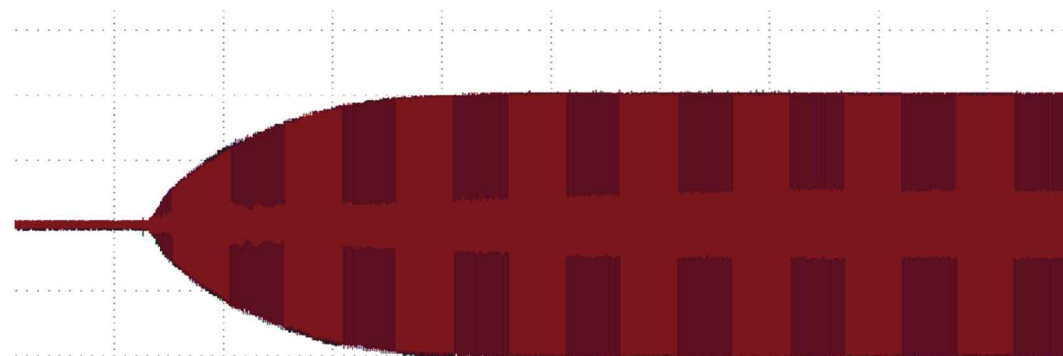


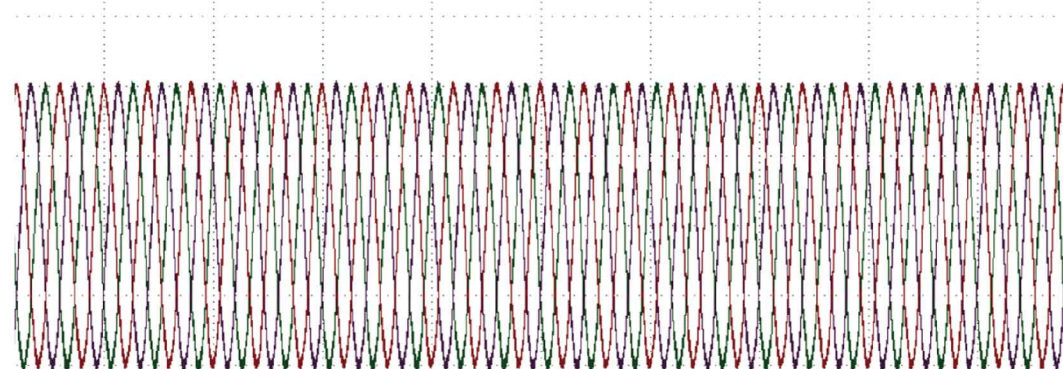
GTS Series All-digital

技术参数

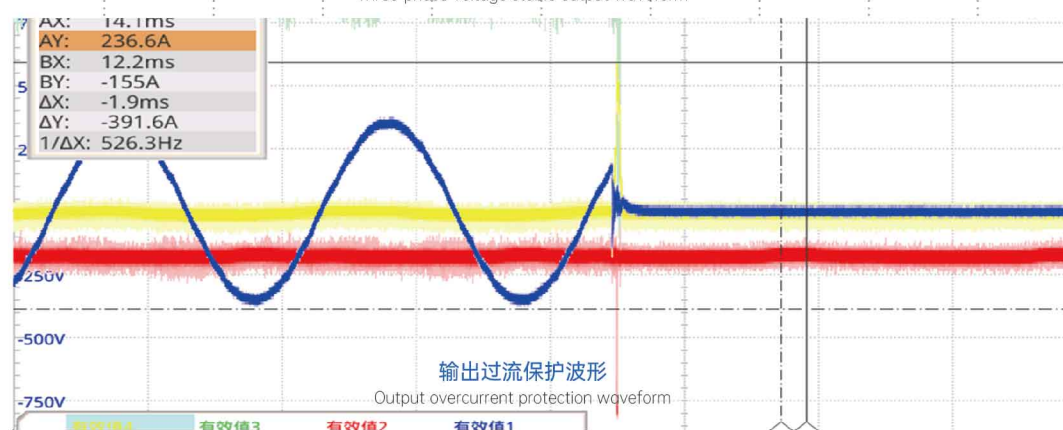
Technical parameters



三相电压启动波形
Three-phase voltage Start waveform



三相电压稳定输出波形
Three-phase voltage stable output waveform



输出过流保护波形
Output overcurrent protection waveform

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GTS series All-digital Three Phase IGBT Inverter Module GTS系列全数字三相IGBT逆变模块

GTS 系列全数字三相 IGBT 逆变模块通过高性能 DSP 处理器、高精度 PWM 实现对输出电压、电流、功率的精确控制。可广泛应用于各种工业加热、热处理等自动控温系统的三相交流功率的连续调节。

GTS-series all-digital three phase IGBT inverter module realizes precise control of output voltage, current and power through high-performance DSP processor and high-precision PWM. It can be widely used in the continuous adjustment of three-phase AC power in various industrial heating, heat treatment and other automatic temperature control systems.

GT □ △ - △ KVA / △ X △ VAC - (△) VAC - (□)

选型说明 Model definition

- 熔断器 (无: 无熔断器 / I: 内置熔断器 / O: 外置熔断器)
Fuse (NO: no fuse / I: fuse built-in / O: fuse external)
- 热场负载额定电压 (13: 热场额定电压 13VAC/20: 热场额定电压 20VAC/26: 热场额定电压 26VAC/ 其它: 用户自定义电压)
Rated voltage of thermal field load(13: Rated voltage of thermal field is 13VAC/20: Rated voltage of thermal field is 20VAC/26: Rated voltage of thermal field is 26VAC/other: user's customization)
- 输入额定电压 (380: 额定电压 380VAC/220: 额定电压 220VAC/415: 额定电压 415VAC/ 其它: 用户自定义电压)
Input rated voltage (380: rated voltage 380VAC/220: rated voltage 220VAC/415: rated voltage 415VAC/ other: user's customization)
- 相数 (1: 单相 / 3: 三相) 1: Single-phase 3: Three-phase
- 最大输出视在功率 Maximum output apparent power
- 设计序号 (1: 交流调压器 / 2: 直流调压器 / 3: 零触发调压器 / 4: 数字化调压器)
Design Serial Number: (1: AC voltage regulator / 2: DC voltage regulator / 3: zero trigger voltage regulator / 4: digital voltage regulator)
- 冷却方式 (A: 自然冷却 / F: 强制风冷 / S: 水冷)
Cooling mode (A: natural cooling/F: forced air cooling/S: water cooling)
- 功率管类型 (KT: 可控硅类功率控制器 / GT: IGBT 类功率控制器)
Power tube type (KT: SCR power controller/GT: IGBT power controller)



特点

Characteristics of Power supply

- 采用模块化设计,按照行业标准设计。
- 高稳态功率输出,输出稳定性 ±0.2%。
- 全数字化 SPWM 调制。
- 恒压 / 恒流 / 恒功率三种控制方式的任意切换。
- 控制参数、控制模式运行中可切换。
- 更宽范围的参数调节功能。
- 丰富的控制接口。
- It adopts modular design according to relevant industrial standards.
- High steady-state power output. Output stability ±0.2%.
- ALL-digital SPWM modulation.
- Arbitrary switching of the three control modes of constant voltage/current/power.
- Parameters and control modes can be changed when there is powering output.
- The widest range of parameter settings.
- More control interfaces.

技术参数

GTS series All-digital Three Phase IGBT Inverter Module

Technical parameters

型号 Model	GTS4-54KVA-3X380VAC-26VAC	GTS4-31KVA-3X380VAC-20VAC	GTS4-27KVA-3x380VAC-13VAC
输入参数 Input parameters			
输入电压 Input voltage	380VAC (300~450VAC), 3+N/PE三相五线制 Three-phase five-wire system		
输入频率 Input frequency	50Hz/60Hz(45~65Hz)		
最大输入电流 Max input current	3x120A	3x69A	3x60A
最大视在功率 Max apparent power	60KVA	34KVA	30KVA
输出参数 Output parameters			
额定输出电压 Rated output voltage	380VAC, 三线制 Three-wire system		
电压范围 Voltage range	0-380VAC		
输出频率 Output frequency	50Hz±0.5Hz		
最大输出电流 Max output current	3x86A	3x50A	3x43A
最大输出视在功率 Max output apparent power	54KVA	31KVA	27KVA
有功功率调节范围 Active power regulation range	0-100%		
稳流精度 Precision of steady current	≤0.1%		
电压总谐波畸变率 Total harmonic distortion of the voltage	≤5%		
调节模式 Regulation mode	恒压、恒流、恒功率 Constant voltage, constant current, constant power		
功率调节分辨率 Resolution ratio of Power regulation	1w		
性能参数 Performance parameters			
最大效率 Max efficiency	98.50%		
启动功率 Initial power	45W		
通讯 Communication	RS485, 38400-8-N-1		
能量管理单元 Energy management unit	满足客户需求 Meet customer's requirement		
模拟量输入 Analog quantity input	支持 Supported		

技术参数

GTS-Series All-digital Three Phase IGBT Inverter Module

Technical parameters

型号 Model	GTS4-54KVA-3X380VAC-26VAC	GTS4-31KVA-3X380VAC-20VAC	GTS4-27KVA-3x380VAC-13VAC
环境参数 Environmental parameters			
环境温度 Ambient temperature	+5°C~+60°C		
相对湿度 Relative humidity	0-95%无冷凝 0-95%No condensation		
拓扑结构 Topological structure	模块内无变压器 No transformer in the module		
防护等级 Protection class	IP20		
最高海拔高度 Max altitude	1000米(大于1000米降额) Derating above 1000 meters		
噪声 Noise	<60dB		
重量 Weight	<70kg		
冷却方式 Cooling	水冷+强制风冷 Water cooling plus forced air cooling		
冷却水要求 Requirements for cooling water	水压 0.1-0.3MPa,水流量 ≥20L/min Water pressure 0.1-0.3MPa,water flow rate ≥20L/min		
	进水温度 5~35°C Water inlet temperature 5~35°C		
	酸碱度PH值为 7~8.5 Range of the PH value is 7~8.5		
	硬度 ≤10度 (含氯化钙 ≤10mg/L), 总固体含量不超过 250mg/L Water hardness ≤10 (calcium chloride content ≤10mg/L), total solid content is not more than 250mg/L		
外形尺寸 Dimensions	700mm x 600mm x 188.5mm		
其他参数 Other parameters			
绝缘阻抗 Insulation resistance	>5MQ		
绝缘强度 Insulating strength	输入input-地ground: 2.5KVAC, <10mA, 1分钟one minute 输出output-地ground: 2.5KVAC, <10mA, 1分钟one minute		
装配条件 Assembly condition	水平安装, 无剧烈振动和冲击, 以及垂直倾斜度不超过 5% Horizontal installation, free of violent vibration and impact, and vertical inclination not more than 5%		

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