

24KV Vacuum Contactor 160A to 1250A

EVC8G series 24KV vacuum contactor are suitable for remote connection and disconnection, as well as frequent starting and control of AC motors, transformers, capacitor banks, and other devices in power networks with rated voltages of 24kV, and rated currents ranging from 160A to 1250A.

Usage Requirements:

- 1) Correctly select the technical parameters of the contactor, including ensuring that auxiliary switch contacts are not overloaded.
- 2) Sufficient insulation space should be maintained around and above the contactor to ensure safe operation.
- 3) If there is no response when the control power supply is turned on, immediately disconnect the control power supply and check the cause to avoid burning out the electromagnetic coil.
- 4) When the contactor is used to control inductive loads, it is recommended to use overvoltage protection devices such as R-C filters or varistors to protect the load.
- 5) The electromagnetic system generates strong magnetic attraction during operation, so care should be taken to prevent ferromagnetic materials from being drawn into the contactor.
- 6) Contactors are not suitable for series and parallel operation.
- 7) The connection principle of the main circuit is as follows: The upper end (static end) is the incoming line, and the lower end (dynamic end) is the outgoing line.



Environmental Conditions:

- 1) Ambient temperature: -25°C to 40°C .
- 2) Installation location altitude: Not exceeding 2000m. Also can be used in 12kV at altitude not exceeding 5000m.
- 3) Relative humidity of the air: The maximum average relative humidity of the wettest month is 90%, with a minimum average temperature of 25°C , considering condensation occurring on the product surface due to temperature changes.
- 4) Environment: Suitable for use in locations without water ingress, corrosive or flammable gases, and severe vibrations.

Technical Parameters:

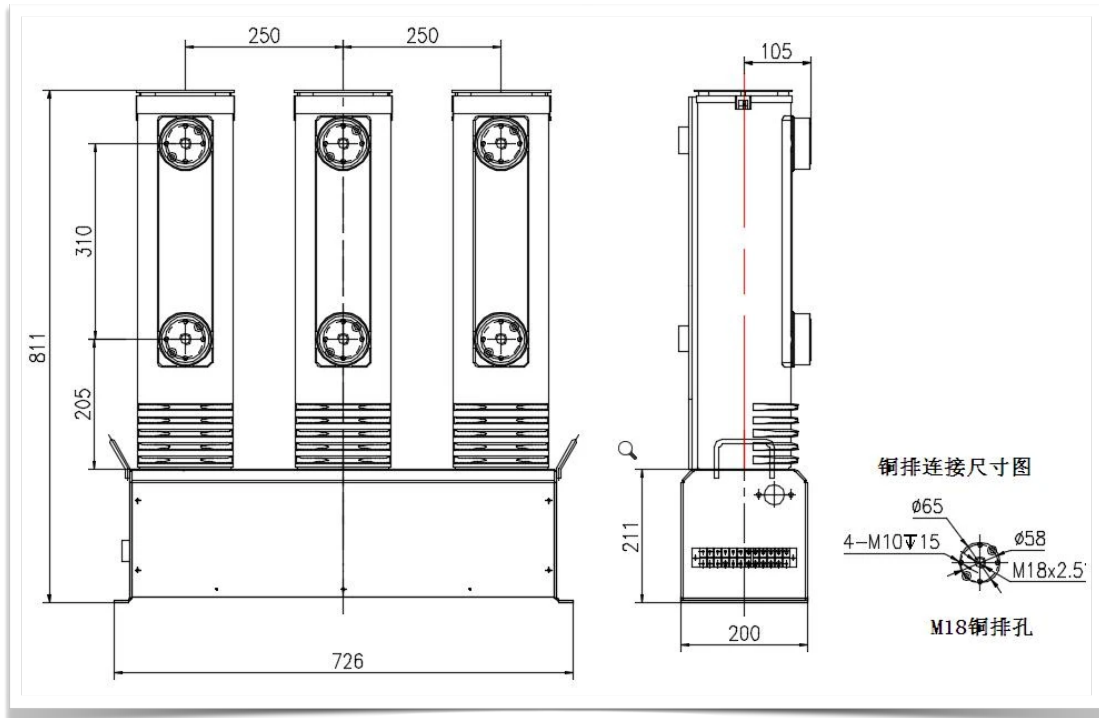
- 1) Number of poles in the main circuit: Single pole and three pole.
- 2) Control power supply voltage: AC/DC 220V or 380V or according to user requirements.
- 3) The rated heating current of the auxiliary switch contacts is specified as 5A.



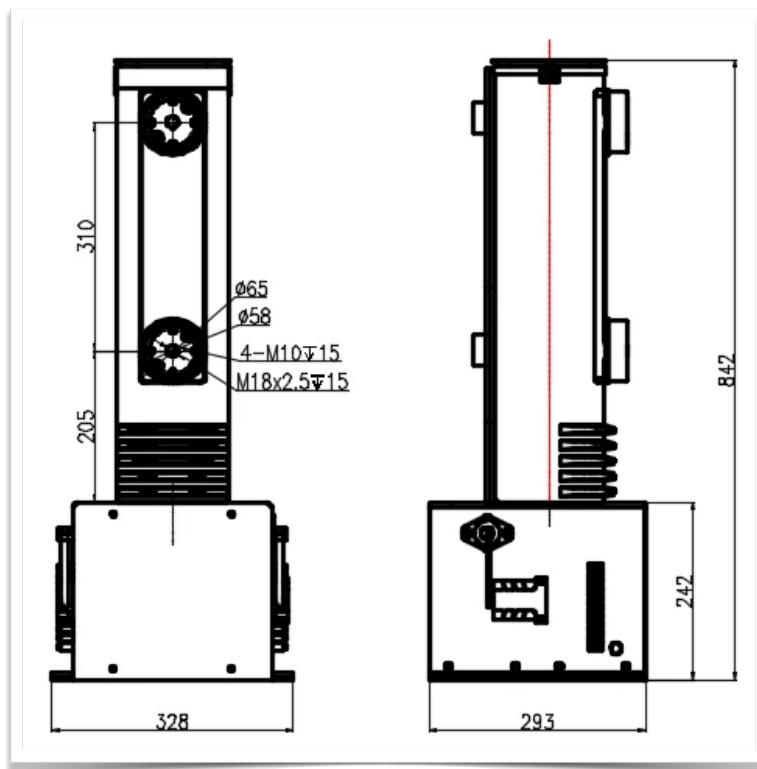
Single Pole Model	EVC8G- SP160A/ 24KV	EVC8G- SP250A/ 24KV	EVC8G- SP400A/ 24KV	EVC8G- SP630A/ 24KV	EVC8G- SP800A/ 24KV	EVC8G- SP1000A/ 24KV	EVC8G- SP1250A/ 24KV
Three Pole Model	EVC8G- TP160A/ 24KV	EVC8G- TP250A/ 24KV	EVC8G- TP400A/ 24KV	EVC8G- TP630A/ 24KV	EVC8G- TP800A/ 24KV	EVC8G- TP1000A/ 24KV	EVC8G- TP1250A/ 24KV
Rated voltage of the main circuit (kV)	24	24	24	24	24	24	24
Rated current of the main circuit (A)	160	250	400	630	800	1000	1250
Closing capacity of the main circuit (A/100 times)	1600	2500	4000	6300	8000	8000	10000
Switching capacity of the main circuit (A/25 times)	1280	2000	3200	5000	6300	6300	8000
Breaking capacity limit (A/3 times)	3200	4000	4500	6300	6300	8000	10000
Mechanical life (ten thousand times)	100	100	100	100	100	100	100
Mechanical lock life (ten thousand times)	10	10	10	10	10	10	10
Electrical life (AC3) (ten thousand times)	25	25	25	25	25	25	25
Electrical life (AC4) (ten thousand times)	10	10	10	10	10	10	10
Power frequency withstand voltage of the main circuit (interrupted) (kV)	65	65	65	65	65	65	65
Phase-phase, phase-ground power frequency withstand voltage (kV)	60	60	60	60	60	60	60
Power frequency withstand voltage of the control circuit (kV)	2.5	2.5	2.5	2.5	2.5	300	300
Rated operating frequency (times/hour)	300	300	300	300	300	120	120
Mechanical lock operation frequency (times/hour)	120	120	120	120	120	>180	>200
Terminal pressure (N)	>100	>100	>150	>150	>150	10±1	10±1
Contact opening distance (mm)	10±1	10±1	10±1	10±1	10±1	1.5±0.5	1.5±0.5
Overtravel (mm)	1.5±0.5	1.5±0.5	1.5±0.5	1.5±0.5	1.5±0.5	≤100	≤100
Contact resistance of the main circuit (μΩ)	≤200	≤200	≤150	≤100	≤100	≤100	≤100

Dimensions

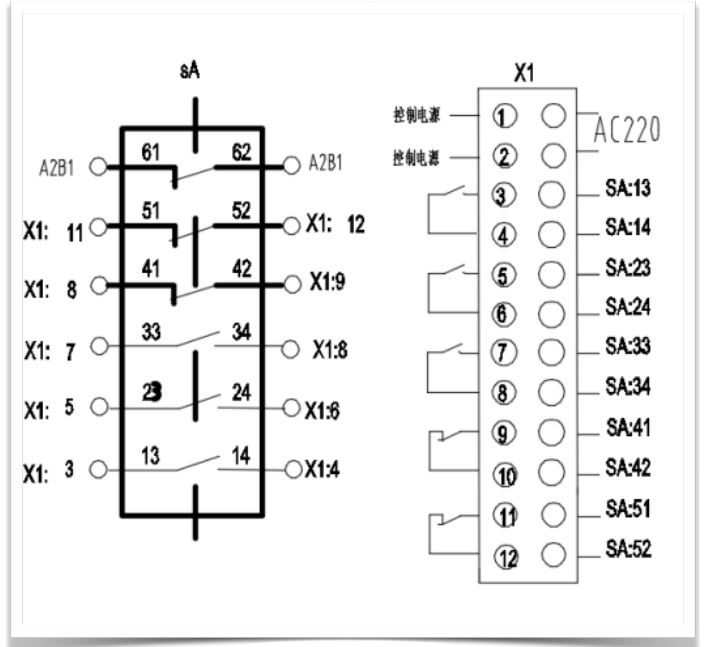
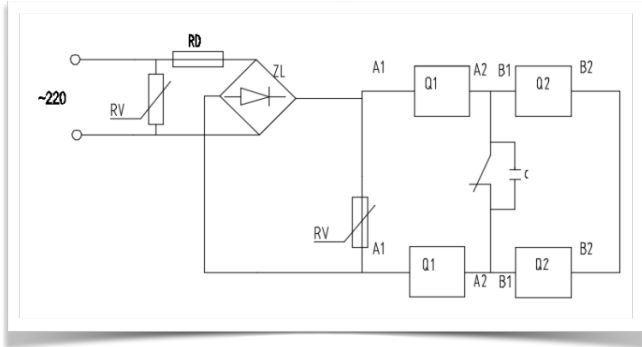
Three pole 24KV Vacuum contactor



Single pole 24KV Vacuum Contactor



24KV Series Electric Holding Secondary Circuit Schematic Diagram (AC220V)



24KV Series Electric Holding Secondary Circuit Schematic Diagram (DC220V)

