

Combined Reactive Power Compensator SFR-SVGM Cabinet

Overview

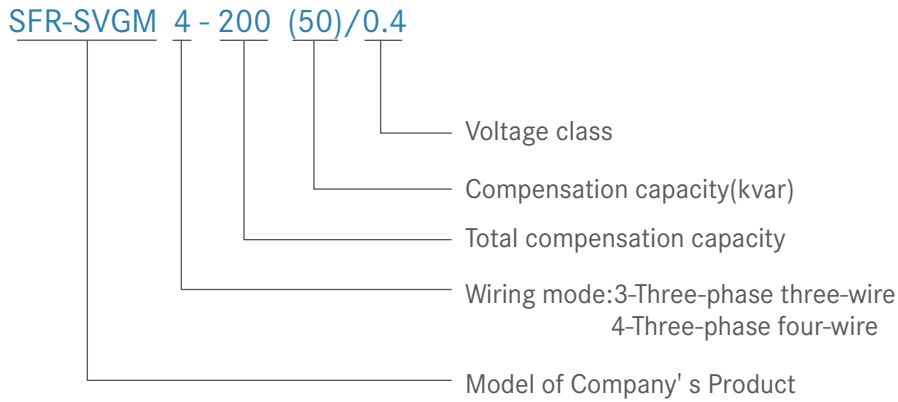
SFR-SVGM is the combination of a SFR-SVG static reactive power compensation module and SFR-M harmonic suppression compensation module in a cabinet for accurate continuous compensation.



Advantages

- Intelligent operation: Full response time less than 10ms, fully modular design, flexible combination
- Intelligent and flexible: The intelligent monitoring module can automatically adjust the output ratio of the SVG/passive module according to the dynamic requirements of the system, and at the same time meet the compensation
- Flexible smoothing: Completely linear, dynamic output, smooth and stable, the power factor is always maintained at 0.99, neither overcompensating nor undercompensating
- Self-diagnosis: Comprehensively monitor the real-time status of the capacitor to avoid the capacitor "working with disease" to extend the service life

Model Description



Model Selection

Table of Rapid Model Checking of SVG M

Transformer capacity (KVA)	Capacity of SVG M	Quantity	Recommended cabinet size
200	SFR-SVGM4-100(50)/0.4	1	800 × 800 × 2200
250/315	SFR-SVGM4-100(50)/0.4	1	800 × 800 × 2200
400	SFR-SVGM4-150(50)/0.4	1	800 × 800 × 2200
500/630	SFR-SVGM4-200(50)/0.4	1	800 × 800 × 2200
800	SFR-SVGM4-250(50)/0.4	1	1000 × 800 × 2200
1000	SFR-SVGM4-300(50)/0.4	1	1000 × 1000 × 2200
1250	SFR-SVGM4-375(50)/0.4	1	1000 × 1000 × 2200
1600	SFR-SVGM4-250(50)/0.4	2	1000 × 800 × 2200
2000	SFR-SVGM4-300(50)/0.4	2	1000 × 1000 × 2200
2500	SFR-SVGM4-375(50)/0.4	2	1000 × 1000 × 2200

Note: Types M, B and G can be selected according to field situation.

 Technical Parameter

Item	Parameter	
Single Cabinet Compensation Capacity	100 ~ 400kvar	
AC Input	Rated Voltage	400×(1±20%)
	Rated Frequency	50Hz±10%
	Wiring Method	Three phase four wire
Technical Indicators	Target Power Factor	0.99
	Split-phase Compensation Capacity	30 ~ 100%
	Harmonic Compensation Times	Specific times
	Response Time	≤10ms
	Overload Protection	Automatic adjustment
Working Mode	Automatic or manual	
Communication Interface	RS485 / Ethernet optional	
Protection Level	IP20	
Display Interface	7 / 10 inch touch screen (optional)	
Altitude Requirement	≤1000m, high altitude projects can be customized	
Parallel Operation	Available	
Cooling Method	Forced air cooling	
Operating Environment Temperature	-25℃ ~ 45℃	
Storage/transport Environment	-40℃ ~ 70℃	
Working/storage Relative Humidity	Relative humidity 20%~95%, no condensation/ relative humidity 10%~95%, no condensation	
Single Cabinet Dimension	1000×1000×2200	
Noise	<65dB(A)	
Other	Non-standard sizes can be customized, special requirements can contact SFERE	
SFR-M Module	Capacity: 10 ~ 50kvar optional	
	Reactance rate: 7% and 14% optional	