Product Overview

The GGJ low-voltage intelligent reactive power compensation cabinet is specially designed for the actual situation of the power grid. It adopts intelligent control technology, which effectively solves the problem of automatic switching of parallel capacitors for reactive power compensation under harmonic conditions. On the other hand, it can filter out harmonics according to users' actual requirements, clean the power grid environment, reduce losses, and eliminate harmonic hazards; And provide capacitive reactive power to the system to improve power factor. Can be used in power distribution systems for industries such as electricity, metallurgy, petrochemicals, industrial and mining enterprises, construction, and machinery

产品型号说明

GGJ □ - □ / □ □

① ② ③ ④ ⑤

①	低压智能无功补偿柜
②	额定电压 (KV)
③	额定电流 (A)
④	谐波支路 (3、5、7、11)
⑤	J: 静态 D：动态

Usage conditions

Altitude: 2000 meters
Environmental temperature: -25～+40 ℃
Relative humidity: not exceeding 90% (20 ℃)
The installation site is free of flammable and explosive materials, corrosive gases, and conductive dust
There is no severe vibration or turbulence, and the installation inclination is not greater than 5 degrees
Note: If ordering this product exceeds the above conditions, please consult with our company

Structure Introduction

Voltage zero crossing switching compensation device, achieving no inrush current, no impact, and can frequently and quickly switch capacitors
Fast response speed, fast tracking of reactive power changes in system load, real-time dynamic or static response switching
Adopting automatic/manual switching devices for capacitors, which can be operated frequently and improve compensation accuracy
The top of the cabinet is equipped with a cooling fan, which is controlled by a temperature control switch to adjust the temperature inside the cabinet in a timely manner
Complete protection functions: including short circuit, overload, overvoltage, undervoltage, and phase loss protection, easy to set

Technical Parameters

Rated voltage: 400V, 660V, 1000V
Rated frequency: 50Hz
Rated capacity: 30-1000var
Operating voltage range: 0.8-1.1Un
Capacitor wiring method: Y or △
Measurement error: Voltage: ± 0.5%, Current: ± 1%, Reactive power: ± 1%
Switching mode: automatic switching based on harmonic voltage or power factor
Switching delay: adjustable from 0-999s

电动机就地补偿计算及确定所需的电容电量												
	补偿前	为获得所需 COSΦ2 每千瓦负荷所需电容器千乏数										
tanΦ1	cosΦ1	cosΦ2 =0.7	cosΦ2 =0.75	cosΦ2 =0.8	cosΦ2 =0.82	cosΦ2 =0.85	cosΦ2 =0.87	cosΦ2 =0.9	cosΦ2 =0.92	cosΦ2 =0.95	cosΦ2 =0.97	cosΦ2 =1.00
4.9	0.2	3.88	4.02	4.15	4.2	4.28	4.33	4.41	4.47	4.57	4.65	4.9
3.87	0.25	2.85	2.99	3.12	3.17	3.25	3.31	3.39	3.45	3.54	3.62	3.87
3.18	0.3	2.16	2.3	2.43	2.48	2.56	2.61	2.7	2.75	2.85	2.93	3.18
2.68	0.35	1.66	1.79	1.93	1.98	2.06	2.11	2.19	2.25	2.35	2.43	2.68
2.29	0.4	1.27	1.41	1.54	1.59	1.67	1.72	1.81	1.87	1.96	2.04	2.29
2.16	0.42	1.14	1.28	1.41	1.46	1.54	1.59	1.68	1.74	1.83	1.91	2.16
2.04	0.44	1.02	1.16	1.29	134	1.42	1.47	1.56	1.62	1.71	1.79	2.04
1.93	0.46	0.91	1.05	1.18	1.23	1.31	1.36	1.45	1.5	1.6	1.68	1.93
1.83	0.48	0.81	0.95	1.08	1.13	1.21	1.26	1.34	1.4	1.5	1.58	1.83
1.73	0.5	0.71	0.85	0.98	1.03	1.11	1.17	1.25	1.31	1.4	1.48	1.73
1.64	0.52	0.62	0.76	0.89	0.94	1.02	1.08	1.16	1.22	1.31	1.39	1.64
1.56	0.54	0.54	0.68	0.81	0.86	0.94	0.99	1.07	1.13	1.23	1.31	1.56
1.48	0.56	0.46	0.6	0.73	0.78	0.86	0.91	1	1.05	1.15	1.23	1.48
1.4	0.58	0.38	0.52	0.65	0.71	0.78	0.84	0.92	0.98	1.08	1.15	1.4
1.33	0.6	0.31	0.45	0.58	0.64	0.71	0.77	0.85	0.91	1	1.08	1.33
1.27	0.62	0.25	0.38	0.52	0.57	0.65	0.7	0.78	0.84	0.94	1.01	1.27
1.2	0.64	0.18	0.32	0.45	0.5	0.58	0.63	0.72	0.77	0.87	0.95	1.2
1.14	0.66	0.12	0.26	0.39	0.44	0.85	0.57	0.65	0.71	0.81	0.89	1.14
1.08	0.68	0.06	0.2	0.33	0.38	0.46	0.51	0.59	0.65	0.75	0.83	1.08
1.02	0.7		0.14	0.27	0.32	0.4	0.45	0.54	0.59	0.69	0.77	1.02
0.96	0.72		0.08	0.21	0.27	0.34	0.4	0.48	0.54	0.63	0.71	0.96
0.91	0.74		0.03	0.16	0.21	0.29	0.34	0.42	0.48	0.58	0.66	0.91
0.86	0.76			0.11	0.16	0.24	0.29	0.37	0.43	0.53	0.6	0.86
0.8	0.78			0.05	0.1	0.18	0.24	0.32	0.38	0.47	0.55	0.8
0.75	0.8				0.05	0.13	0.18	0.27	0.32	0.42	0.5	0.75
0.7	0.82					0.08	0.13	0.21	0.27	0.37	0.45	0.7
0.65	0.84					0.03	0.08	0.16	0.22	0.32	0.4	0.65
0.59	0.86						0.03	0.11	0.17	0.26	0.34	0.59
0.84	0.88							0.06	0.11	0.21	0.29	0.54
0.48	0.9								0.06	0.16	0.23	0.48
0.48	0.92									0.1	0.18	0.43
0.36	0.94									0.03	0.11	0.36
0.29	0.96										0.01	0.29
0.2	0.98											0.2

常用配置表

方案一：共补选配

电容接触器	电容投切复合开关	自愈式并联电容器
CJ19-25	XXFK- △ -16kVA	BSMJ0.4-1-3
CJ19-25	XXFK- △ -16kVA	BSMJ0.4-2-3
CJ19-25	XXFK- △ -16kVA	BSMJ0.4-3-3
CJ19-25	XXFK- △ -16kVA	BSMJ0.4-5-3
CJ19-25	XXFK- △ -16kVA	BSMJ0.4-6-3
CJ19-25	XXFK- △ -16kVA	BSMJ0.4-7.5-3
CJ19-25	XXFK- △ -16kVA	BSMJ0.4-8-3
CJ19-25	XXFK- △ -16kVA	BSMJ0.4-10-3
CJ19-25	XXFK- △ -16kVA	BSMJ0.4-12-3
CJ19-32	XXFK- △ -16kVA	BSMJ0.4-14-3
CJ19-32	XXFK- △ -16kVA	BSMJ0.4-15-3
CJ19-32	XXFK- △ -16kVA	BSMJ0.4-16-3
CJ19-43	XXFK- △ -20kVA	BSMJ0.4-18-3
CJ19-43	XXFK- △ -20kVA	BSMJ0.4-20-3
CJ19-63	XXFK- △ -30kVA	BSMJ0.4-25-3
CJ19-63	XXFK- △ -30kVA	BSMJ0.4-30-3
CJ19-95		BSMJ0.4-40-3
CJ19-95		BSMJ0.4-50-3

方案二：分补选配

电容接触器	电容投切复合开关	自愈式并联电容器
CJ19-25	XXFK-Y-7.5kVAX3	BSMJ0.25-1-3Y
CJ19-25	XXFK-Y-7.5kVAX3	BSMJ0.25-2-3Y
CJ19-25	XXFK-Y-7.5kVAX3	BSMJ0.25-3-3Y
CJ19-25	XXFK-Y-7.5kVAX3	BSMJ0.25-4-3Y
CJ19-25	XXFK-Y-7.5kVAX3	BSMJ0.25-5-3Y
CJ19-25	XXFK-Y-7.5kVAX3	BSMJ0.25-6-3Y
CJ19-25	XXFK-Y-7.5kVAX3	BSMJ0.25-7-3Y
CJ19-25	XXFK-Y-10kVAX3	BSMJ0.25-8-3Y
CJ19-25	XXFK-Y-10kVAX3	BSMJ0.25-10-3Y
CJ19-25	XXFK-Y-12kVAX3	BSMJ0.25-12-3Y

参考方案