自耦变压器(BYSC) Auto-transformer

■ 产品概述(Product Introduction)

自耦变压器用于交流50Hz额定电压380V,功率11～315(kW)三相鼠笼感应电动机的不频繁降压启动，以改善电动机启动时对输电网络的影响。

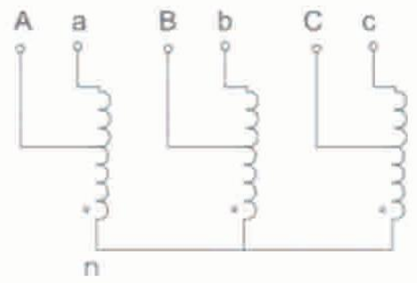
Auto-transformer is used for infrequent step-down starting of AC 50Hz rated voltage 380V power 11~315 (kW) three-phase squirrel cage induction motor to improve the impact on the power transmission network when the motor is started.

■ 产品特点 (Product Feature)

采用F、H级绝缘系统，在自耦变压器的整个使用寿命期都保持极佳的电气性能和机械性能。F、H级材料不易老化，耐收缩和抗压缩，因此可以确保变压器使用数年后仍保持结构紧密，并能够承受短路的压力。自耦变压器整体由H级浸渍漆在真空压力下浸渍(VPI)，然后再在烘箱里高温固化。

Adopt F and H class insulation system to maintain excellent electrical and mechanical properties throughout the service life of the auto-transformer. F, H class materials are not easy to age, resistant to shrinkage and compression, so they can ensure that the transformer remains structurally tight after several years of use and can withstand the pressure of short circuits. The entire auto-transformer is impregnated with H-class impregnating paint under vacuum pressure (VPI), and then cured at high temperature in an oven.

典型电路图
Typical Circuit Diagram



■ 技术规格 (Technical Specification)

功率范围 Power Range:	160-800kVA
输入电压 Input Voltage	Rated Input Voltage≤ 1000V ± 10% Δ/Y
输出电压 Output Voltage	Rated Output Voltage < 1000V+5%(no Load) Δ/Y
效率 Efficiency	≥95%
波形失真 Waveform Distortion	No additional waveform distortion
功能 Function	With input voltage, output voltage, current indication
保护 Protect	Overcurrent protection
绝缘电阻 Insulation Resistance	1000VDC, ≥100MΩ
电气强度 Dielectric strength	Core-winding, winding-winding 3000VAC/50H/60s no electric arc or electric breakdown
过载能力 Max Current	2 x rated current, 60s

海拔高度不超过2000米°CP. 相对湿度不超过90%. 周围无有害气体，无易燃易爆物品
周围环境应有良好的通风条件，如装在柜内，应加装通风设备

Work under 2000m
Ambient temperature -25 ~ +45°C, relatively humidity not over 90%
No hazardous gas,no flammable and explosive
With well-ventilated condition. Ventilation devices shall be mounted if transformers are installed in cabinets

■ 执行标准(Applicable Standard)

VDE0550、IEC439、JB5555、GB5226