



CQM6 Series
Molded Case Circuit Breaker
PRODUCT CATALOG



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WEBSITE

V2026.09-CHAC-MKT

CQM6 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 1600A.
- 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

CQM6

G

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125

C

P

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300

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125A

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Product code ①	Extension Code ②	Shell frame grade ③	Breaking capacity ④						Operating method ⑤	Number of poles ⑥
CQM6	G	125	C						P	4
Molded case circuit breaker	— : Thermal and magnetic protection are not adjustable G : Overload alarm without trip function		C	S	L	M	H	P:Motorized operation	125A:2P,3P,4P	
		125	125	15/8	25/18	/	/	/	160A:3P,4P	
		160	160	25/18	35/25	/	50/35	/	250A:2P,3P,4P	
		250	250	25/18	35/25	/	50/35	/	400A:3P,4P	
		400	400	/	35/25	/	50/35	70/50	630A:3P,4P	
		630	630	/	35/25	/	50/35	70/50	800A:3P,4P	
		800	800	/	35/25	/	50/35	70/50	1250A:3P,4P	
		1250	1250	/	/	/	50/35	70/55	1600A:3P	
	1600	1600	/	/	70/20	100/35	100/50			

Trip Unit & Accessories ⑦	Rated current A ⑧		Function ⑨	4P Option Code ⑩	Special code ⑪
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
	160	16,20,32,40,50,63,80,100,125,140,160			
	250	100,125,140,160,180,200,225,250			
	400	250,315,350,400			
	630	250,315,350,400,500,630			
	800	500,630,700,800			
	1250	800,1000,1250			
	1600	800,1000,1250,1400,1500,1600			

Accessory Voltage ⑫			Motorized operating voltage ⑬		Installation ⑭	Terminal Block Option ⑮
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	CQM6-125	CQM6-160	CQM6-250	CQM6-400	CQM6-630	CQM6-800	CQM6-1250	CQM6-1600
Breaking capacity	C,S	C,S,M	C,S,M	S,M,H	S,M,H	S,M,H	M,H	L,M,H
Number of poles	2, 3,4	3,4	2, 3,4	3,4	3,4	3,4	3,4	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							

Power supply side

Left

Right

Handle

Accessories cannot be installed in this part.

Alarm switch

Auxiliary switch

Undervoltage release

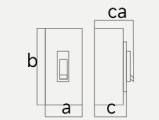
Shunt trip

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 auxiliaryswitch can provide two pairs of switches.Please specly this vhen placing an order.

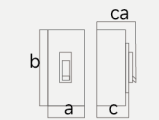
3. For the 250 and 350 specifications,the shunt trip device and undervoltage release for models 400 and above can only be installed on 3-pole circuit breakers.

Main Technical Parameters

Model number		CQM6-125		CQM6-160			
Rated current of frame level Inm(A)		125		160			
Number of poles		2, 3, 4		3, 4			
Rated current In(A),at 40°C,50°C,55°C		16,20,25,32,40,50,63,80,100,125		16,20,25,32,40,50,63,80,100,125 140,160			
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	M	
Short-circuit breaking capacity Icu/Ics(kA)		AC400/415V	15/8	25/18	25/18	35/25	50/35
Selectivity category		A	A	A	A	A	
Number of operating cycles (cycle)	ON	6000		6000			
	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	75×130×68×91		90×155×70×95		90×155×85×109
		4 P	100×130×68×91		120×155×70×95		120×155×85×109

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

Main Technical Parameters

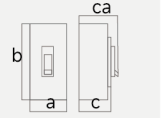
Model number		CQM6-250			CQM6-400			CQM6-630			
Rated current of frame level Inm(A)		250			400			630			
Number of poles		2,3,4			3,4			3,4			
Rated current In(A),at 40°C,50°C,55°C		100,125,140,160,180,200,225,250			250,315,350,400			250,315,350,400,500,630			
Rated operating voltage Ue(V),AC 50/60Hz		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		C	S	M	S	M	H	S	M	H	
Short-circuit breaking capacity Icu/Ics(kA)		AC400/415V	25/18	35/25	50/35	35/25	50/35	70/50	35/25	50/35	70/50
Selectivity category		A	A	A	A	A	A	A	A	A	
Number of operating cycles (cycle)	ON	6000			3000			3000			
	OFF	10000			8000			8000			
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	105×165×70×95		105×165×93×118	140×257×107×156		140×257×107×156			
		4 P	140×165×70×95		140×165×93×118	185×257×107×156		185×257×107×156			

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

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Main Technical Parameters

Model number		CQM6-800			CQM6-1250			CQM6-1600		
Rated current of frame level In(A)		800			1250			1600		
Number of poles		3,4			3,4			3		
Rated current In(A),at 40°C,50°C,55°C		500, 630, 700, 800			800, 1000, 1250			800,1000,1250,1400, 1500,1600		
Rated operating voltage Ue(V),AC 50/60Hz		400/415			400/415			400/415V 660/690V		
Rated insulation voltage Ui (V)		800			1000			1000		
Rated impulse withstand voltage Uimp(KV)		8			12			12		
Breaking capacity designation		S	M	H	M	H		L	M	H
Short-circuit breaking capacity Icu/Ics(kA)		AC400/415V 35/25 50/35 70/50			50/35 70/55 70/20			100/35 100/50		
Selectivity category		A	A	A	A	A		A	A	A
Number of operating cycles	ON	1000			1000			500		
	OFF	3000			3000			3000		
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	210×275×113×162			210×275×113×162			210×268×161×240	
		4 P	280×275×113×162			280×275×113×162				

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:

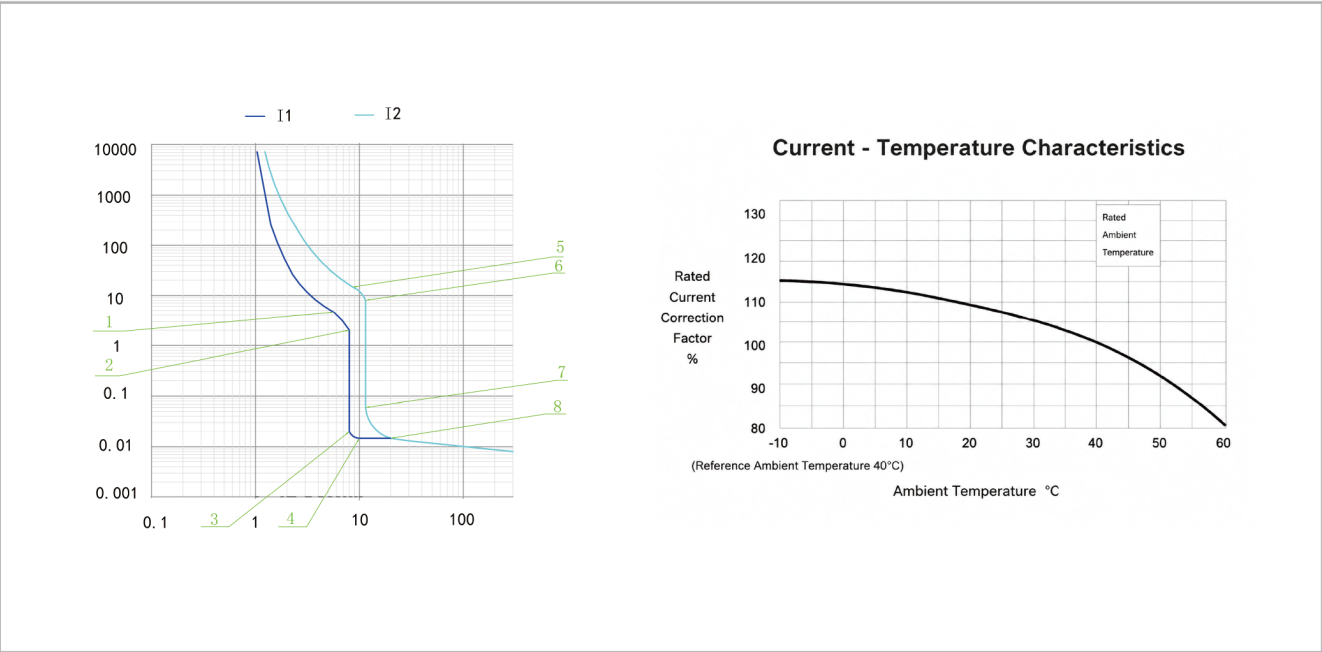
Test current designation	Setting current multiple	Conventional time	Initial state
		$I_n \leq 63$ $63 < I_n$	
Conventional non-tripping current	1.05	$\geq 1h$ $\geq 2h$	Cool state
Conventional tripping current	1.30	$< 1h$ $< 2h$	Hot state

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.

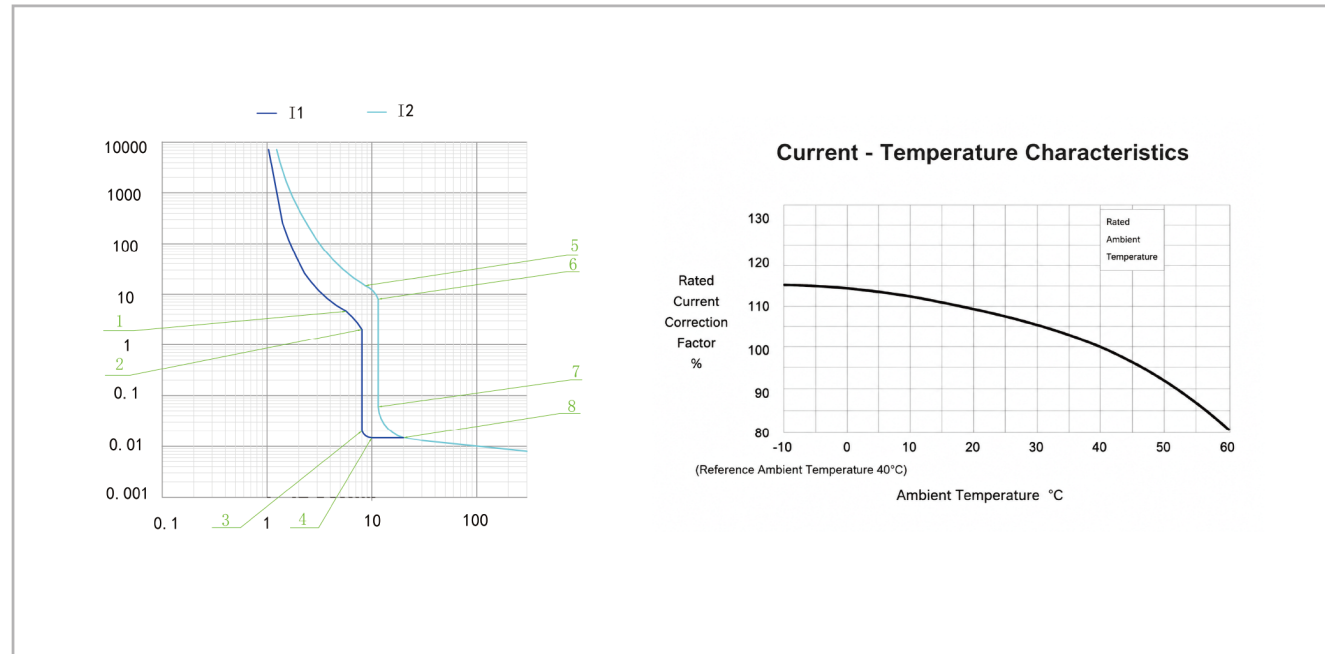
Test current designation	Setting current multiple	Conventional time	Initial state
		$I_n \leq 800$	
Conventional non-tripping current	1.0	$\geq 2h$	Cool state
Conventional tripping current	1.2	$< 2h$	Hot state

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.

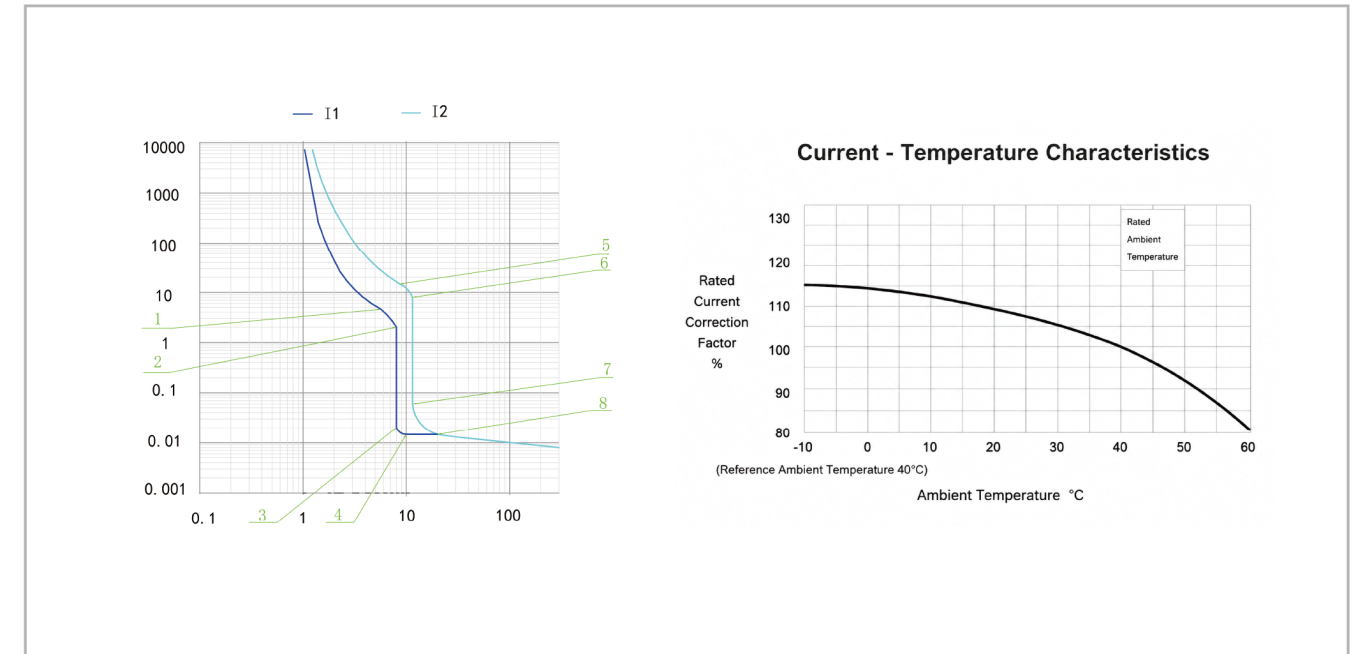
CQM6-125 Operating Characteristic Curve



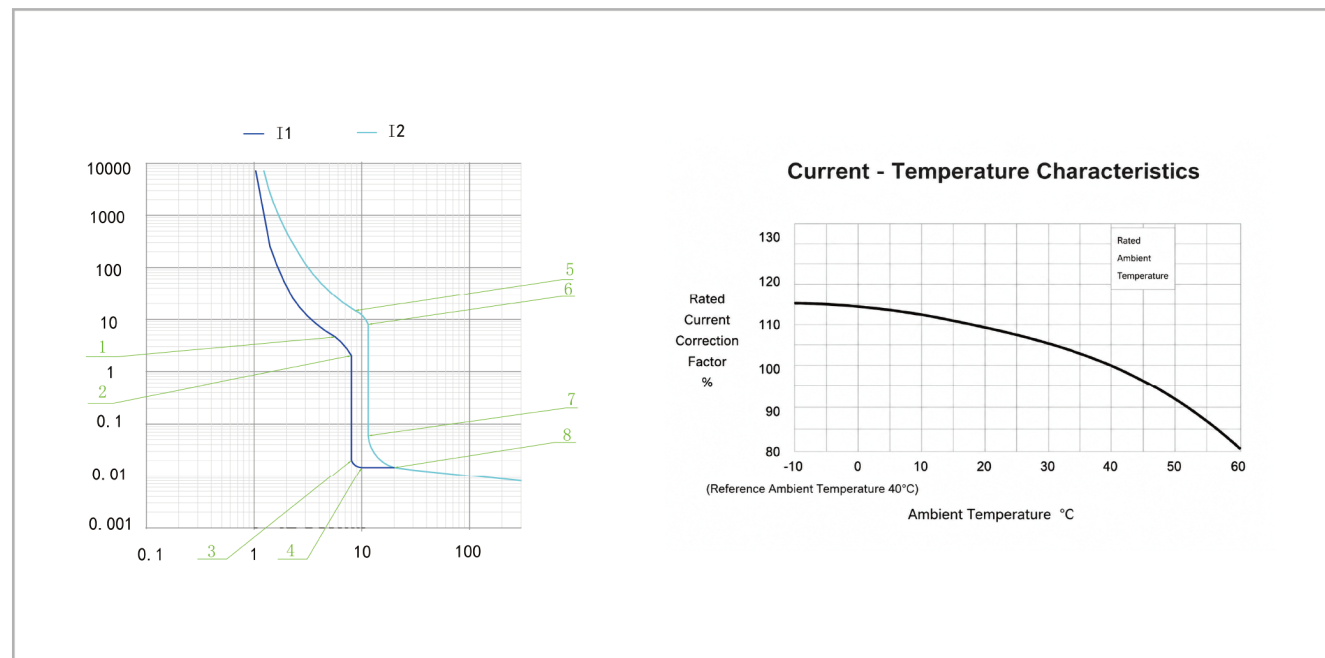
CQM6-160 Operating Characteristic Curve



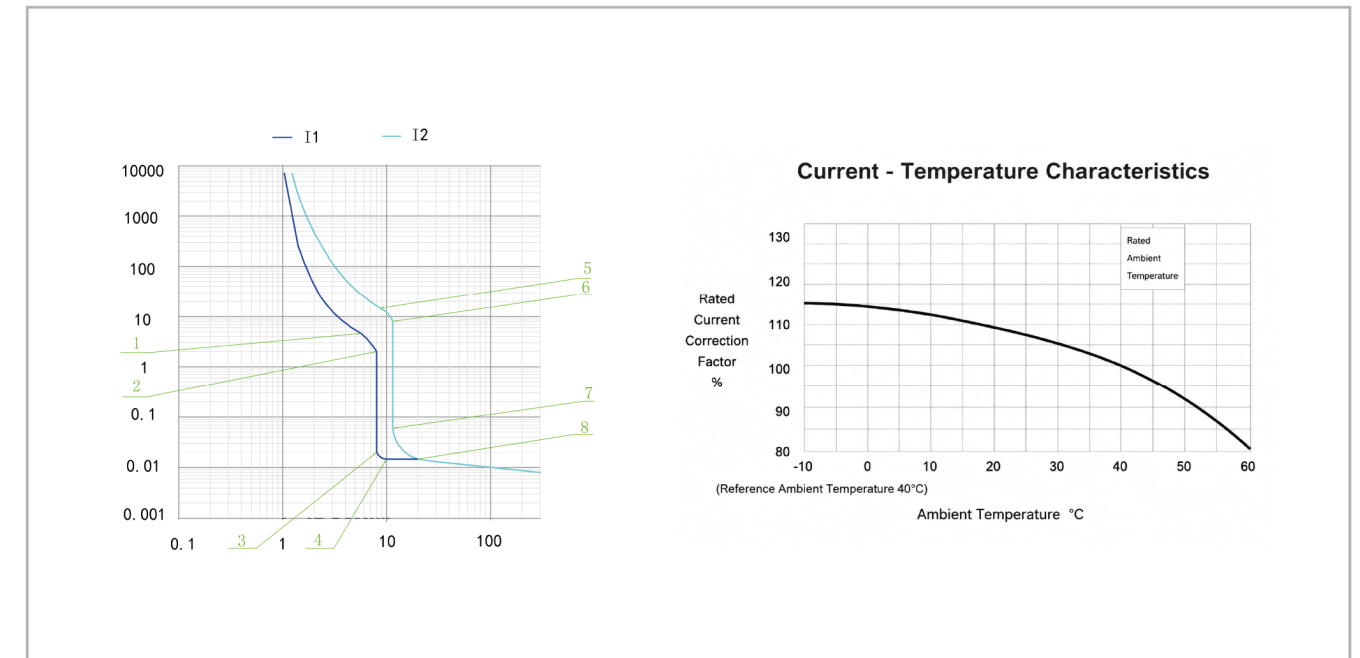
CQM6-400 / 630 Operating Characteristic Curve



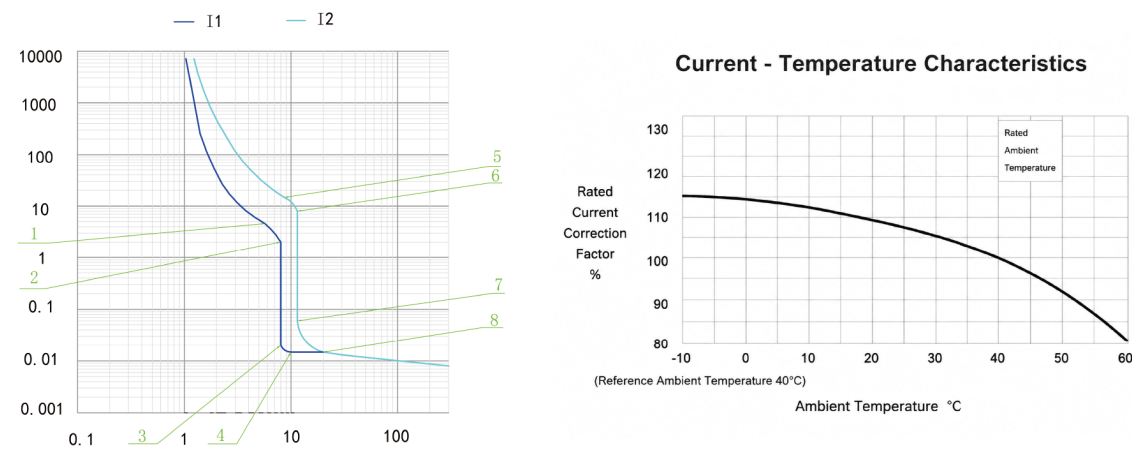
CQM6-250 Operating Characteristic Curve



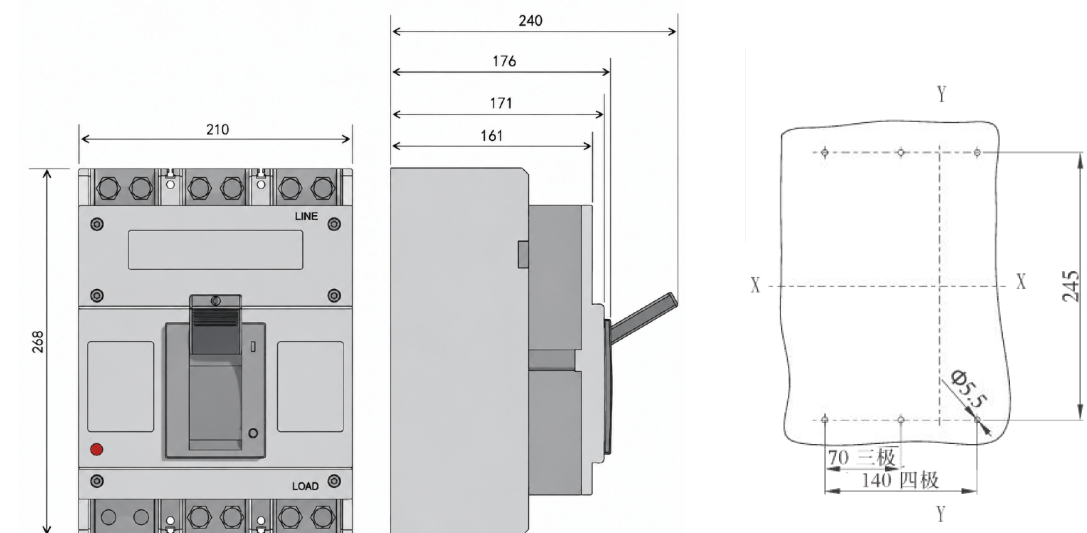
CQM6-800 Operating Characteristic Curve



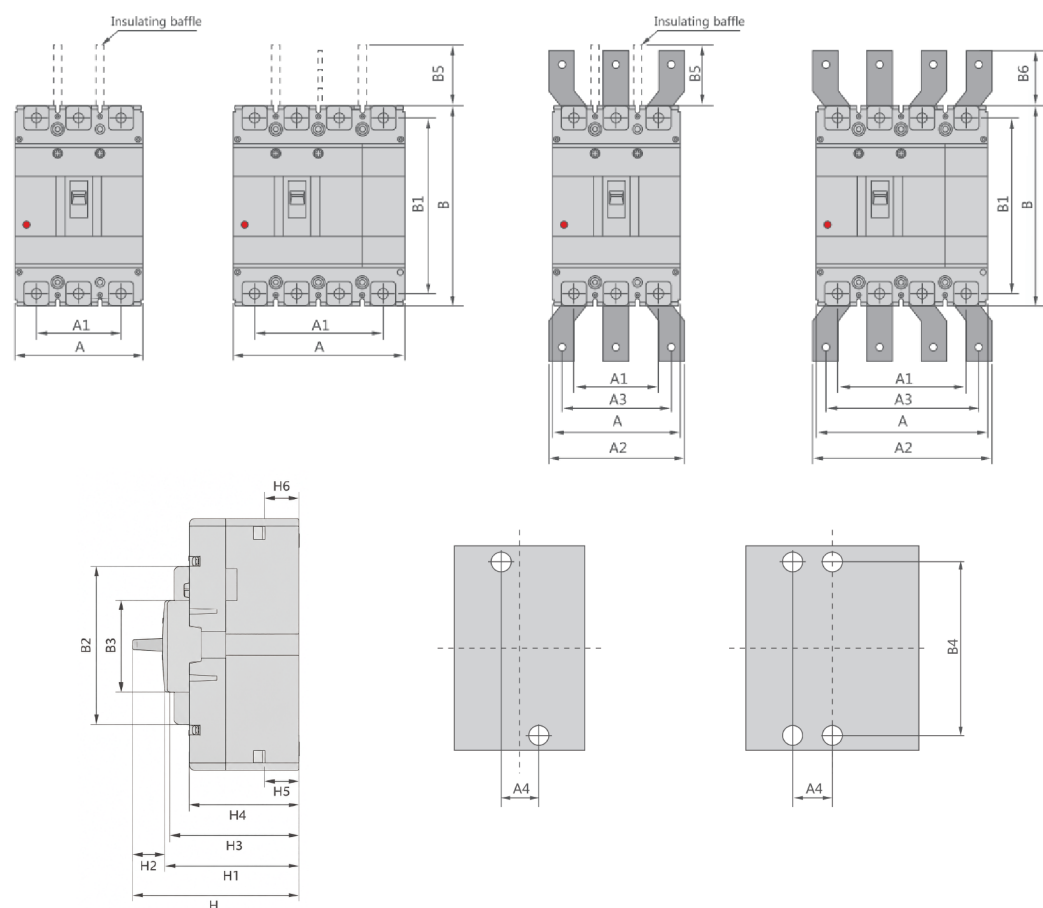
CQM6-1250 Operating Characteristic Curve



CQM6-1600 Outline and Installation Dimensions(mm)



CQM6-125~1250 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																
CQM6-125CSM	75	100	50	75	-	-	-	-	130	114	85	50	48	-	91	73.4	2.4	68	61	23.9	24	25	111	M6
CQM6-160CS	90	120	60	90	-	-	-	-	155	134	103	50	48	-	95	75.5	2.1	70	62	24	24.8	30	132	M8
CQM6-160M	90	120	60	90	-	-	-	-	155	134	103	50	48	-	109.5	90	2.1	85	76.5	23.6	25	30	132	M8
CQM6-250CS	105	140	70	105	-	-	-	-	165	144	102	50	97	-	95	74.2	2.7	70	61.4	22.3	23.1	35	126	M8
CQM6-250M	105	140	70	105	-	-	-	-	165	144	102	50	95	-	118.5	97.7	2.7	93.4	84.8	22.9	23.3	35	126	M8
CQM6-400SMH	140	185	70	132	140	196	112	168	257	230	179	90	103	42	156	111.7	3.5	107.5	99.5	30.9	32.4	44	194	M10
CQM6-630SMH 400A	140	185	88	132	140	196	112	168	257	230	179	90	103	42	156	111.7	3.5	107.5	99.5	30.9	32.4	44	194	M10
CQM6-630SMH 630A	140	185	88	132	140	196	112	168	257	230	179	90	103	42	156	111.7	3.5	107.5	99.5	33.2	34	44	194	M10
CQM6-800SMH 630A	210	280	140	210	180	250	140	210	275	243	192	90	103	87	162.5	118	2.7	113.4	105.5	28.3	30.4	70	242.5	M12
CQM6-800SMH 800A	210	280	140	210	180	250	140	210	275	243	192	90	103	87	162.5	118	2.7	113.4	105.5	29	32.6	70	242.5	M12
CQM6-1250SMH	210	280	140	210	180	250	140	210	275	243	192	90	103	87	162.5	118	2.7	113.4	105.5	31.3	34.4	70	242.5	M10
CQM6-1600LMH	210	-	140	-	-	-	-	-	268	240	118	97	110	-	240	171	5	161	150	33	34	70	245.0	M10



Product code ①	Shell frame grade ②	Breaking capacity ③					Operating method ④	Number of poles ⑤
CQM6L	160	C					P	4
Molded case circuit breaker			C	S	M	H	P:Motorized operation	160A:4P
	160	160	25/18	35/25	/	/	Z:Turning handle	250A:4P
	250	250	25/18	35/25	/	/	W:Direct operation	400A:3P,4P
	400	400	/	35/25	50/35	75/50		630A:3P,4P
	630	630	/	35/25	50/35	75/50		800A:3P,4P
	800	800	/	35/25	50/35	75/50		

Product Features

- ## Compliance

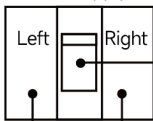
- Meets international and regional standards including
 - IEC/EN 60947-1(General Rules) GB/T 14048.1
 - IEC/EN 60947-2(Circuit-Breakers) GB/T 14048.2
 - IEC/EN 60947-3(Switchgear) GB/T 14048.3
 - IEC/EN 60947-4(Contactors & Motor-Starters) GB/T 14048.4

Accessory Voltage ¹³			Motorized operating voltage ¹⁴		Installation ¹⁵	Terminal Block Option ¹⁶
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		CQM6L-160	CQM6L-250	CQM6L-400	CQM6L-630	CQM6L-800
Breaking capacity		C,S	C,S	S,M,H	S,M,H	S,M,H
Number of poles		4	4	3, 4	3, 4	3, 4
Accessory code						
208、308	Alarm Switch					
210、310	Shunt Release					
220、320	Auxiliary Switch					
230、330	Undervoltage Release					
240、340	Shunt Release and Auxiliary Switch					
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 Switch					
280、380	Two Auxiliary Switches and Shunt Release					

Power supply side



Handle

Accessories cannot be installed in this part.



Alarm switch



Auxiliary switch



Undervoltage release



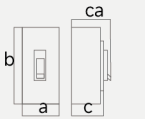
Shunt trip

Main Technical Parameters

Model number			CQM6L-160		CQM6L-250		CQM6L-400		
Rated current of frame level Inm(A)			160		250		400		
Number of poles			4		4		3, 4		
Rated current In(A),at 40°C,50°C,55°C			16, 20, 32, 40, 50, 63, 80, 100, 125, 160		100,125,140,160,180, 200,225,250		250, 315, 350, 400		
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			C	S	C	S	S	M	H
Short-circuit breaking capacity Icu/Ics(kA)AC400/415V			25/18	35/25	25/18	35/25	35/25	50/35	75/50
Selectivity category			A	A	A	A	A	A	A
Number of operating cycles		ON	6000		6000		3000		
(cycle)		OFF	10000		10000		8000		
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	90×155×71×95		105×165×71×96		140×257×108×156		
		4 P	120×155×71×95		140×165×71×96		185×257×108×156		

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

Main Technical Parameters

Model number		CQM6L-630			CQM6L-800		
Rated current of frame level Inm(A)		630			800		
Number of poles		3, 4			3, 4		
Rated current In(A),at 40°C,50°C,55°C		250, 315, 350, 400, 500, 630			500,630,700,800		
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		S	M	H	S	M	H
Short-circuit breaking capacity Icu/Ics(kA)		AC400/415V 35/25 50/35 75/50			35/25 50/35 75/50		
Selectivity category		A	A	A	A	A	A
Number of operating cycles	ON	3000			1000		
	OFF	8000			3000		
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	140×257×108×156			210×275×108×156	
		4 P	185×257×108×156			280×275×108×156	

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:

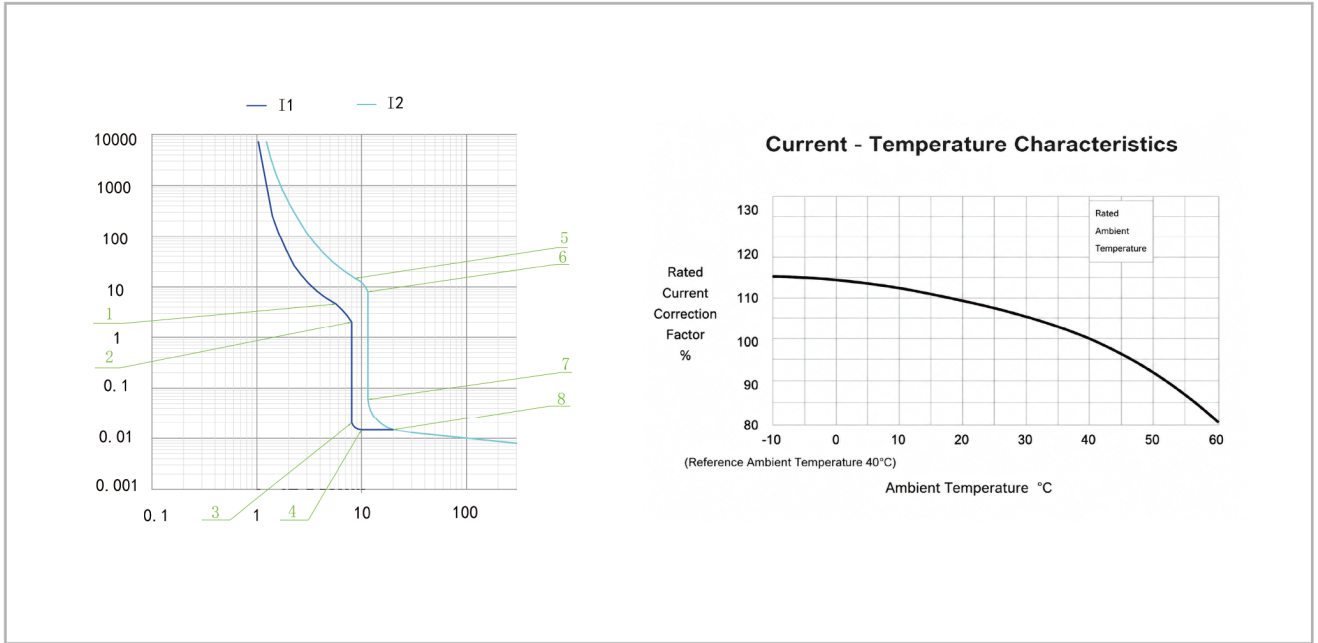
Test current designation	Setting current multiple	Conventional time	Initial state
		In ≤ 63 In > 63	
Conventional non-tripping current	1.05	≥ 1h ≥ 2h	Cool state
Conventional tripping current	1.30	< 1h < 2h	Hot state

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.

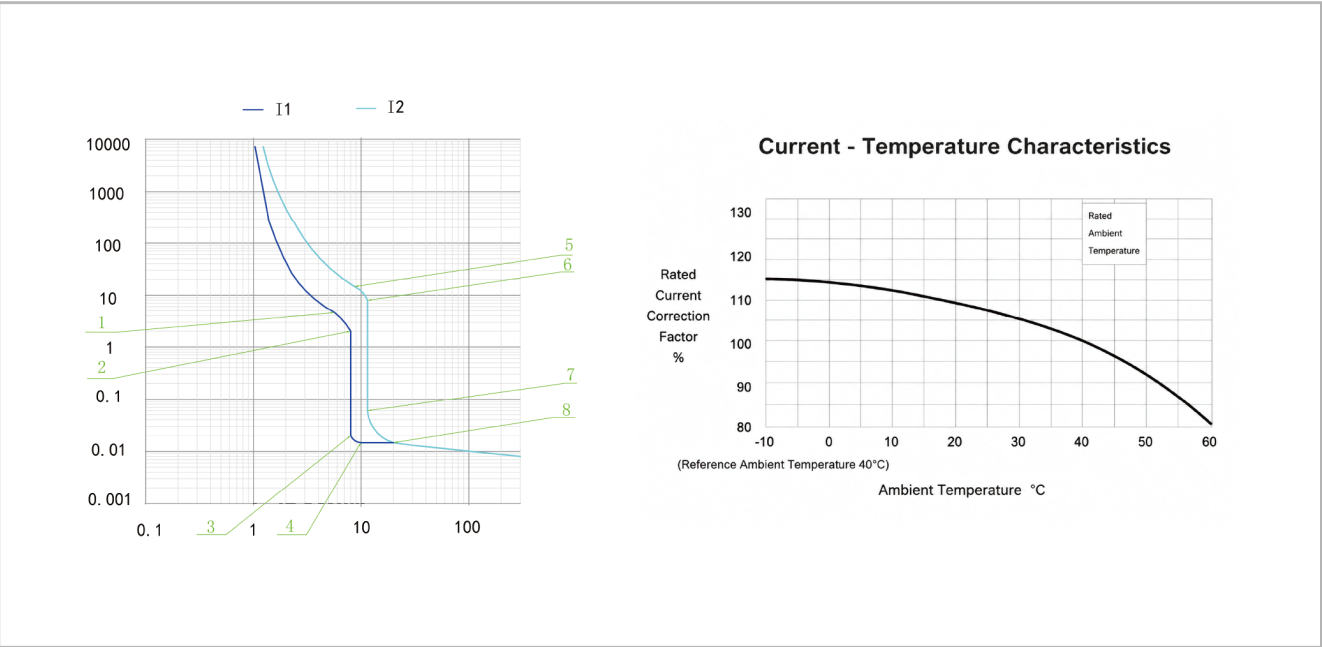
Test current designation	Setting current multiple	Conventional time	Initial state
		In ≤ 800	
Conventional non-tripping current	1.0	≥ 2h	Cool state
Conventional tripping current	1.2	< 2h	Hot state

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 10In. The short-circuit current setting value of the instantaneous tripper of the circuit breaker for motor protection is 12In. The accuracy of the short-circuit current setting value of the instantaneous tripper is 20% of the short-circuit current setting value.

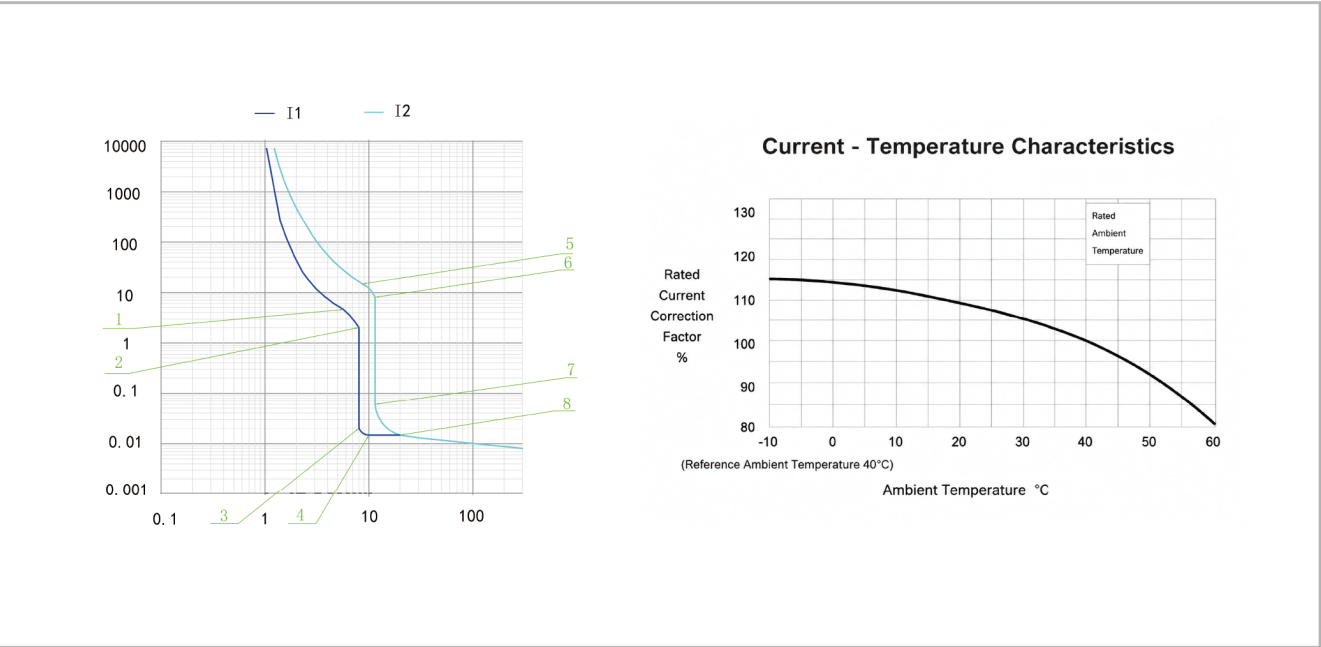
CQM6L-160 Operating Characteristic Curve



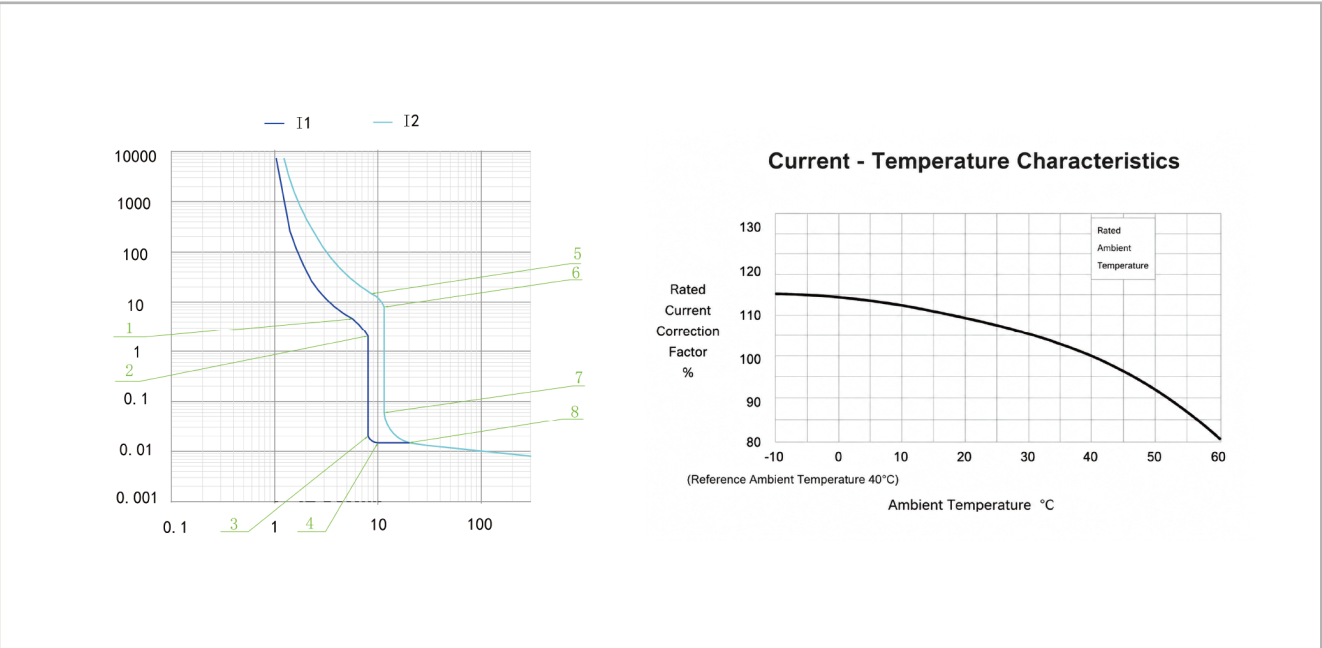
CQM6L-250 Operating Characteristic Curve



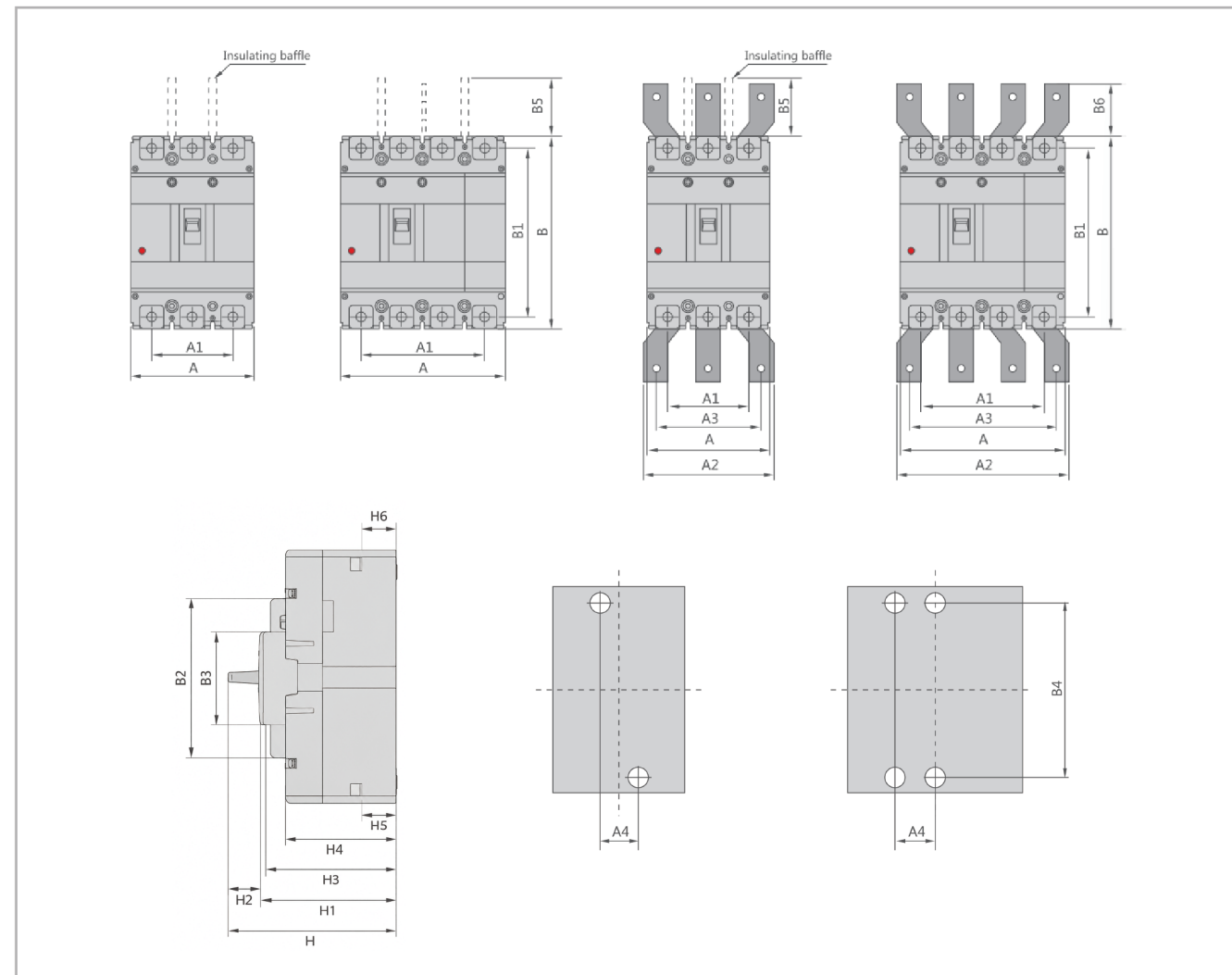
CQM6L-800 Operating Characteristic Curve



CQM6L-400 / 630 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																
CQM6L-160CS	90	120	60	90	-	-	-	-	155	134	103	50	48	-	95	76	2.2	70.7	62.3	23.8	24.6	30	132	M8
CQM6L-250CS	105	140	70	105	-	-	-	-	165	144	102	50	97	-	95.8	75	2.8	71	62.2	22.9	23.3	35	126	M8
CQM6L-400SMH	140	185	88	132	140	196	112	168	257	230	179	90	103	42	156	112.1	3.5	107.5	99.6	31.4	32	44	194	M10
CQM6L-630SMH 400A	140	185	88	132	140	196	112	168	257	230	179	90	103	42	156	112.1	3.5	107.5	99.6	31.4	32	44	194	M10
CQM6L-630SMH 630A	140	185	88	132	140	196	112	168	257	230	179	90	103	42	156	112.1	3.5	107.5	99.6	32.4	34	44	194	M10
CQM6L-800SMH 630A	210	280	140	210	180	250	140	210	275	243	192	90	103	87	156	112.5	2.7	107.6	99.8	25.9	27	70	242.5	M12
CQM6L-800SMH 800A	210	280	140	210	180	250	140	210	275	243	192	90	103	87	156	112.5	2.7	107.6	99.8	27.9	29	70	242.5	M12

CQM6RT Series

Molded case circuit breaker



Product Features

- Field-Adjustable Settings: Allows for precise on-site customization of both overload (Ir) and short-circuit (Im) protection settings for optimized coordination.
- Dual Protection Curves: Available with trip units optimized for either "Power Distribution" or "Motor Protection" applications.
- Proven Robustness: Designed for reliable operation across a wide temperature range (-35°C to +70°C) and at high altitudes up to 2000m.
- Accessory Compatibility: Supports a full range of accessories, including shunt releases and undervoltage trips, for extended control capabilities.

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

CQM6	RT	-	160	H	Z	/	3	300	2	A	I	Q1	D1	Q	2
①	②		③	④	⑤		⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭

Product code ①	Shell frame grade ②	Shell frame grade ③	Breaking capacity ④			
CQM6	RT	160	C			
Molded case circuit breaker	RT stands for thermomagnetic ally adjustable T、A stands for single adjustable (i.e.,thermally adjustable/magn etically fixed).		C S M H			
		160	160	25/18	35/25	50/35 /
		250	250	25/18	35/25	50/35 /
		400	400	/	35/25	50/35 75/50
		630	630	/	35/25	50/35 75/50
		800	800	/	35/25	50/35 75/50
		1250	1250	/	35/25	50/35 75/50

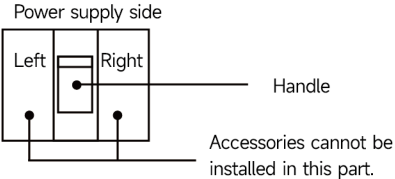
Operating method ⑤	Number of poles ⑥	Trip Unit & Accessories ⑦	Rated current A	
P	4	300	125A	
P:Motorized operation Z:Turn the handle W:Direct operation DElectric operation DC1 DC 2,DC3	160A:3P,4P 250A:3P,4P 400A:3P,4P 630A:3P,4P 800A:3P,4P 1250A:3P,4P	The first digit indicates the type of detent 2:Instantaneous detent only 3:Duplicate detent Note:The last two digits are the accessory designator(see accessory table).	160 32, 40, 50, 63, 80, 100, 125, 140, 160	
			250 100, 125, 140, 160, 180, 200, 225, 250	
			400 250, 315, 350, 400	
			630 250, 315, 350, 400, 500, 630	
			800 500, 630, 700, 800	
			1250 800, 1000, 1250	

Application ⑧	Optional code for Level 4 products ⑨	Special code ⑩
2	A	I
1:For power distribution	A:N-pole unprotected,not combinable A	I:Overload alarm non trip function
2:For motor protection	B:N-pole unprotected,combinable	

Accessory Voltage ⑪			Motorized operating voltage ⑫		Installation ⑬	Terminal Block Option ⑭
Q1			D1		Q	2
Undervoltage detent UVT	Shunt release	Auxiliary alarm	CD1	CD2 D5:AC230V	Q:Front of plate H:Rear of plate C:Inserted	1:No installation 2:Installation
	Shunt	Auxiliary	D1:AC220V	D6:AC110V		
	Q1:AC220V	J1:AC125V	D2:AC230V	D7:DC220V		
	Q2:AC240V	J2:AC250V	D3:AC380V	D8:DC110V		
	Q3:AC380V	J3:DC125V	D4:AC400V	D9:AC110~240V		
Q4:AC415V	F4:DC24V	J4:DC24V		D10:DC100~220V		
			Note:When motorized operation is selected,please refer to the external accessories for the two voltages applicable for motorized operation.			

Accessory List

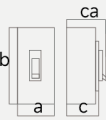
Model number		CQM6RT-160	CQM6RT-250	CQM6RT-400	CQM6RT-630	CQM6RT-800	CQM6RT-1250
Breaking capacity		C,S,M	C,S,M	S,M,H	S,M,H	S,M,H	S,M,H
Number of poles		3,4	3,4	3,4	3,4	3,4	3,4
Accessory code							
208、308	Alarm Switch						
210、310	Shunt Release						
220、320	Auxiliary Switch						
230、330	Undervoltage Release						
240、340	Shunt Release and Auxiliary Switch						
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 swich
- Auxiliary switch
- Undervoltage release
- Shunt trip

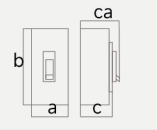
- MH can provide thre new products right auxiary switch,left stunt and left undervoltage for customrrs to chose.
- In 220,320,240,,340,270,370 specincafons,the auxiliary switch can be used for Mopairs of swches, which shoudbe specied when ordering.

Main Technical Parameters

Model number			CQM6RT-160			CQM6RT-250		
Rated current of frame level Inm(A)			160			250		
Number of poles			3, 4			3, 4		
Rated current In(A),at 40°C,50°C,55°C			32, 40, 50, 63, 80, 100, 125, 140, 160			100,125,140,160,180,200,225,250		
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	M	C	S	M
Short-circuit breaking capacity Icu/Ics(kA)AC400/415V			25/18	35/25	50/35	25/18	35/25	50/35
Selectivity category			A	A	A	A	A	A
Number of operating cycles		ON	6000			6000		
(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	90×155×71×95		90×155×85×109	105×165×71×96		105×165×93×119
		4 P	120×155×71×95		120×155×85×109	140×165×71×96		140×165×93×119

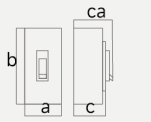
Note: ● for optional accessories; “-” for no optional accessories.

Main Technical Parameters

Model number		CQM6RT-400			CQM6RT-630		
Rated current of frame level Inm(A)		400			630		
Number of poles		3, 4			3, 4		
Rated current In(A),at 40°C,50°C,55°C		250, 315, 350, 400			250, 315, 350, 400, 500, 630		
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		S	M	H	S	M	H
Short-circuit breaking capacity Icu/Ics(kA)		AC400/415V 35/25 50/35 75/50			35/25 50/35 75/50		
Selectivity category		A	A	A	A	A	A
Number of operating cycles (cycle)	ON	3000			3000		
	OFF	8000			8000		
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	140×257×108×156			140×257×108×156	
		4 P	185×257×108×156			185×257×108×156	

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

Main Technical Parameters

Model number		CQM6RT-800			CQM6RT-1250		
Rated current of frame level Inm(A)		800			1250		
Number of poles		3, 4			3, 4		
Rated current In(A),at 40°C,50°C,55°C		500, 630, 700, 800			800, 1000, 1250		
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		S	M	H	S	M	H
Short-circuit breaking capacity Icu/Ics(kA)		AC400/415V 35/25 50/35 75/50			35/25 50/35 75/50		
Selectivity category		A	A	A	A	A	A
Number of operating cycles	ON	1000			1000		
	OFF	3000			3000		
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	210×275×114×163			210×275×114×163	
		4 P	280×275×114×163			280×275×114×163	

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:

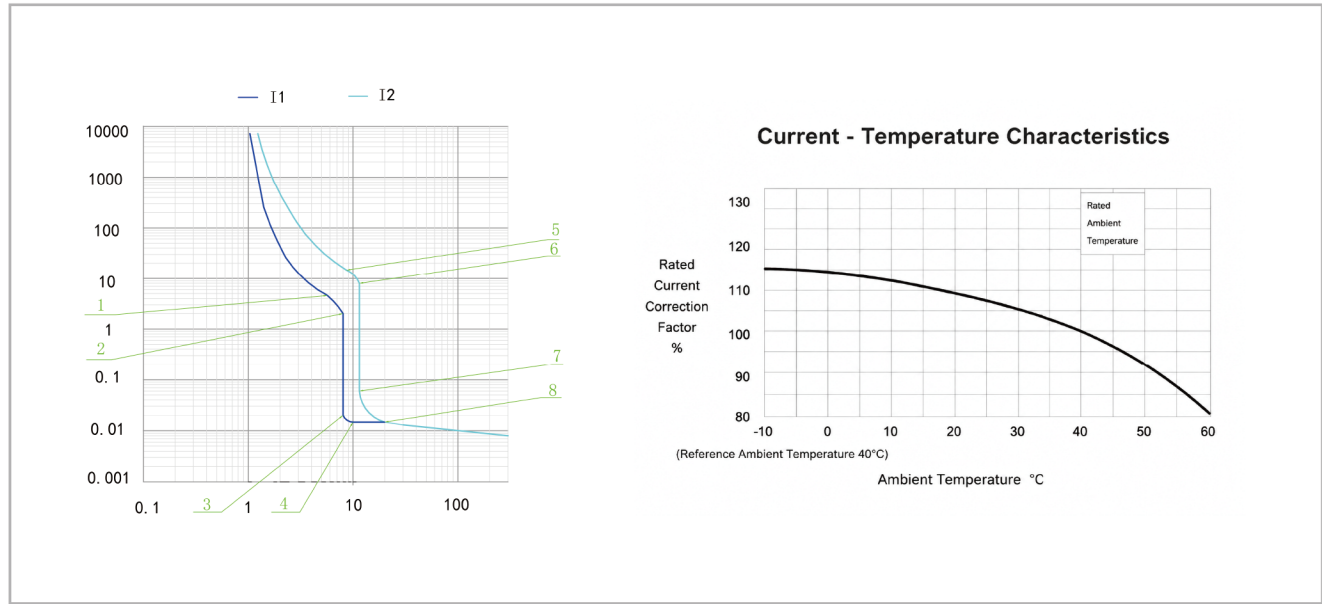
Test current designation	Setting current multiple	Conventional time	Initial state
		$I_n \leq 63$ $I_n > 63$	
Conventional non-tripping current	1.05	$\geq 1h$ $\geq 2h$	Cool state
Conventional tripping current	1.30	$< 1h$ $< 2h$	Hot state

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.

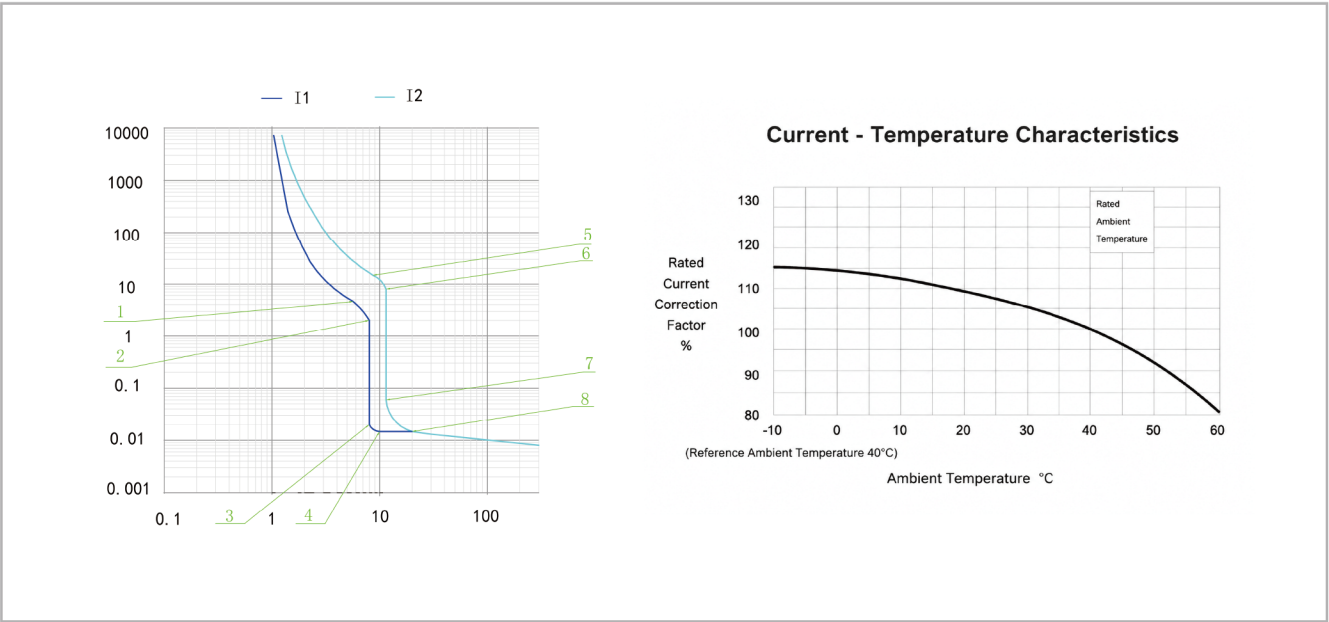
Test current designation	Setting current multiple	Conventional time	Initial state
		$I_n \leq 800$	
Conventional non-tripping current	1.0	$\geq 2h$	Cool state
Conventional tripping current	1.2	$< 2h$	Hot state

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.

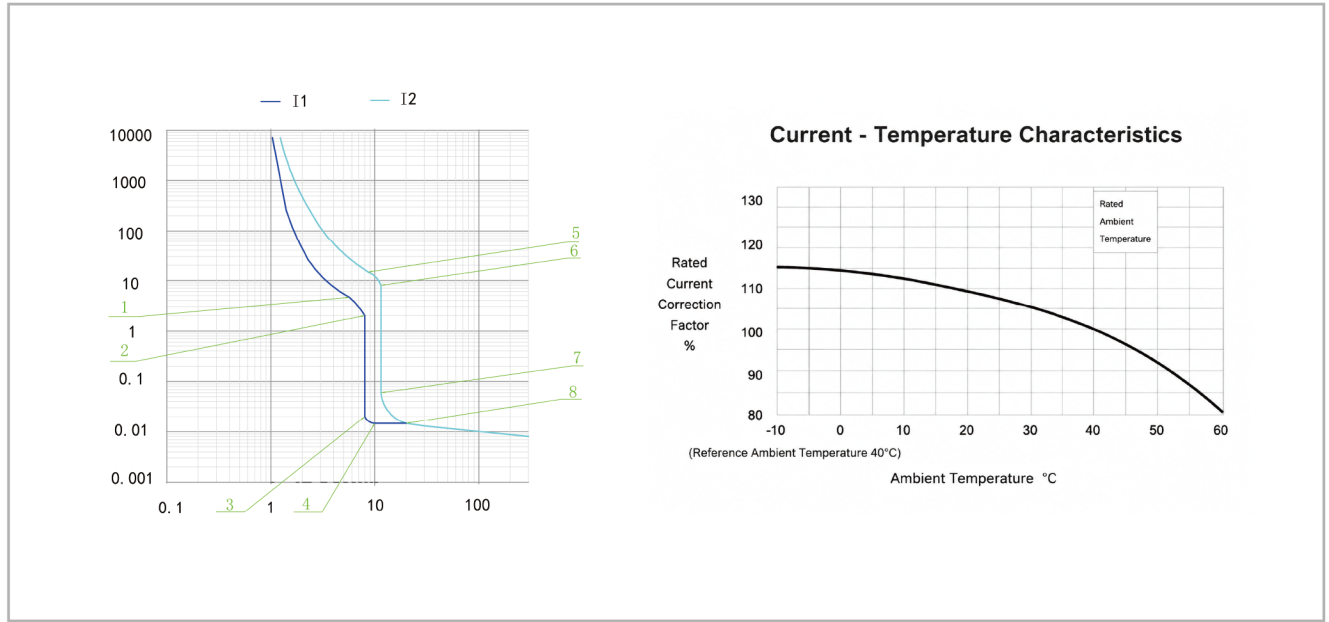
CQM6RT-160 Operating Characteristic Curve



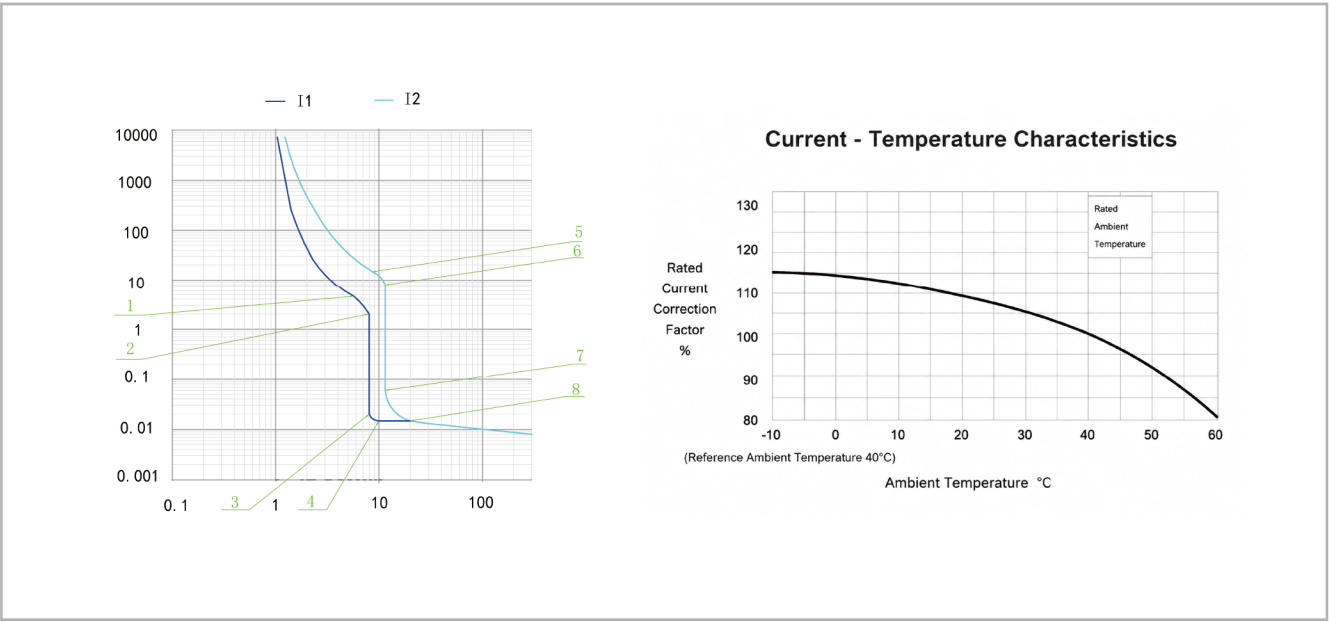
CQM6RT-250 Operating Characteristic Curve



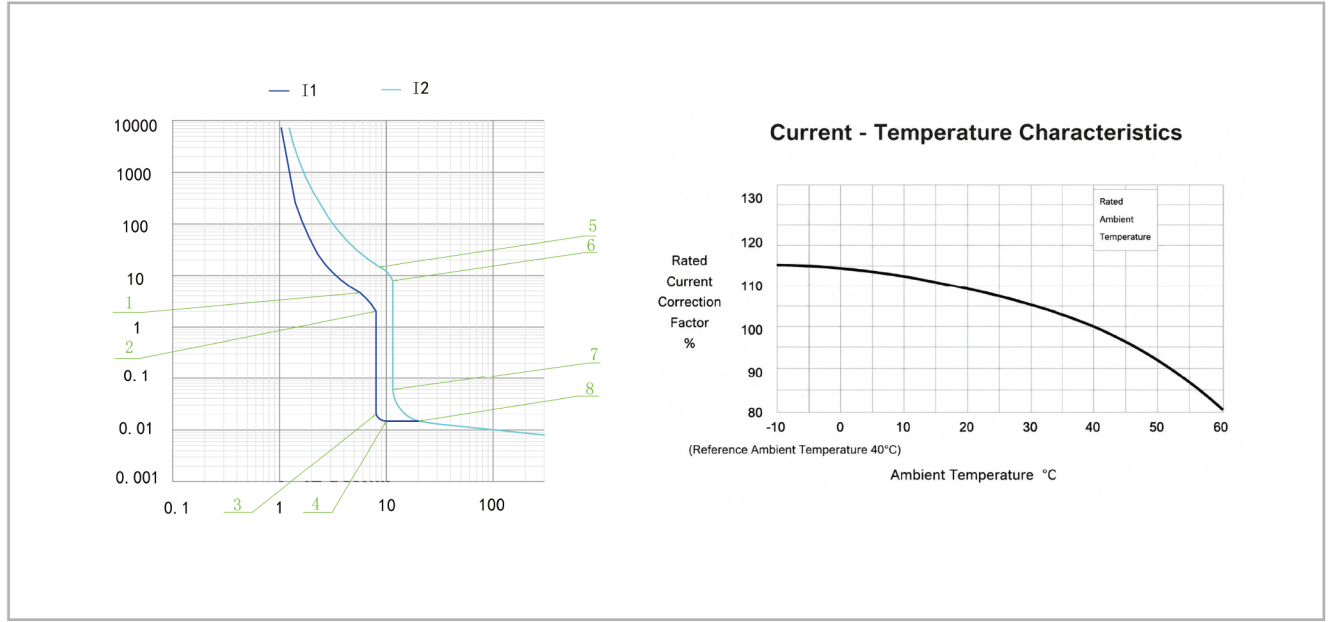
CQM6RT-800 Operating Characteristic Curve



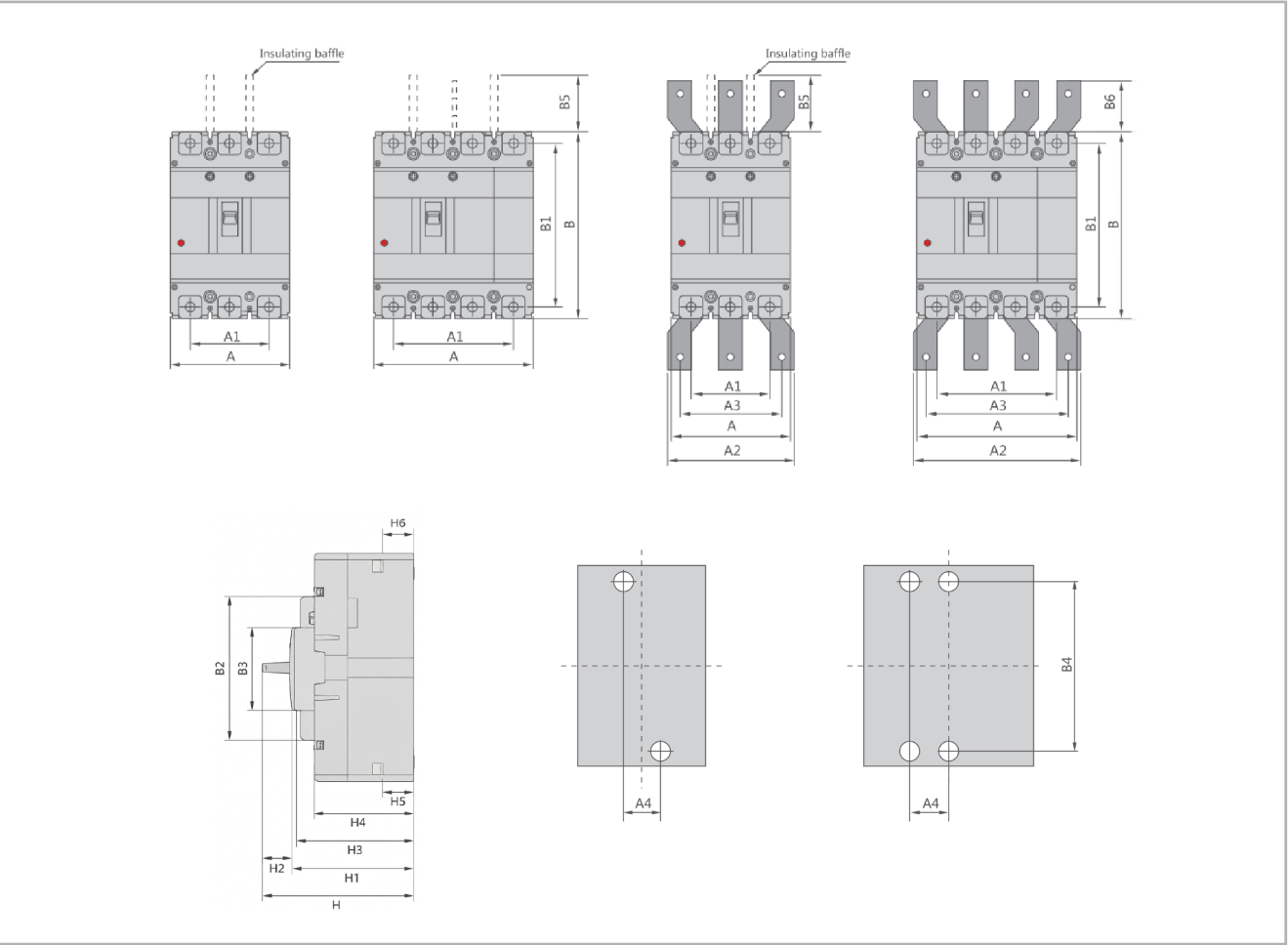
CQM6RT-400 / 630 Operating Characteristic Curve



CQM6RT-1250 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																
CQM6RT-160CS	90	120	60	90	-	-	-	-	155	134	103	50	48	-	95	76	2.2	70.7	62.3	23.8	24.6	30	132	M8
CQM6RT-160M	90	120	60	90	-	-	-	-	155	134	103	50	48	-	109.2	90	2.2	84.9	76.4	23.1	24.9	30	132	M8
CQM6RT-250CS	105	140	70	105	-	-	-	-	165	144	102	50	97	-	95.8	75	2.8	71	62.2	22.7	23.3	35	126	M8
CQM6RT-250M	105	140	70	105	-	-	-	-	165	144	102	50	95	-	118.6	97.6	2.8	93.4	84.5	23.1	23.2	35	126	M8
CQM6RT-400	140	185	88	132	140	196	112	168	257	230	179	90	103	42	156	112.1	3.5	107.5	99.6	30.9	32	44	194	M10
CQM6RT-630 SMH 400A	140	185	88	132	140	196	112	168	257	230	179	90	103	42	156	112.1	3.5	107.5	99.6	30.9	34	44	194	M10
CQM6RT-630 SMH 630A	140	185	88	132	140	196	112	168	257	230	179	90	103	42	156	112.1	3.5	107.5	99.6	33.4	30.7	44	194	M10
CQM6RT-800 SMH 630A	210	280	140	210	180	250	140	210	275	243	192	90	103	87	162.5	118.4	2.7	114.3	106	28.5	32.7	70	242.5	M12
CQM6RT-800 SMH 800A	210	280	140	210	180	250	140	210	275	243	192	90	103	87	162.5	118.4	2.7	114.3	106	29.5	34.7	70	242.5	M12
CQM6RT-1250 SMH	210	280	140	210	180	250	140	210	275	243	192	90	103	87	162.5	118.4	2.7	114.3	106	31.5	32	70	242.5	M10

CQM6E Series
Electronic molded case circuit breaker



Product Features

- Precise Electronic Trip: Features an adjustable electronic release for highly accurate Long-Time, Short-Time, and Instantaneous (L-S-I) protection.
- Advanced Ground Fault Protection: Includes a dedicated ground fault (G) protection setting for enhanced system safety.
- Visual Status Indication: Equipped with an intuitive control panel featuring a current light bar and clear indicators for overload and pre-alarm status.
- Communication Ready: Provides the foundation for smart functionality, supporting integration with motorized operators for remote control.

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

CQM6	E	-	160	S	P/3	400	160A	2	A	I
①	②		③	④	⑤	⑥	⑦	⑧	⑨	⑩

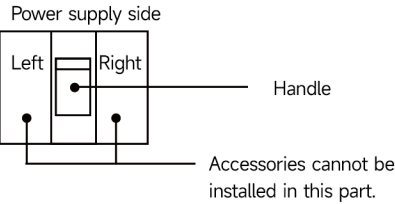
Product code ①	Shell frame grade ②	Shell frame grade ③	Breaking capacity ④			
CQM6	E	160		S	M	H
Molded case circuit breaker	E Electronically Adjustable	160	160	/	50/35	50/50
		250	250	/	50/35	50/50
		400	400	35/25	50/35	70/50
		630	630	35/25	50/35	70/50
		800	800	35/25	50/35	70/50
		1250	1250	/	50/35	70/55

Operating method ⑤	Number of poles ⑤	Trip Unit & Accessories ⑥	Rated current A ⑦
P	3	400	160A
P:Motorized operation Z:Turn the handle W:Direct operation	160A:3P,4P 400A:3P,4P 800A:3P,4P 1600A:3P,4P	250A:3P,4P 630A:3P,4P 1250A:3P,4P Note:The last two digits are the accessory code (see attachment)	160, 250, 400, 630, 800, 1000, 1250

Function ⑧	4P Option Code ⑨	Special code ⑩
2	A	I
1:For power distribution 2:For motor protection	A:N-pole without protection,can not be combined B:N-pole without protection,can be combined C:N-pole with protection,can be combined D:N-pole with protection,can not be combined Note:If the customer does not have a clear request,four-pole products will be defaulted to the B category	I: Overload alarm non trip function

Accessory List

Model number		CQM6E-160	CQM6E-250	CQM6E-400	CQM6E-630	CQM6E-800	CQM6E-1250
Breaking capacity		M,H	M,H	S,M,H	S,M,H	S,M,H	S,M,H
Number of poles		3,4	3,4	3,4	3,4	3,4	3,4
Accessory code							
308	Alarm Switch						
310	Shunt Release						
320	Auxiliary Switch						
330	Undervoltage Release						
340	Shunt Release and Auxiliary Switch						
360	Two Auxiliary Switches						
370	Auxiliary Switch and Undervoltage Release						
318	Shunt Release and Alarm Switch						
328	Auxiliary Switch and Alarm Switch						
338	Undervoltage Release and Alarm Switch						
348	Shunt Release, Auxiliary Switch and Alarm Switch						
368	Two Auxiliary Switches and Alarm Switch						
378	Auxiliary Switch, Undervoltage Release and Alarm Switch						
380	Two Auxiliary Switches and Shunt Release						



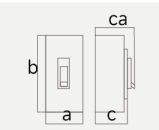
- Alarm switch
- Auxiliary switch
- Undervoltage release
- Shunt trip

Main Technical Parameters

Model number		CQM6E-160		CQM6E-250	
Rated current of frame level Inm(A)		160		250	
Number of poles		3,4		3,4	
Rated current In(A),at 40°C,50°C,55°C		32, 63, 125, 160		160,250	
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		M	H	M	H
Short-circuit breaking capacity Icu/Ics(kA)		AC400/415V	50/35	50/50	50/35
Rated short-time withstand current Icw(kA),1s		AC400/415V	2	2	5
Selectivity category		B	B	B	B
Number of operating cycles (cycle)	ON	6000		6000	
	OFF	10000		10000	
Electronic decoupling (adjustable)	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	●	●	●	●
Overall dimensions (mm) (a-b-c-ca)	3 P	90×155×85×109		105×165×93×119	
	4 P	120×155×85×10		140×165×93×119	

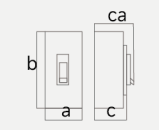
Note: ● for optional accessories; "—" for no optional accessories.

Main Technical Parameters

Model number		CQM6E-400			CQM6E-630		
Rated current of frame level Inm(A)		630			630		
Number of poles		3,4			3,4		
Rated current In(A),at 40°C,50°C,55°C		400			400 , 630		
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		S	M	H	S	M	H
Short-circuit breaking capacity Icu/Ics(kA)		AC400/415V	35/25	50/35	70/50	35/25	50/35 70/50
Rated short-time withstand current Icw(kA),1s		AC400/415V	8	8	8	8	8
Selectivity category		B	B	B	B	B	B
Number of operating cycles (cycle)	ON	3000			3000		
	OFF	8000			8000		
Electronic decoupling (adjustable)	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	●	●	●	●	●	●
Overall dimensions (mm) (a-b-c-ca)		3 P	140×257×108×156			140×257×108×156	
		4 P	185×257×108×156			185×257×108×156	

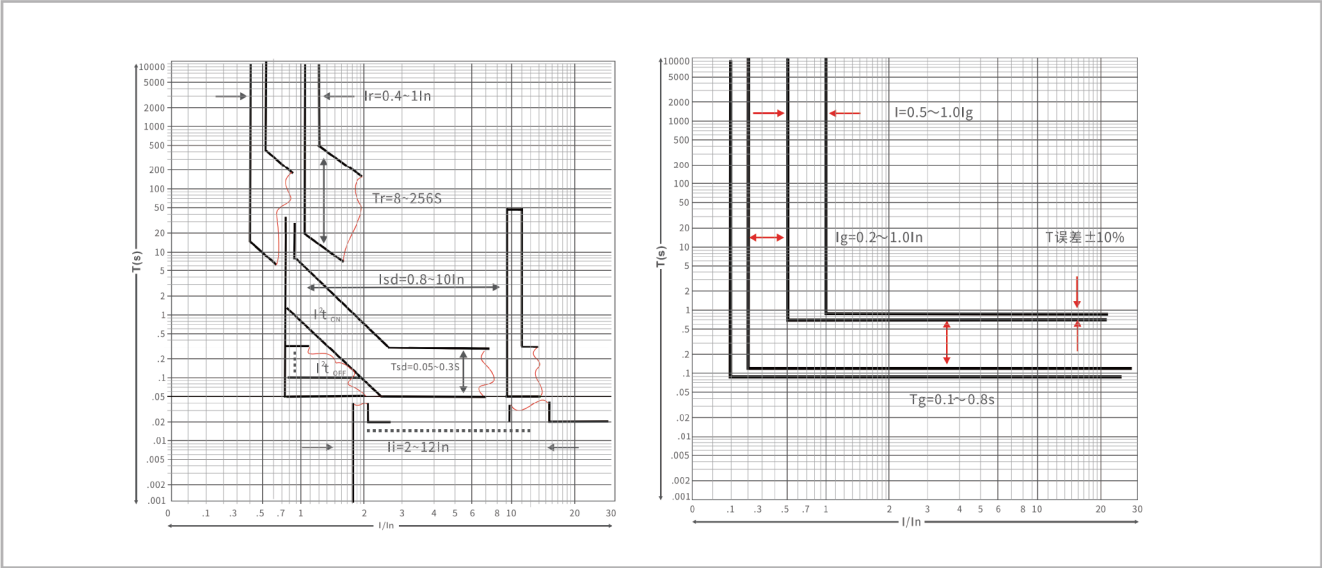
Note: ● for optional accessories; “-” for no optional accessories.

Main Technical Parameters

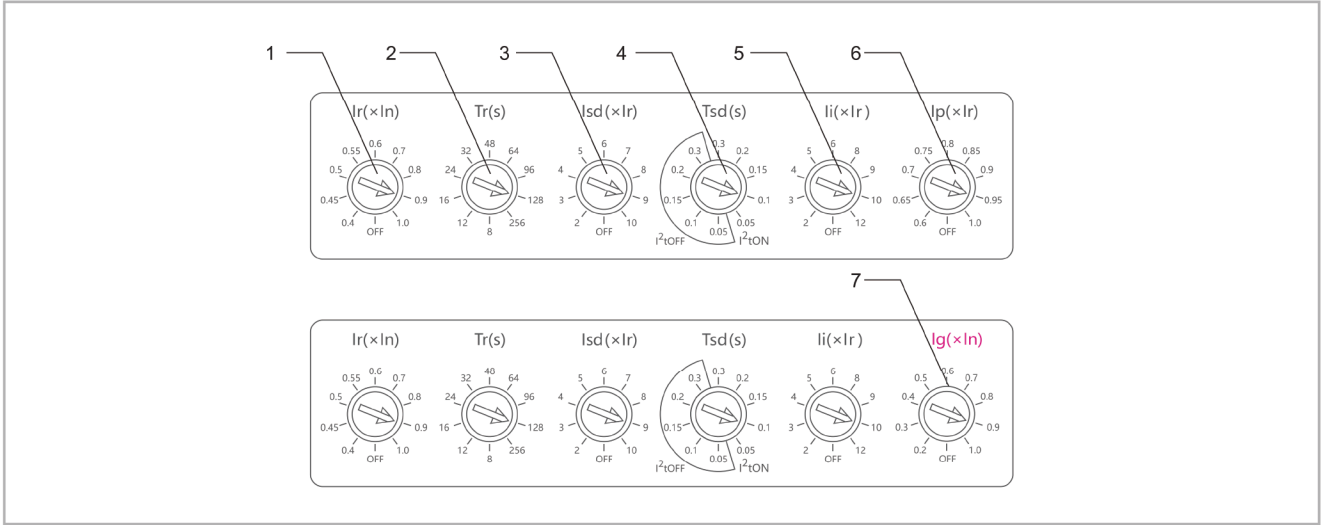
Model number		CQM6E-800			CQM6E-1250	
Rated current of frame level Inm(A)		800			1250	
Number of poles		3,4			3,4	
Rated current In(A),at 40°C,50°C,55°C		630 , 800			800 , 1000 , 1250	
Rated operating voltage Ue(V),AC 50/60Hz		400/415			400/415	
Rated insulation voltage Ui (V)		800			1000	
Rated impulse withstand voltage Uimp(KV)		8			12	
Breaking capacity designation		S	M	H	M	H
Short-circuit breaking capacity Icu/Ics(kA)		AC400/415V	35/25	50/35	70/50	50/35 75/55
Rated short-time withstand current Icw(kA),1s		AC400/415V	10	10	10	12.5 12.5
Selectivity category		B	B	B	B	B
Number of operating cycles (cycle)	ON	1000			1000	
	OFF	3000			3000	
Electronic decoupling (adjustable)	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	●	●	●	●	●
Overall dimensions (mm) (a-b-c-ca)		3 P	210×275×114×163			210×275×114×163
		4 P	280×275×114×163			280×275×114×163

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

Characteristic curve



Intlligent Release Adjustment Panel



1. Ir: Rated Current (Ir) Setting Dial
The setting dial for the rated current, applicable to 160-1250 frame sizes. The selectable settings on the front panel are: 0.4, 0.45, 0.5, 0.55, 0.6, 0.7, 0.8, 0.9, 1.0, OFF.
2. Tr: Long-Time Delay (Tr) Setting Dial
The setting dial for the overload long-time delay. When the current passing through the circuit breaker reaches 1.5 times Ir (×In), the breaker trips within the set time. The selectable settings are: 8s, 12s, 16s, 24s, 32s, 48s, 64s, 96s, 128s, 256s.
3. Isd: Short-Time Delay Current (Isd) Setting Dial
The setting dial for the short-time delay current multiplier. Selectable settings are: 2, 3, 4, 5, 6, 7, 8, 9, 10, OFF. When a short-circuit current equal to the set value (×Ir, ×In) passes through the breaker, it will trip after a time delay.
4. Tsd: Short-Time Delay Operating Time (Tsd) Setting Dial
The setting dial for the short-time delay operating time. It is divided into inverse-time protection (¹t ON) and definite-time protection (¹t OFF). Selectable settings are: 0.05s, 0.1s, 0.15s, 0.2s, 0.3s. When a short-circuit current equal to Isd passes through the breaker, it will trip within the set time.
5. li: Instantaneous Current (li) Setting Dial
The setting dial for the instantaneous current multiplier. Selectable settings are: 2, 3, 4, 5, 6, 8, 9, 10, 12. When a short-circuit current equal to the set value (×In) passes through the breaker, it will trip instantaneously.
6. lp: Pre-alarm Current (lp) Setting Dial
The setting dial for the pre-alarm current multiplier. Selectable settings are: 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 100%, OFF. When the current passing through the breaker reaches the set value (×Ir, ×In), the pre-alarm indicator light will illuminate.
7. Ig: Ground Fault Current (Ig) Setting Dial
The setting dial for the ground fault current multiplier. Selectable settings are: 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, OFF. When the ground fault current passing through the breaker reaches the set value (×In), the breaker will trip due to the ground fault.

Characteristics of Intelligent Release: It has protection functions such as overload long-delay inverse time, short-circuit short-delay inverse time, short-circuit short-delay fixed time, and short-circuit instantaneous action. These functions can be set by the user to form the required protection characteristics. The inverse time action characteristics of long-delay overcurrent protection are shown in the table:

Current		time of action	
power distribution	1.05Ir	>2h inoperative(In>63A),1h inoperative (In≤63A)	
	1.3r	<1h action	
	1.51r	Settling time tr(s)	Inm-125A、250A、400A、630A、800A、1250A 8、12、16、24、32、48、64、96、128、256

Remarks:Tolerance of operation value is ±10%,tolerance of operation time is ±15%.
Short delay overcurrent protection action characteristics

When Tsd is within the 1sttON stall range,it is a fixed time limit:

Current		time of action				
Isd≤6lr counter-time limit		1 ² T2=(6Xlr) ² Tsd				
Isd and ≥6lr Inverse time limit to fixed time limit	Consolidation time	0.05	0.1	0.15	0.2	0.3
	Inaccuracies	±0.02	±0.03	±0.04	±0.06	±0.08
	Returnable time	-	-	0.14	0.21	0.3

Remarks :1 is the actual passing current,T2 is the actual action time,Isd is the set short delay curent,Tsd is the set short delay action time

When Tsd is in the range of 1sttOFF gear,it is fixed time limit:

Current		time of action				
Isd Current Error±10%	Consolidation time	0.05	0.1	0.15	0.2	0.3
	Inaccuracies	±0.02	±0.03	±0.04	±0.06	±0.08
	Returnable time	-	-	0.14	0.21	0.3

Remarks:lis the actual passing current,T2 is the actual action time;Isd is the short delay curent,Tsd is the short delay actiontime.

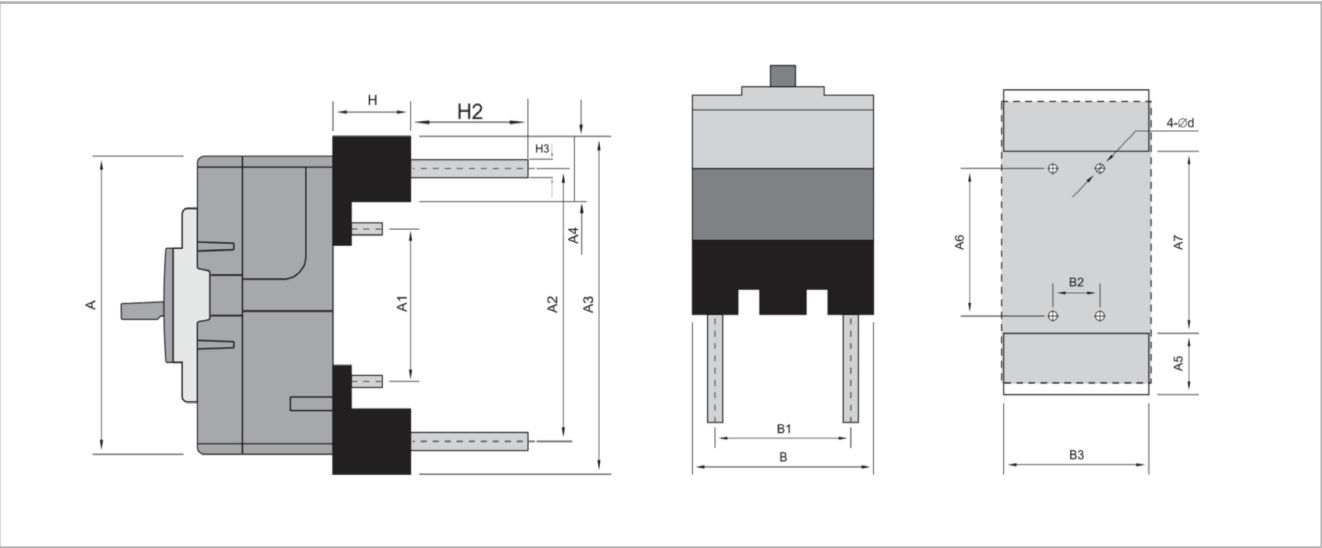
Short-circuit transient protection action characteristics

Current		li=(2,3,4,5,6,8,9,10,12)×1n	
Motion Characteristics	Operating current	Minimum operating current 0.9li Maximum inoperative current 1.1li	
	time of action	<0.1s	

Grounding protection operating characteristics

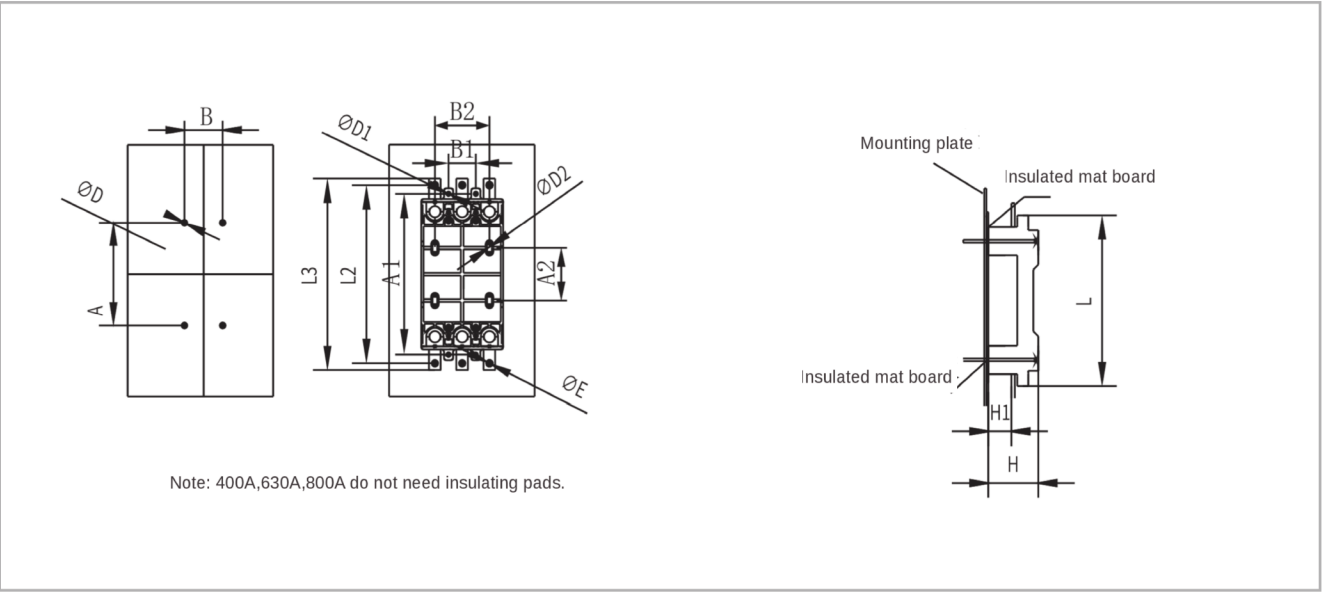
Current		Ig=(0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1.0)×1n	
Motion Characteristics	Ig≤0.9Ig Circuit breaker inoperative	Ig>1.1Ig	
	time of action	Tg=0.4(fixed time limit)	

Appearance and installation dimensions of the rear part for the plug-in type(on the panel)



Molded case circuit breaker	B-board rear wiring dimensions									C Front-of-Board Wring Dimensions			C Plug-in wiring size																
	A1	B	B1	H	H1	φd	φd1	φd2	φd3	A4	B4	A	A1	A2	A3	A4	A5	A6	A7	H	B	B1	B2	B3	φd	H2	H3		
125	25	114	111	62	87	6	14	5	5	25	111	130	58	115	132	17.5	20	58	97	28	75	50	50	77	5.5	15	10.5		
160	30	134	132	72	112	8	18	5	5	30	132	155	60	134	173	38	40	60	98	50	92	60	60	94	6.5	31	19.5		
250	35	144	126	87	126	12	24	5	5	35	126	165	54	144	184	45	47	54	95	50	107	70	70	109	6.5	35	21.5		
400	44	230	194	83	136	18	35	7	7	44	194	257	125	225	280	55	57	125	169	60	140	87	60	142	9	32	φ23		
630	44	230	194	83	136	18	35	7	7	44	194	257	125	225	280	55	57	125	169	60	140	87	60	142	9	32	φ23		
800	70	243	243	174	243	26	48	7	7	70	243	275	147	242	42	55	58	147	190	91	218	140	107	222	10.5	31	φ27		

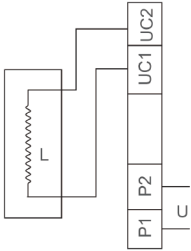
Appearance and installation dimensions of the rear part for the plug-in type(on the panel)



Model Number	A	E	L2	L3	D	E	H	H1	L	A1	B1	D1	A2	B2	D2
160	112	30	200	216	4.5	6.5	56	28	182	172	30	5.5	67	60	6.5
250	150	35	233	245	4.5	8.5	74	33	202	191	35	5.5	74	70	6.5
400	283	70	363	405	6.5	12.5	125	67	341	327	70	6.5	143	140	7
630	283	70	363	405	6.5	12.5	125	67	341	327	70	6.5	143	140	7
800	283	70	363	405	6.5	12.5	125	67	341	327	70	6.5	143	140	7

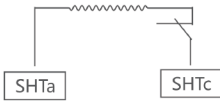
The internal accessories of CQM6E series include under-voltage detent,shunt detent,auxiliary alarm detent,its main technical parameters and wiring diagrams are as follows.

Under-voltage release device

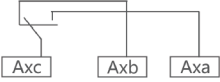
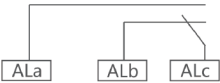
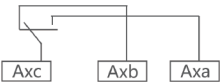


Internal accessories	
Rated voltage of the power supply	Main Performance
AC220,AC240 AC380,AC415	A. When the supply voltage drops to 70%and 35%of the rated voltage, the undervoltage detector shall operate. B. When the electro-hydraulic voltage is lower than 35%of the rated voltage,the undervoltage detractor should not be able to absorb,in order to prevent the circuit breaker from closing. C.When the power supply voltage is equal to or greater than 85% of the rated voltage,the undervoltage detractor will ensure the absorption, and ensure the reliable closing of the circuit breaker.

Shunt release device	
Rated supply voltage	Main Performance
DC24,DC110 AC220,AC3B0	The shunt release can operate reliably between 70%and 110%of the rated voltage value.



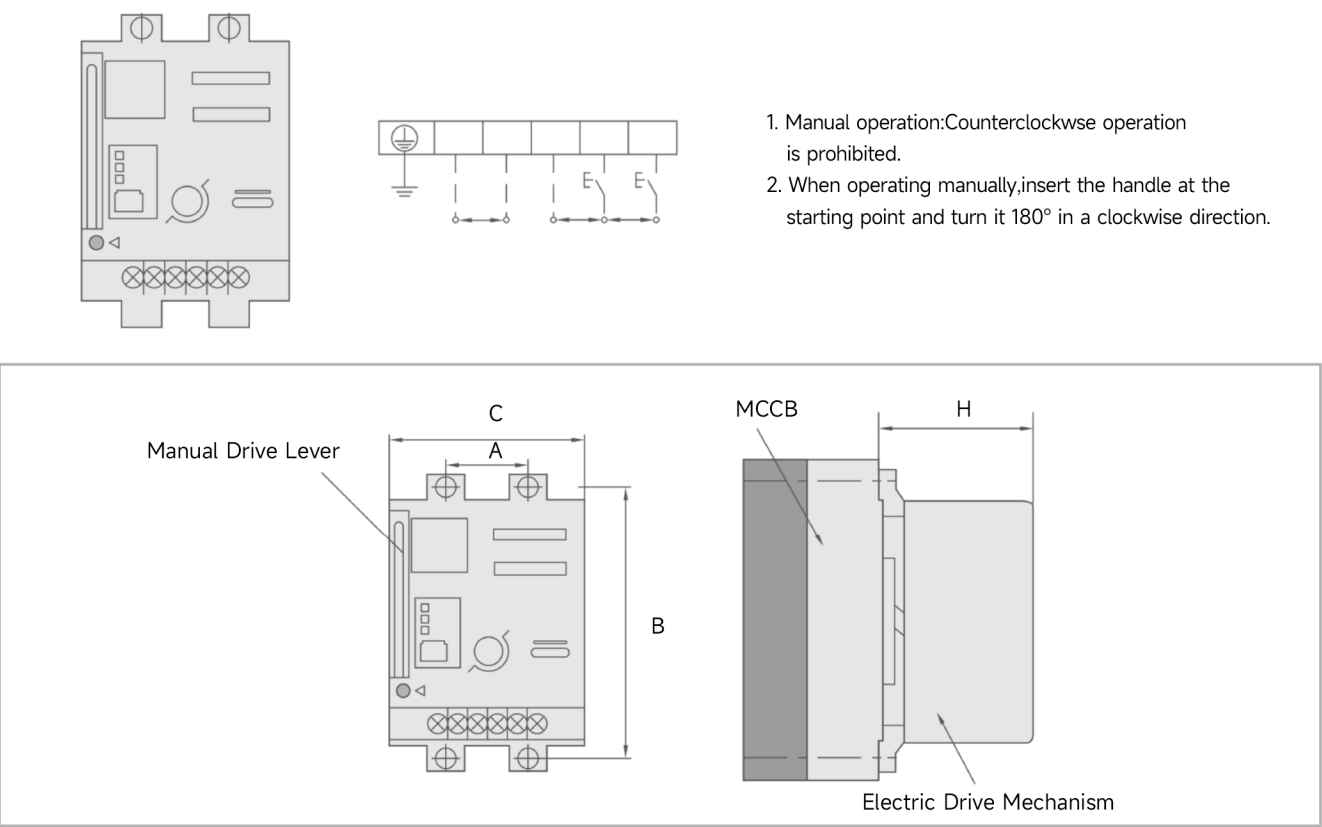
Auxiliary alarm contact	
Rated voltage of power supply	Main performance
Auxiliary switch AC 125V 5A,AC 250V 3A DC 125V 0.4A,DC 125V 0.2A	Provides differentiated signals for circuit breakers in the "closed" and "open"positions.
Alarm switch AC 125V 5A,AC 250V 3A DC 125V0.4A,DC 125V 0.2A	Provides signals to distinguish between "normal operation" and "fault free release" positions of circuit breakers.
Auxiliary alarm switch AC 125V 5A,AC 250V 3A DC 125V 0.4A,DC125V 0.2A	Provides signals to distinguish between "closed", "open" and "fault free release" positions of the circuit breaker.



External accessories

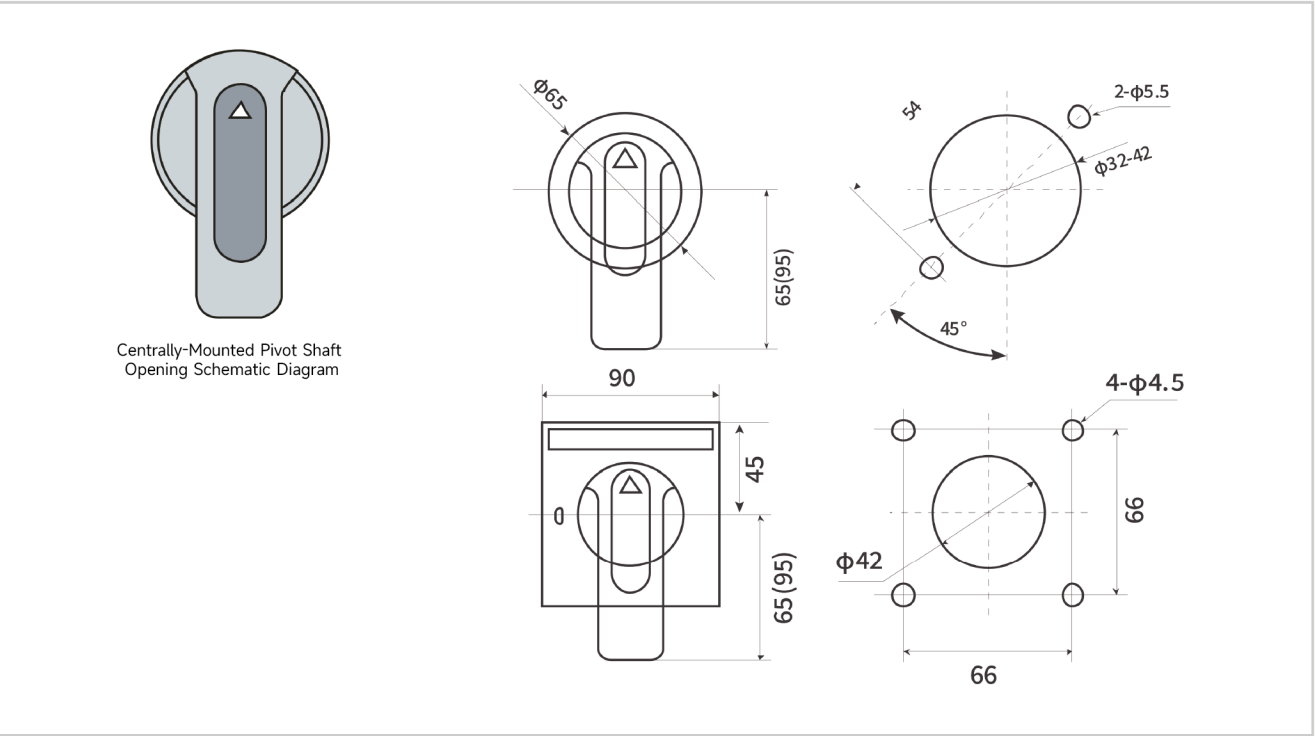
CD3 Electric Operation Mechanism
CD3 series electric operation mechanism is adopted advanced switching power supply technology,utilizing smallpermanent contact motordrive,small working current,suitable for 63-800A plastic case circuit breakers.

Model Number		CD3-125	CD3-160	CD3-250	CD3-400/630	DC3-800
Compatible Model		CQM6-125	CQM6-160 CQM6RT-160 CQM6R-160	CQM6E-250 CQM6-250 CQM6L-250 CQM6RT-250	CQM6-630 CQM6L-630 CQM6RT-630 CQM6E-630	CQM6-800 CQM6L-800 CQM6RT-800 CQM6E-800 CQM6L-1250 CQM6E-1250
Overall Dimensions	A	25	30	35	44	70
	B	117	132	126	194	243
	C	73	90	90	130	130
	H	98	98(89.5)	102(92)	152	153
Rated voltated V		AC-110-240, DC100-220,DC24				AC 230,DC 220 AC 100,DC 110
Starting current A		≤0.5				≤2
Mechanical life(times)		14000			10000	5000
Power(W)		14				35

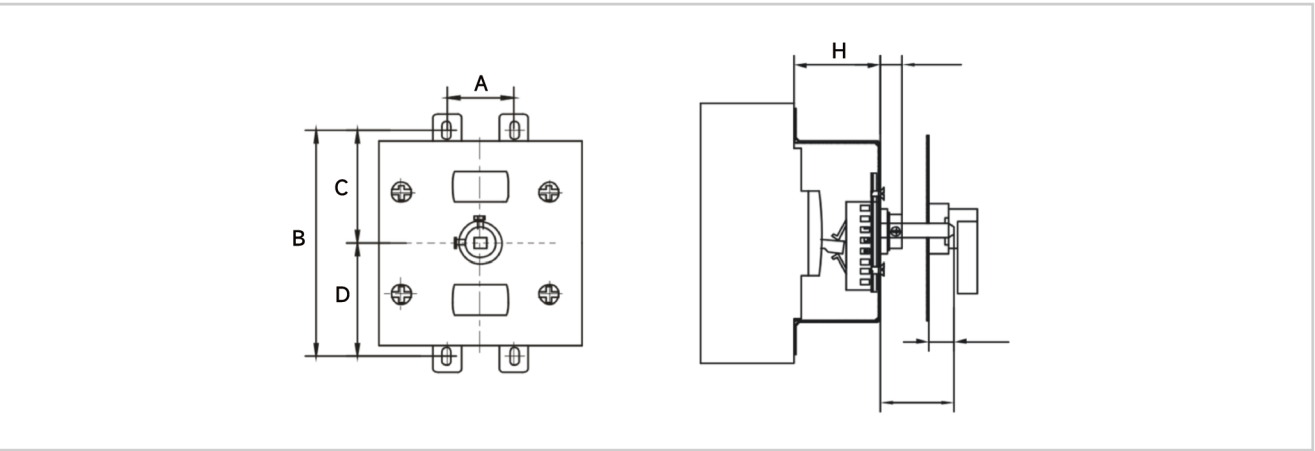


Manual operating mechanism

Shape of the circular handle and the door panel opening size (the distance from the center of the opening to the hinge should not be less than 200mm)



Outline and Installation Schematic Diagram of the Central Series Manual Operation Mechanism



Hand-operated mechanism model	A	B	C	D	H
160	30	132	66	66	46
250	35	126	63	63	51
400	128	194	97	97	76
630	128	194	97	97	76
800	198	243	121.5	121.5	76
1250	198	243	121.5	121.5	76