

PEMC Series

DC Molded Case
Circuit Breaker



PROJOY
electric

– Switch To Safety! –

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electric

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HIGH CRAFTSMANSHIP AND HIGH STANDARDS

Focus on details to achieve high-quality products



Small
Volume



Short circuit
Protection



Overload
Protection



Flame
Retardant



High Breaking
Capability



Arcing
Short



Complete
Accessories



Multiple
Wiring

Select Code

PEMC	-	250	/	2	3	X	Y	1500
↓		↓		↓	↓	↓	↓	↓
Projoy Electric Molded Case Circuit Breaker		Current 400A 630A 800A		Frame Current Poles 2P	3: Thermomagnetic 0: W/O Protection	Accessories code	Rated Current 225-800A	Rated Operating Voltage DC 1500V

Technical data

Standard	IEC/EN 60947-2		
Type	PEMC		
Shell Frame Current (A)	400	630	800
Rated Current I _n (A)	225-400	450-630	700-800
Number of Poles	2P		
Rated Operating Voltage U _e (V)	1500		
Rated Insulation Voltage U _i (V)	1500		
Rated Impulse Withstand Voltage U _{imp} (kV)	12		
Rated Ultimate Short-circuit Breaking Capacity I _{cu} (kA)	20		
Rated Service Short-circuit Breaking Capability I _{cs} (kA)	20		
Arc Distance (mm)	≤50		
Operational Performance (times)	Electrical Life	700	700
	Mechanical Life	10,000	5,000
Isolation Function	■		
Accessories	Shunt release	■	
	Alarm Contact	■	
	Auxiliary Contact	■	
Service Temperature	-35°C ~+70°C		
Altitude	≤5500m		
Class of Use	A		
Protection Level	IP20		
Pollution Level	3		
Interphase Spacer	■		
	W	124	
	H	250	
	D	165	
Certification	CE		

PEMC MCCB

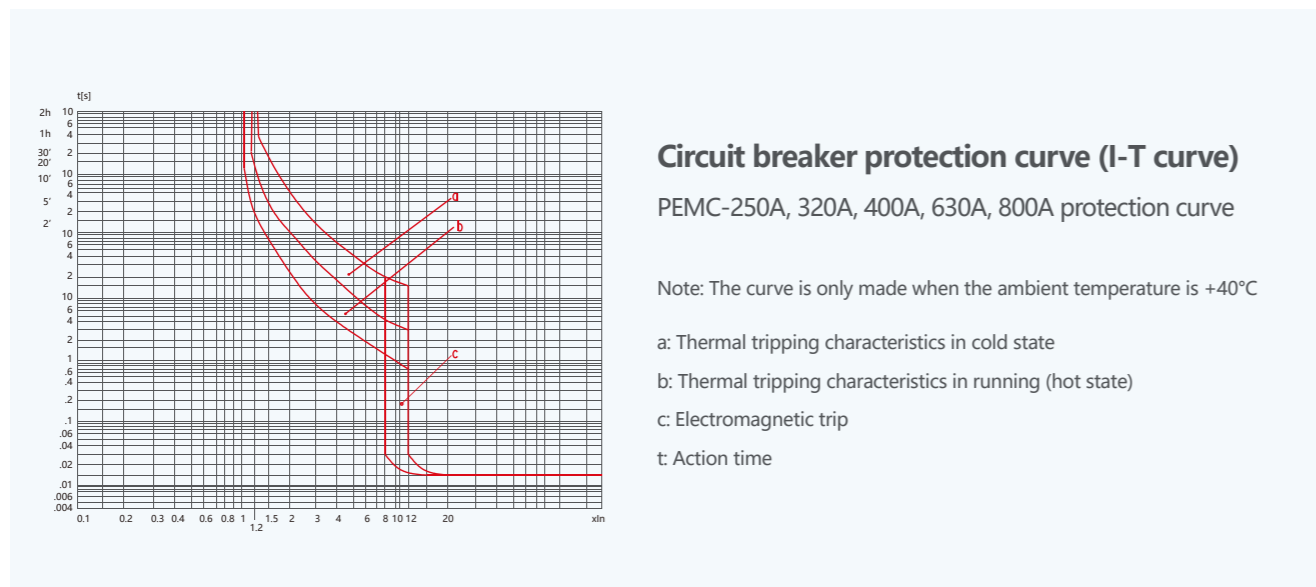
Temperature derating factor table

Product frame	Temperature derating factor table (operating current I _n)						
	40°C	45°C	50°C	55°C	60°C	65°C	70°C
PEMC-250	1.00	1.00	1.00	1.00	0.95	0.93	0.90
PEMC-320	1.00	1.00	1.00	0.94	0.92	0.90	0.88
PEMC-400	1.00	1.00	1.00	1.00	0.95	0.93	0.90
PEMC-630	1.00	1.00	1.00	0.96	0.94	0.92	0.90
PEMC-800	1.00	1.00	1.00	0.94	0.92	0.90	0.88

Altitude derating factor table

Product frame	Altitude derating factor table (operating current I _n)			
	2000m	3000m	4000m	5000m
PEMC-250	1.00	1.00	1.00	0.96
PEMC-320	1.00	0.97	0.94	0.90
PEMC-400	1.00	1.00	1.00	0.96
PEMC-630	1.00	1.00	0.96	0.94
PEMC-800	1.00	0.97	0.94	0.90

Tripping characteristics



Trip mode and accessory code

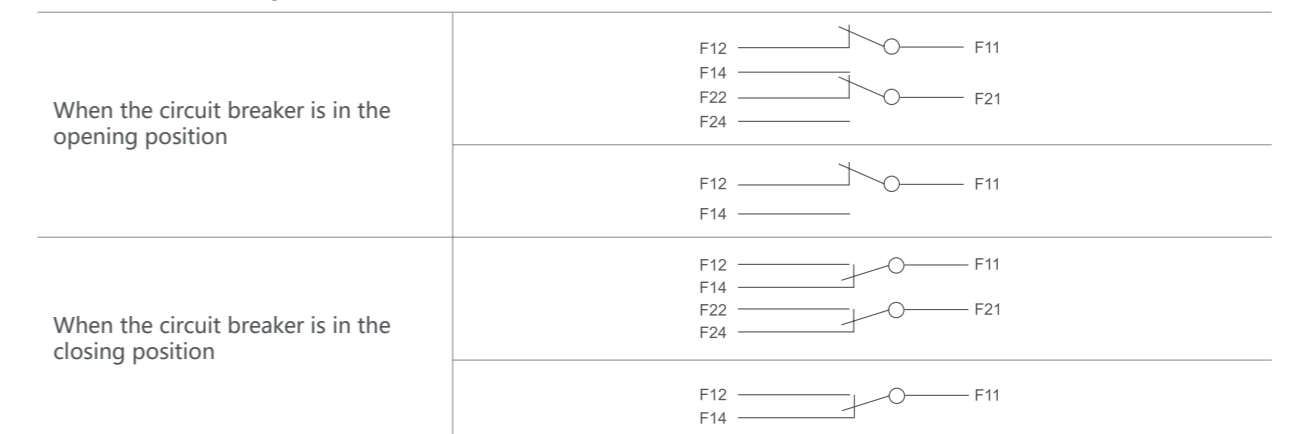
Accessory code	Accessories	PEMC-400/630/800
		2, 3poles
308	Alarm contact	
310	Shunt release	
320	Auxiliary contact(2NO2NC)	
330	Undervoltage release	
340	Shunt release+Auxiliary contact(2NO2NC)	
350	Shunt release+Undervoltage release	
360	Auxiliary contact(4NO4NC)	
370	Undervoltage release+Auxiliary contact(2NO2NC)	
318	Shunt release+Alarm contact	
328	Auxiliary contact(1NO1NC)+Alarm contact	
338	Undervoltage release+Alarm contact	
348	Shunt release+Auxiliary contact(2NO2NC)+Alarm contact	
368	Auxiliary contact(4NO4NC)+Alarm contact	
378	Auxiliary contact(2NO2NC)+Undervoltage release+Alarm contact	

Auxiliary contact

Contact capacity of auxiliary contact

Applicable frame current	Conventional thermal current	Rated working current at 400V
I _{nm} >400	6A	0:40A

Mode of auxiliary contact



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Alarm contact

Mode of Alarm contact

Alarm contact $U_e=220V$, $I_{th}=3A$	
When the circuit breaker is in the opening position	
When the circuit breaker is in the closing position	

Shunt release

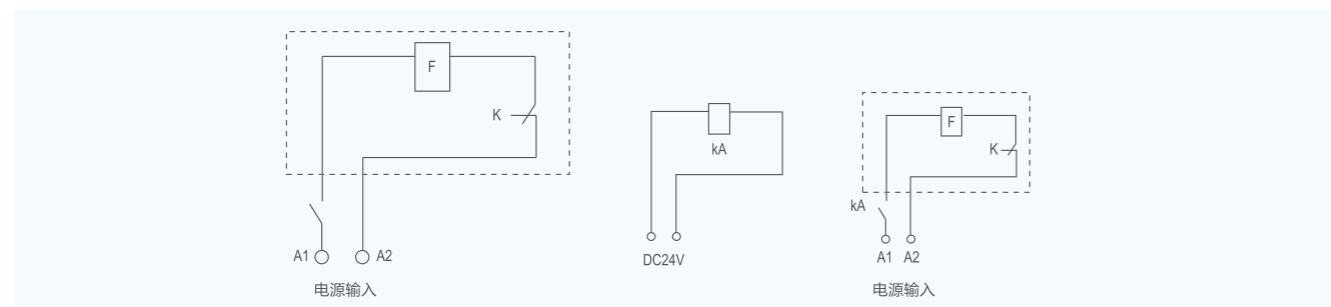
When the operating voltage is 70%~110%, the shunt release acts to make the circuit breaker trip reliably
Operation voltage: Regular model: AC 50Hz, 110V, 230V, 400V, DC 24V, 110V, 220V.

Note: When the operation voltage is DC24V, the following electrical diagram is recommended for circuit design.

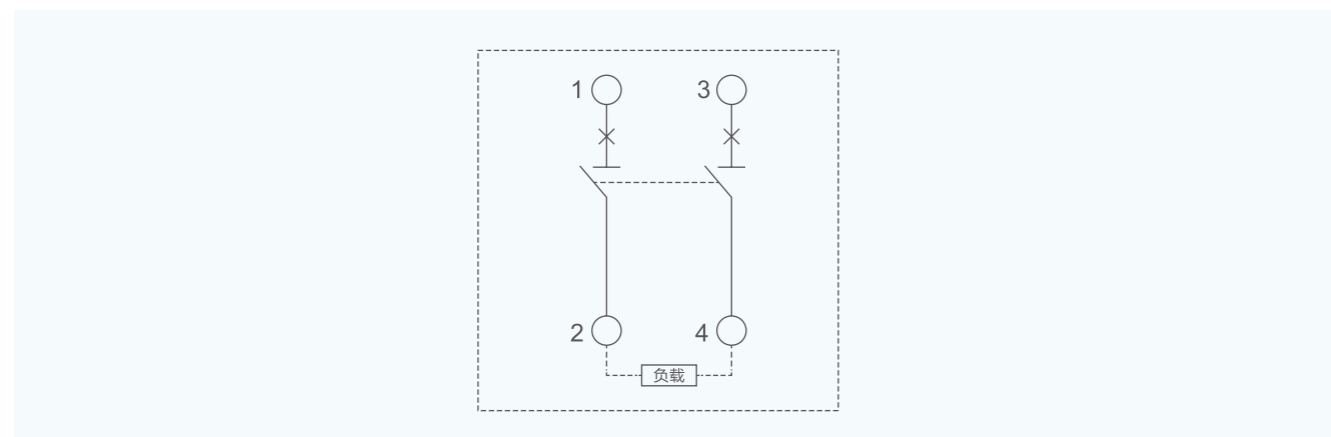
KA: DC24V intermediate relay, contact current capacity is 1A.

K: The microswitch in series with the coil inside the shunt release is a normally closed contact. When the circuit breaker is opened, the contact will automatically open, and when the circuit breaker is closed, the contact will close.

Wiring diagrams of shunt release



Wiring diagrams



Dimensions

PEMC-DC1500V 2P (400/630/800Frame)

