advanced Manufacturing Clusters," "International Cooperation Case in Industrial Clusters" by MIIT, "Zhejiang Famous Trademark," "Zhejiang Export Famous Brand," "Zhejiang Specialized, Sophisticated, Distinctive, and Innovative SME," "Zhejiang Advanced-Level Smart Factory," "Zhejiang Service-Oriented Manufacturing Demonstration Enterprise," "Zhejiang Provincial Enterprise Technology Center," "Zhejiang Manufacturing Certification Enterprise," "Zhejiang Science and Technology-Based SME," "Zhejiang Ninth Batch of Big Data Application Demonstration Enterprise," "Zhejiang AAA-Level Contract and Credit Honoring Enterprise," "Zhejiang Pilot Enterprise for Implementation of National Data Management Standard (DCMM)."

In this new journey, CHAC Electric is committed to realizing its vision of becoming "an internationally leading lean intelligent manufacturing expert in low-voltage electrical products" and fulfilling its mission of "enabling safe electricity use to step into the smart era." With a focus on low-voltage electrical products and driven by innovation, the company is fully dedicated to enhancing its core competitiveness. It is progressively advancing its digital and intelligent transformation, promoting high-quality and sustainable development, and contributing to the growth of the regional economy and China's industrial electrical industry.

1995

Establishment Date

2

Digital Facility

60000+

Land Area (m²)



CHAC

DEVELOPMENT HISTORY

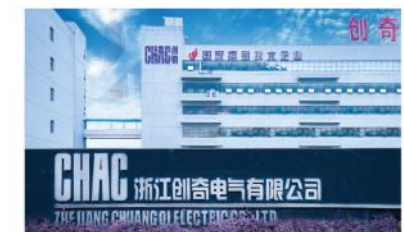
2023

Zhejiang Chuangqi Electric Co.,Ltd.has completed its shareholding reformand prepare for IPO



2018

The Jiaxing Intelligent Manufacturing Base has been completed



2012

Luogelang Group Limited was established



2007

The Wenzhou Intelligen Manufacturing Base has been completed



1998

Wenzhou Luogelang Electrical Equipment Co.,Ltd. established



1995

Wenzhou Zhengli Electrical Appliance Co.,Ltd. was established in 1995 (the predecessor of the CHAC)



QUALITY REPUTATION

The products comply with international universal product certifications such as CCC, CE, and CB. The company has passed international management system certifications such as ISO9001, ISO14001, and OHSAS18001.

Zhejiang Chuangqi Electric Co., Ltd. possesses advanced research and manufacturing capabilities in the industry, persistently pioneering and self-regulating in the field of low-voltage electrical product manufacturing. From product testing to production certification, it has received comprehensive recognition from professional testing institutions and certification bodies, ultimately owning multiple core technologies, patents, and honors such as "Zhejiang Manufacturing Certification," "Zhejiang Famous Brand Product," and "Zhejiang Chuangqi High-tech Enterprise."

33

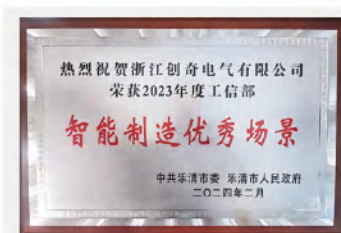
Invention Patent

152

Utility Model Patent

28

Design Patent



CHAC

MANUFACTURING CAPACITY

制造能力



90%

生产工序全自动化

85%

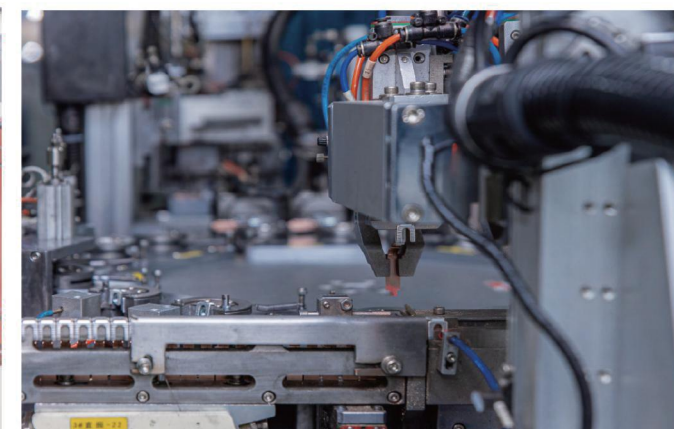
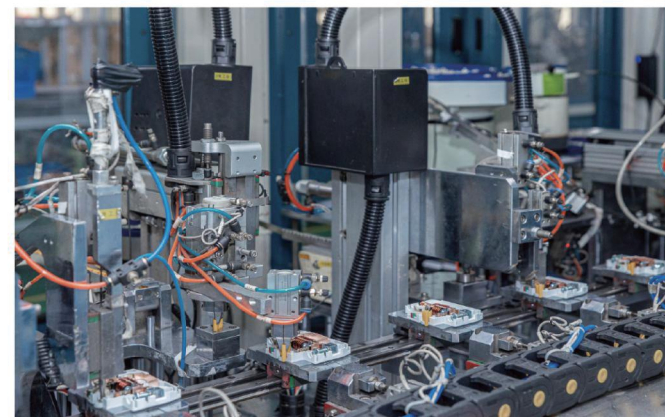
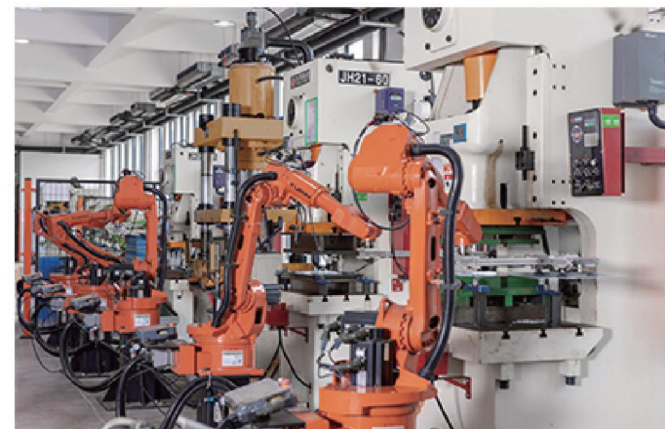
自动化生产设备自主研发制造

98%

产品零部件的全自动加工能力

100M⁺

终端电器产品年产量



依托完善的低压电器产品供应链体系，创奇电气打造了从模具开发、五金精密加工、注塑成型、点焊加工、零部件精加工，到自动化装配、智能检测、成品包装的全程自动化生产线，实现全流程自主可控。



在此基础上，我们深度集成 SCADA 自动数据采集系统、KANBAN 物料看板管理系统、WMS 仓储物料管理系统、EMS 能效管理系统、ANDON 生产异常管理系统及 QMS 质量管理体系，以数字化技术赋能生产全链路，保障产品品质稳定与交付高效。





CQM7 Series Molded Case Circuit Breaker

Product Overview

The CQM7 Series Molded Case Circuit Breaker covers a rated current range of 16A-800A. Its compact design provides overload and short-circuit protection, with flexible accessory options for various low-voltage distribution requirements.

Applications

Suitable for industrial power distribution, commercial buildings, infrastructure, switchboards and motor protection.

Main Specifications

Rated Current: 16A-800A

Rated Operational Voltage: AC 400/415V

Rated Insulation Voltage: 800V

Rated Impulse Withstand Voltage: 8kV

Short-Circuit Breaking Capacity: Up to 50kA

Trip Type: Thermal-Magnetic

CQM7 Series

Molded case circuit breaker



Product Features

- Core Protection: Provides essential protection against overloads and short-circuits for distribution systems and motor circuits.
- Current Range: Comprehensive coverage from 16A up to 800A.
- Compact Design: Features a miniaturized and unified footprint for easy panel integration and space savings.
- Accessory Flexibility: Supports a wide range of accessories (shunt trips, auxiliaries, etc.) for customized control and monitoring.

Compliance

- Meets international and regional standards including

IEC/EN 60947-1(General Rules)	GB/T 14048.1
IEC/EN 60947-2(Circuit-Breakers)	GB/T 14048.2
IEC/EN 60947-3(Switchgear)	GB/T 14048.3
IEC/EN 60947-4(Contactors & Motor-Starters)	GB/T 14048.4

Selection Guide

CQM7 **G** - **125** **C** **P** / **4** **300** - **125A** **2** **A** **I** **Q1** **D1** **Q** **2**

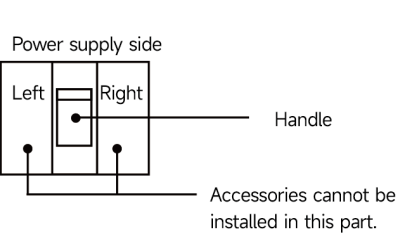
Product code	Extension Code	Shell frame grade	Breaking capacity				Operating method	Number of poles
CQM7	G	125	C				P	4
Molded case circuit breaker	— : Thermal and magnetic protection are not adjustable G : Overload alarm without trip function		C	S	M	H		
		125	125	25/15	30/20	/	/	125A:3P 250A:3P
		250	250	35/25	40/30	/	/	400A:3P 630A:3P
		400	400	/	35/25	50/35	/	800A:3P
		630	630	/	35/25	50/35	/	
		800	800	/	35/25	50/35	/	

Trip Unit & Accessories	Rated current A		Function	4P Option Code	Special code
300	125A		2	A	I
The first digit indicates the type of detent 2:Instantaneous detent only 3:Duplicate detent Note:The last two digits are the accessory designator(see accessory table).	125	16,20,32,40,50,63,80,100,125	1:For power distribution 2:For motor protection	A:N-pole is unprotected and cannot be combined B:N-pole is unprotected and can be combined C:N-pole is protected and can be combined D:N-pole is protected and cannot be combined	I: Overload alarm non trip function
	250	125,140,160,180,200,225,250			
	400	250,315,350,400			
	630	250,315,350,400,500,630			
	800	500,630,700,800			

Accessory Voltage			Motorized operating voltage		Installation	Terminal Block Option
Q1			D1		Q	2
Undervoltage detent Q1:AC220V Q2:AC240V Q3:AC380V Q4:AC415V	Shunt release F1:AC220V F2:AC380V F3:DC110V F4:DC24V	Auxiliary alarm J1:AC125V J2:AC250V J3:DC125V J4:DC24V	CD1 Electrical Operation D1:AC220V D2:AC230V D3:AC380V D4:AC400V	CD2 Electrical Operation D5:AC230V D6:AC110V D7:DC220 D8:DC110 D9:AC110~240V D10:DC100~220V	Q:Front of plate H:Rear of plate C:Inserted	1:Noinstallation 2:Installation
Note:When motorized operation is selected,please refer to the external accessories for the two voltages applicable for motorized operation.						

Accessory List

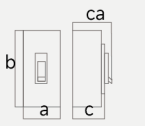
Model number	CQM7-125	CQM7-250	CQM7-400	CQM7-630	CQM7-800
Breaking capacity	C,S	C,S	S,M	S,M	S,M
Number of poles	3	3	3	3	3
Accessory code	Accessory description				
208、308	Alarm Switch				
210、310	Shunt Release				
220、320	Auxiliary Switch				
230、330	Undervoltage Release				
240、340	Shunt Release and Auxiliary Switch				
250、350	Shunt Release and Undervoltage Release				
260、360	Two Auxiliary Switches				
270、370	Auxiliary Switch and Undervoltage Release				
218、318	Shunt Release and Alarm Switch				
228、328	Auxiliary Switch and Alarm Switch				
238、338	Undervoltage Release and Alarm Switch				
248、348	Shunt Release, Auxiliary Switch and Alarm Switch				
268、368	Two Auxiliary Switches and Alarm Switch				
278、378	Auxiliary Switch, Undervoltage Release and Alarm				
280、380	Two Auxiliary Switches and Shunt Release				



- Alarm switch
- Auxiliary switch
- Undervoltage release
- Shunt trip

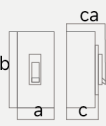
1. Our company can provide three new products for customers to choose from,namely the right-side auxiliary switch,the left-side shunt trip device,and the left-side undervoltage release device.
2. For the spedfcations of 220,320,240,340,270 and 370,the auxilaryswitch can provide two pairs of switches.Please specly this vhen placing an order.
3. For the 250 and 350 specifications,the shunt trip device and undervoltage release for models 400 and above can only be installed on 3-pole circuit breakers.

Main Technical Parameters

Model number			CQM7-125		CQM7-250	
Rated current of frame level Inm(A)			125		250	
Number of poles			3		3	
Rated current In(A),at 40°C,50°C,55°C			16,20,32,40,50,63,80,100,125		125,140,160,180,200,225,250	
Rated operating voltage Ue(V),AC 50/60Hz			400/415		400/415	
Rated insulation voltage Ui (V)			800		800	
Rated impulse withstand voltage Uimp(KV)			8		8	
Breaking capacity designation			C	S	C	S
Short-circuit breaking capacity Icu/lcs(kA)AC400/415V			25/15	30/20	35/25	40/30
Selectivity category			A	A	A	A
Number of operating cycles		ON	1000		1000	
(cycle)		OFF	10000		10000	
Trip mechanisms and protection types	Magnetic trip	Power distribution protection	●	●	●	●
		Motor protection	●	●	●	●
	Thermal-magnetic trip	Power distribution protection	●	●	●	●
		Motor protection	●	●	●	●
Accessory	Auxiliary contacts		●	●	●	●
	Alarm contacts		●	●	●	●
	Shunt disconnect		●	●	●	●
	Undervoltage detent		●	●	●	●
	Manual operating mechanism		●	●	●	●
	Motorized operating mechanism		●	●	●	●
	Backplane wiring		●	●	●	●
	Inserted		●	●	●	●
	Coupling plate		●	●	●	●
	Partition between phases		●	●	●	●
Derivative products	Dedicated for prepayment electric meters		●	●	●	●
	Overload alarm without trip		-	-	●	●
Overall dimensions (mm) (a-b-c-ca)		3 P	77×131×65×82		105×165×68×95	

Note: ● for optional accessories; “-” for no optional accessories.

Main Technical Parameters

Model number			CQM7-400		CQM7-630		CQM7-800	
Rated current of frame level Inm(A)			400		630		800	
Number of poles			3		3		3	
Rated current In(A),at 40°C,50°C,55°C			250, 315, 350, 400		250, 315, 350, 400, 500, 630		500, 630, 700, 800	
Rated operating voltage Ue(V),AC 50/60Hz			400/415		400/415		400/415	
Rated insulation voltage Ui (V)			800		800		800	
Rated impulse withstand voltage Uimp(KV)			8		8		8	
Breaking capacity designation			S	M	S	M	S	M
Short-circuit breaking capacity Icu/lcs(kA)AC400/415V			35/25	50/35	35/25	50/35	35/25	50/35
Selectivity category			A	A	A	A	A	A
Number of operating cycles		ON	1000		1000		500	
(cycle)		OFF	4000		4000		2500	
Trip mechanisms and protection types	Magnetic trip	Power distribution protection	●	●	●	●	●	●
		Motor protection	●	●	●	●	●	●
	Thermal-magnetic trip	Power distribution protection	●	●	●	●	●	●
		Motor protection	●	●	●	●	●	●
Accessory	Auxiliary contacts		●	●	●	●	●	●
	Alarm contacts		●	●	●	●	●	●
	Shunt disconnect		●	●	●	●	●	●
	Undervoltage detent		●	●	●	●	●	●
	Manual operating mechanism		●	●	●	●	●	●
	Motorized operating mechanism		●	●	●	●	●	●
	Backplane wiring		●	●	●	●	●	●
	Inserted		●	●	●	●	●	●
	Coupling plate		●	●	●	●	●	●
	Partition between phases		●	●	●	●	●	●
Derivative products	Dedicated for prepayment electric meters		●	●	●	●	●	●
	Overload alarm without trip		●	●	●	●	●	●
Overall dimensions (mm) (a-b-c-ca)			3 P	139×257×108×154		139×257×108×154		180×270×114×158

Note: ● for optional accessories; “-” for no optional accessories.

Operating Characteristics

1. The inverse time operating characteristics of power distribution circuit breakers when all poles are energized simultaneously at an ambient air temperature of +40°C (with no humidity compensation) are shown in the following table:

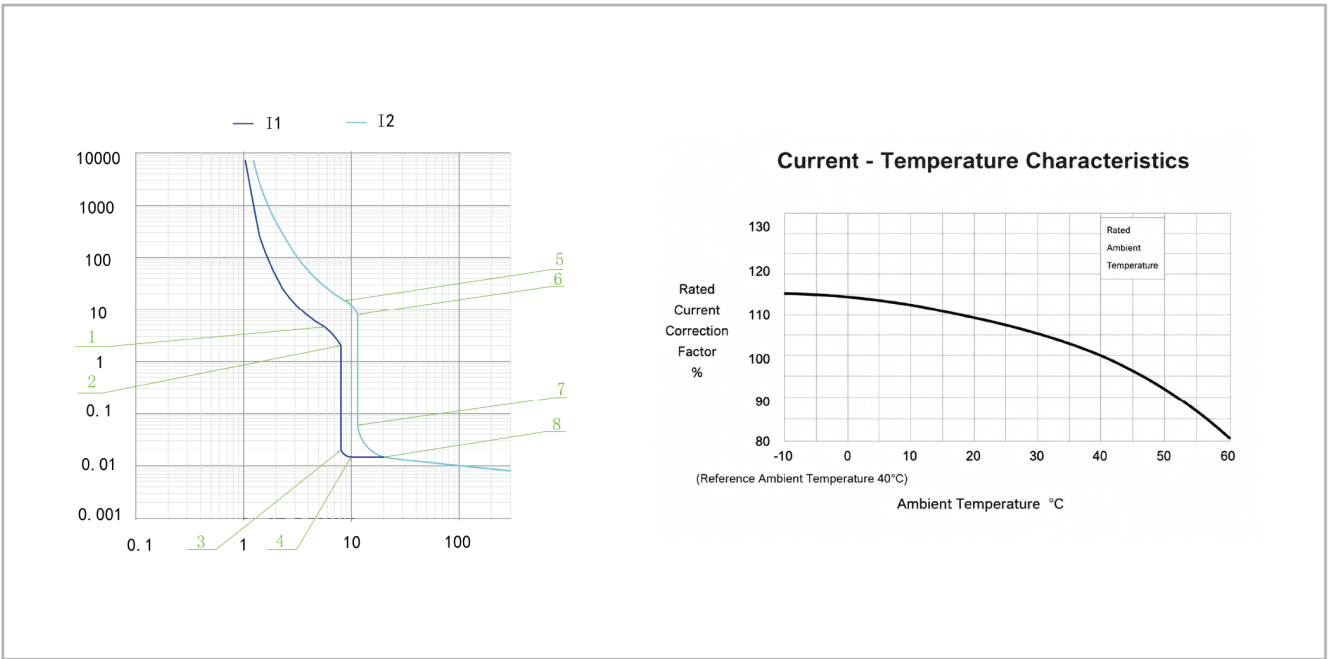
Test current designation	Setting current multiple	Conventional time	Initial state
		$I_n \leq 63$ $63 < I_n$	
Conventional non-tripping current	1.05	$\geq 1h$ $\geq 2h$	Cool state
Conventional tripping current	1.30	$< 1h$ $< 2h$	Hot state

2. The inverse time action characteristics of circuit breakers for motor protection without humidity compensation when all poles are energized simultaneously at an ambient air temperature of +40°C are shown in the following table.

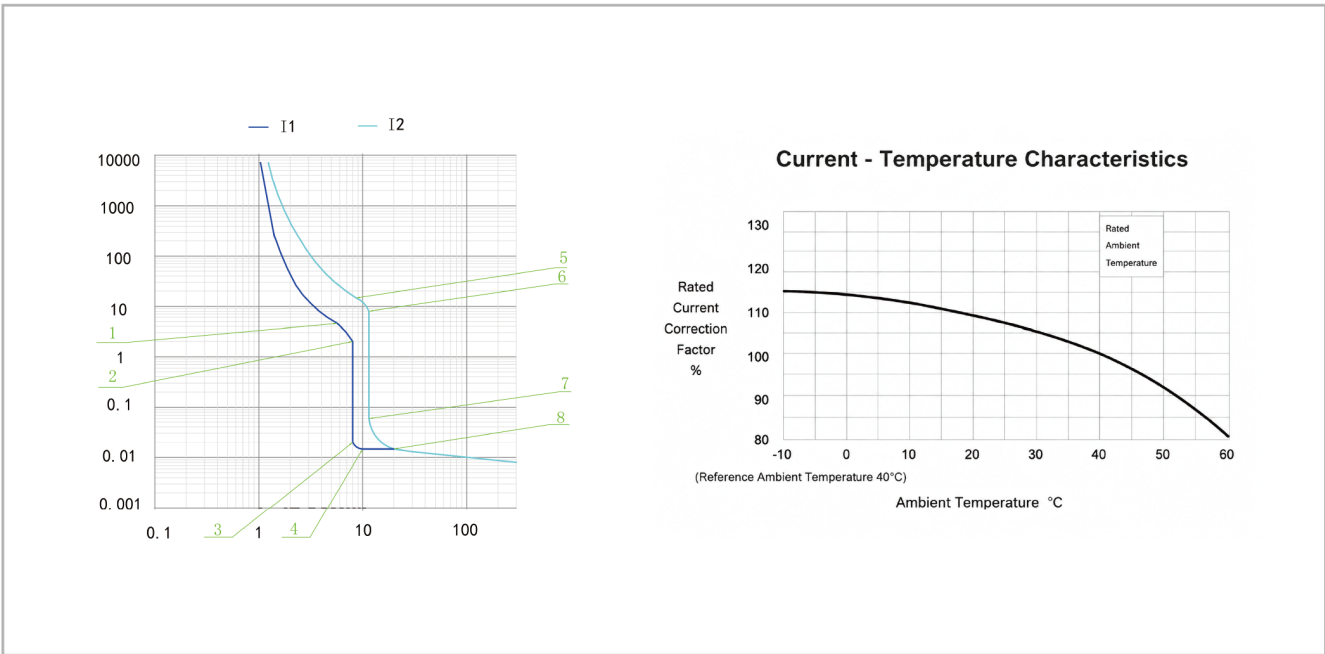
Test current designation	Setting current multiple	Conventional time	Initial state
		$I_n \leq 800$	
Conventional non-tripping current	1.0	$\geq 2h$	Cool state
Conventional tripping current	1.2	$< 2h$	Hot state

3. Action characteristics under short-circuit condition: The short-circuit current setting value of the instantaneous tripper of the circuit breaker for power distribution is $10I_n$.
The short-circuit current setting value of the instantaneous tripper of the circuit breaker for motor protection is $12I_n$.
The accuracy of the short-circuit current setting value of the instantaneous tripper is 20% of the short-circuit current setting value.

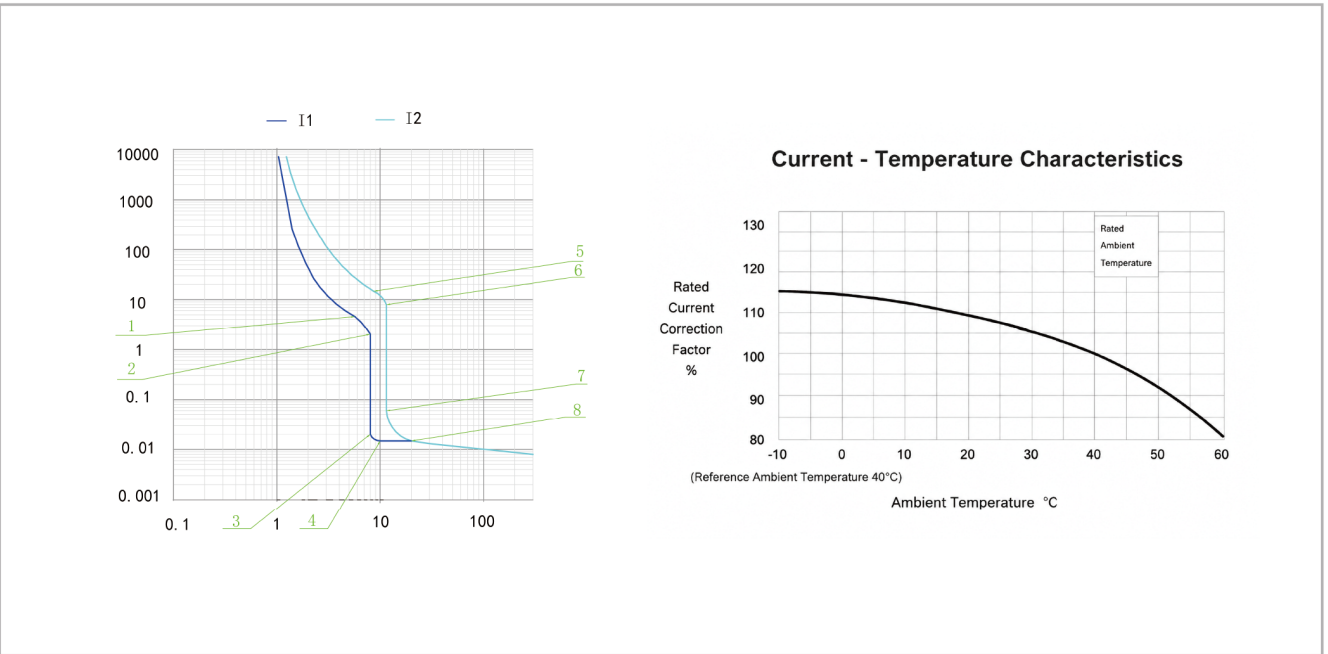
CQM7-250 Operating Characteristic Curve



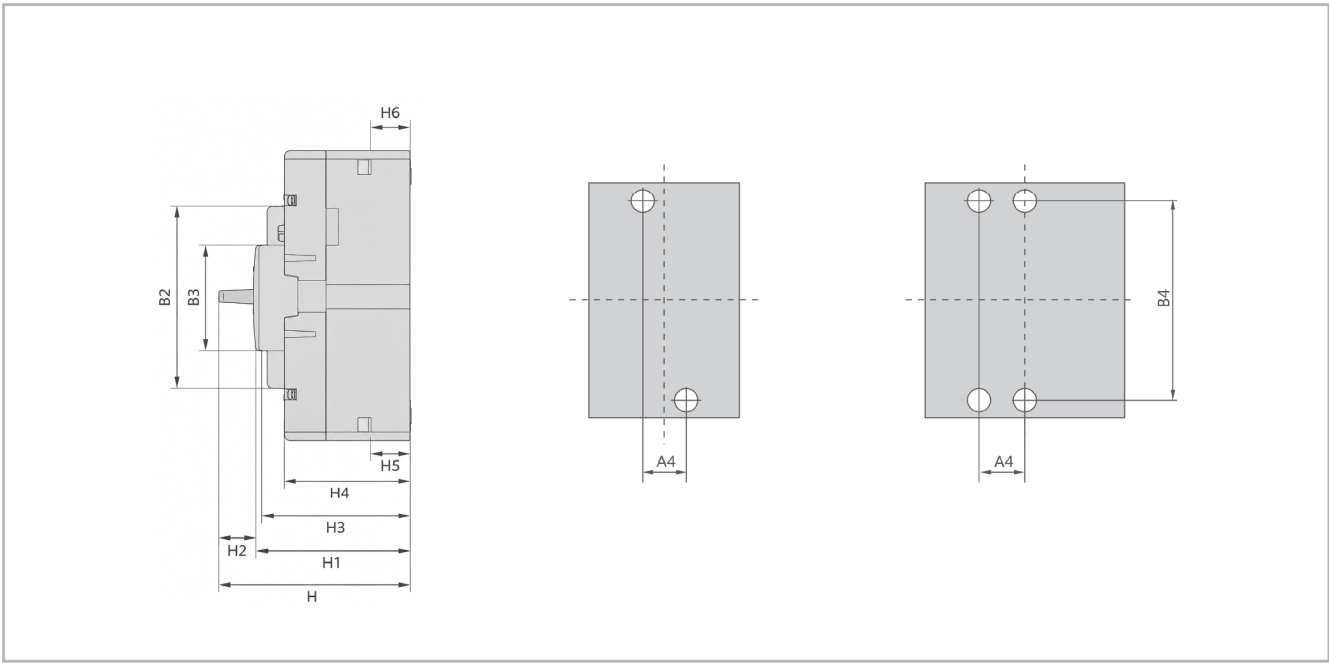
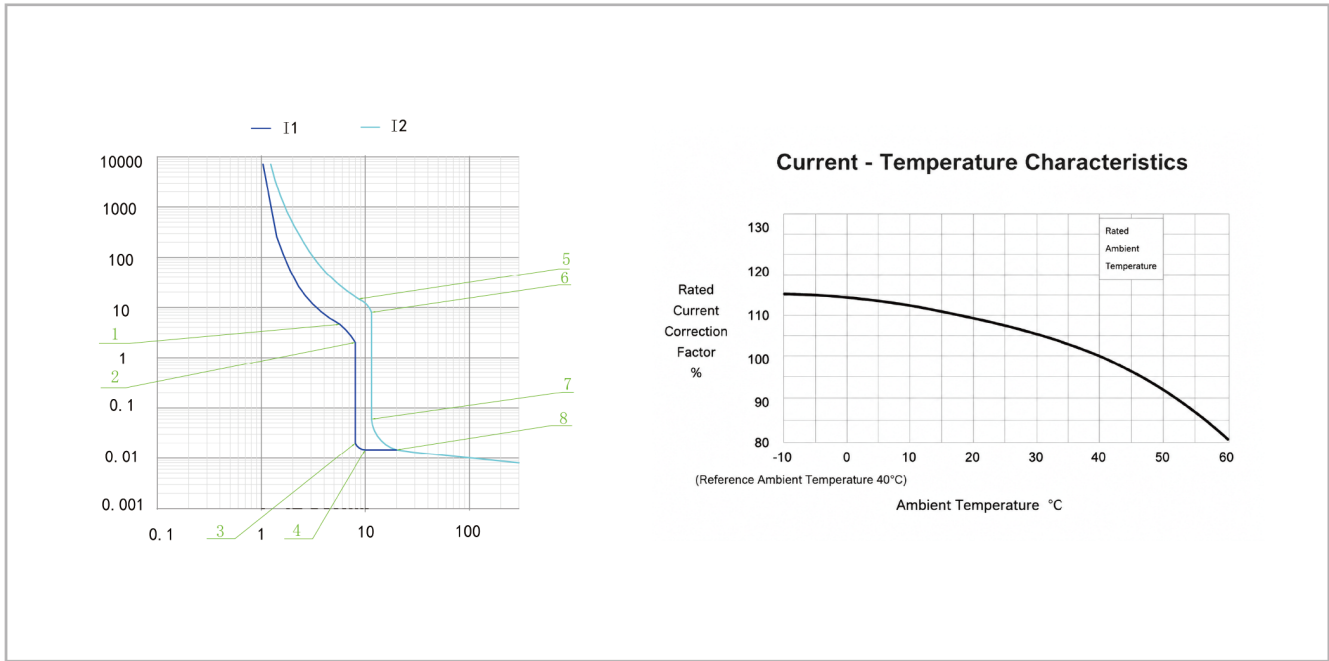
CQM7-125 Operating Characteristic Curve



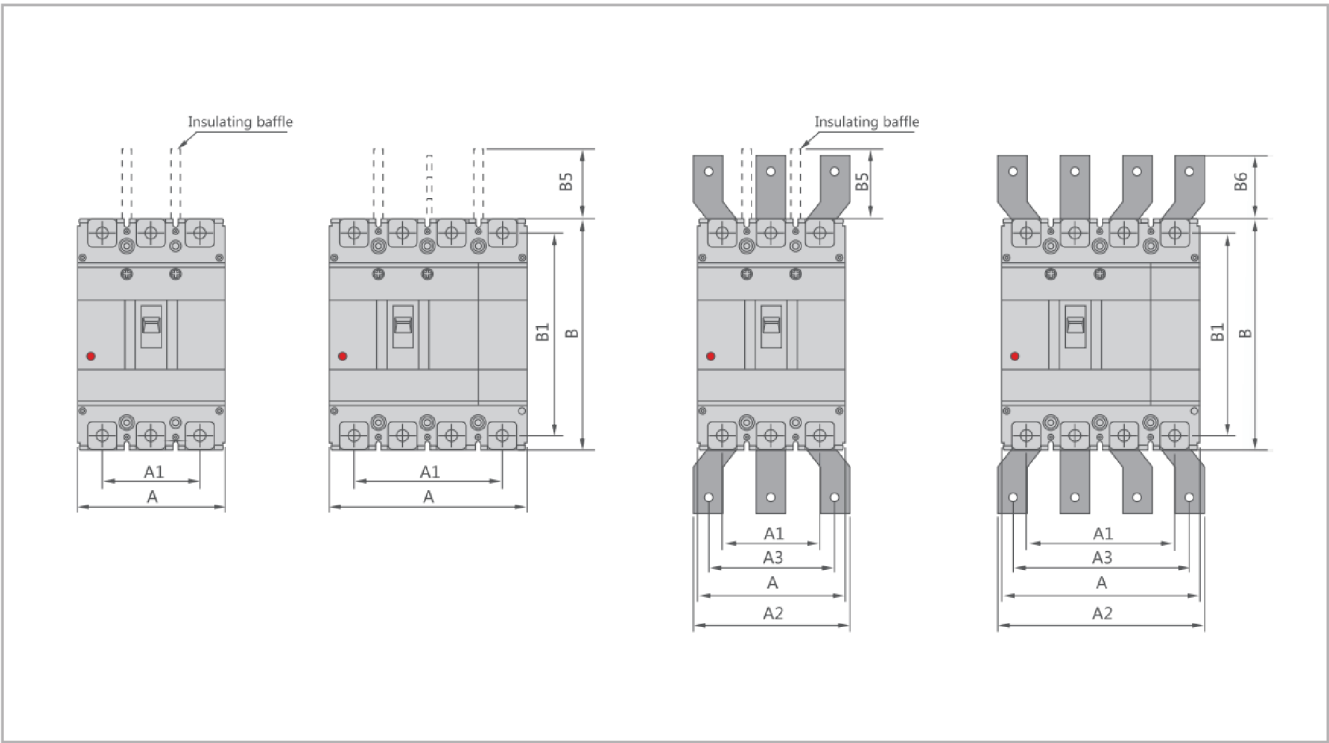
CQM7-400 / 630 Operating Characteristic Curve



CQM7-800 Operating Characteristic Curve



Outline and Installation Dimensions(mm)



Molded case circuit breaker	Overall dimension																				Installation dimensions		Boit	
	A		A1		A2		A3		B	B1	B2	B3	B5	B6	H	H1	H2	H3	H4	H5	H6	A4		B4
	3P	4P	3P	4P	3P	4P	3P	4P																
CQM7-125	77	-	50	-	-	-	-	-	131	116	90.2	45	-	-	82	68.3	3	65.3	56.5	25	25	-	-	M6
CQM7-250	105	-	70	-	-	-	-	-	165	144	101.2	60.8	-	-	95	73.1	6	68.1	61.4	22.3	23.1	-	-	M8
CQM7-400	139	-	88	-	-	-	-	-	257	224.5	150	97	-	-	154.2	110.5	4.5	108	99.5	35.2	36.5	-	-	M10
CQM7-630	136	-	88	-	-	-	-	-	257	224.5	150	97	-	-	154.2	110.5	4.5	108	99.5	35.2	36.5	-	-	M10
CQM7-800	180	-	116	-	-	-	-	-	270	235	150	96	-	-	158.2	116	5	114	103	43.5	44.8	-	-	M12