



Ingenis系列低压动态无功补偿装置三相及分相补偿配置方案
Ingenis series of low-voltage dynamic reactive power compensation device configured three-phase and split-phase compensation scheme

装置容量 (kVar)		60	95	110	135	160	215	240	295	345	
一次系统图 (A system diagram)											
主要元器件 Main components	器件名称 Device Name	型号 Model	规格/数量 Specification / Amount								
	主开关 Main switch		160A/1	250A/1	300A/1	400A/1	400A/1	630A/1	630A/1	800A/1	1000A/1
	电流互感器 Current Transformer		200:5/3	300:5/3	300:5/3	400:5/3	400:5/3	600:5/3	600:5/3	800:5/3	1000:5/3
	控制器 Controller	CVT-18	1	1	1	1	1	1	1	1	1
	分相补偿模块 Split-phase compensation module	MIT	10/1+20/1	15/1+30/1	30/2	30/2	30/2	30/3	30/3	30/4	30/4
	三相补偿模块 Three-phase compensation module	MIT	30/1	25/2	25/2	25/1+50/1	25/2+50/1	25/1+50/2	25/2+50/2	25/1+50/3	25/1+50/4
	电流表 Ammeter		3	3	3	3	3	3	3	3	3
	电压表 Voltmeter		1	1	1	1	1	1	1	1	1
柜体 (最小尺寸) Power Factor Meter (Minimum size)	柜宽×柜深 (WxD)	600×600	600×800	600×800	600×800	600×800	800×800	800×800	800×1000	800×1000	
	数量 Amount	1	1	1	1	1	1	1	1	1	

其他容量和尺寸产品可要求定制
Capacity and size of other products can be customized

Senergy系列低压滤波无功补偿装置

Senergy series of low-voltage reactive power compensation device filter

适用范围

配电网中存在以下非线性用电设备场合：

- 照明控制系统 (亮度调节)
- 开关电源 (计算机, 办公自动化设备, 家用电器)
- 电动机调速设备
- 自感饱和铁芯
- 不间断电源
- 整流器
- 电焊设备
- 电弧炉
- 数控机床 (CNC)
- 电子控制机构
- EDM机械

仅考虑导致设备故障的根源就在发生故障现场的用工厂内可能是错误的。故障也可能是由于相邻工厂产生的谐波影响到公用配电网而产生的。

工作原理

Senergy系列低压滤波无功补偿装置由CVT-18系列测控装置、MST/MSK系列滤波补偿模块、母线系统、保护系统、机柜等组成。测控单元测量出无功功率, 依据预先设置好的参数, MST滤波补偿模块通过HKT无触点快速无涌流投切装置进行不等步自动投切, 精确实施三相及分相无功补偿; MSK滤波补偿模块通过投切模块进行不等步自动投切, 精确实施三相无功补偿。由于电抗器的接入, 防止了系统的振荡, 同时根据有目的的设计, 吸收了大量的谐波分量。

Scope

- Distribution of nonlinear electrical equipment in the following situations exist:
- Lighting control system (brightness adjustment)
 - Switching power supplies (computers, office automation equipment, household appliances)
 - The motor speed control equipment
 - Saturated core inductance
 - Uninterruptible power supply
 - Rectifier
 - Welding equipment
 - Electric arc furnace
 - Numerical control machine (CNC)
 - Electronic control mechanism
 - EDM machine

Only consider the root causes of equipment failure led to the failure of the field in power plant may be wrong. Failure may be due to harmonics generated by neighboring plants to the public distribution network effects arise.

Working Principle

Senergy series of low-voltage reactive power compensation device filter from the CVT-18 series of monitoring devices, MST / MSK series filter compensation module, bus systems, protection systems, cabinets and other components. Control unit to measure the reactive power, according to pre-set parameters that, MST filter compensation module has HKT no contacts immediately and seamlessly switching surge range devices automatically switching step, precise implementation and Fen-phase three-phase reactive power compensation; MSK filter compensation module through switching module by module, automatically switching range, accurate implementation of the three-phase reactive power compensation. As the reactor access, to prevent the system oscillation, but also with a purpose designed to absorb a large number of harmonic components.