

Overview

纲要

Protection function is very important

保护功能至关重要

Genset's control and protection are always the core technology of SmartGen.

数十年来，发电机组控制保护一直是SmartGen的核心技术优势。

All products of SmartGen from protector to automatic controller (Microprocessor-based, integrated a number of protection features as standard application) have passed the test of practice.

SmartGen的产品，从简单的功能保护装置到高级的全自动控制器（以微处理器为基础、集成了大量的保护功能作为标准应用）均通过了实践的严格检验。

Solutions of SmartGen Protection and Control System:

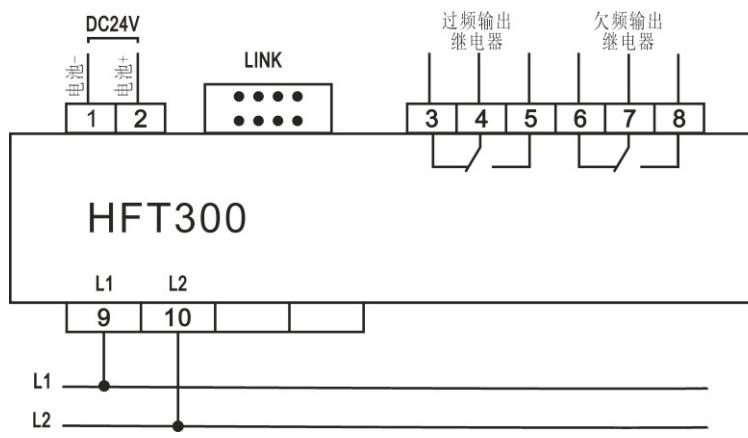
1. Over/Under Frequency Protection
2. Over/Under Voltage Protection
3. Overcurrent Protection
4. Reverse Power Protection

SmartGen保护控制系统，提供了多种保护解决方案：

1. 过频/欠频保护；
2. 过压/欠压保护；
3. 过流保护；
4. 逆功率保护；

Over/Under Frequency Protection

过频/欠频保护



Over/Under Frequency Protection

过频/欠频保护

Characteristics---HFT300

产品特点---HFT300



Characteristics:

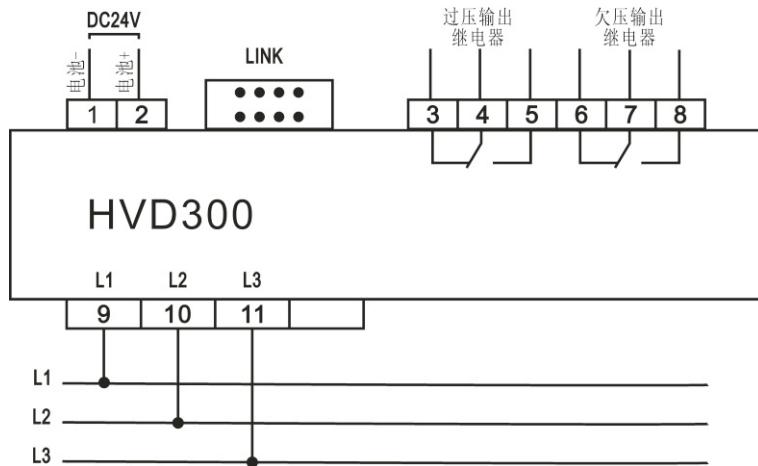
- 1.Under/Over frequency combination protection
- 2.Fault LED display
- 3.Adjustable actuation time
- 4.Relay output LED display
- 5.Π-type 35mm guide-rail installation
- 6.CCS certification
- 7.Apply to 3-phase 4-wire, 3-phase 3-wire, 2-phase 3-wire,single-phase 2-wire power supply and 50Hz, 60Hz, 400Hz system

特点:

- 1.欠频率/过频率组合保护
- 2.故障时LED显示
- 3.动作时间可调
- 4.输出继电器动作时LED显示
- 5.35 mmΠ型导轨安装
- 6.CCS认证
- 7.适用于三相四线、三相三线、两相三线、单相二线电源 50Hz、60Hz、400Hz系统

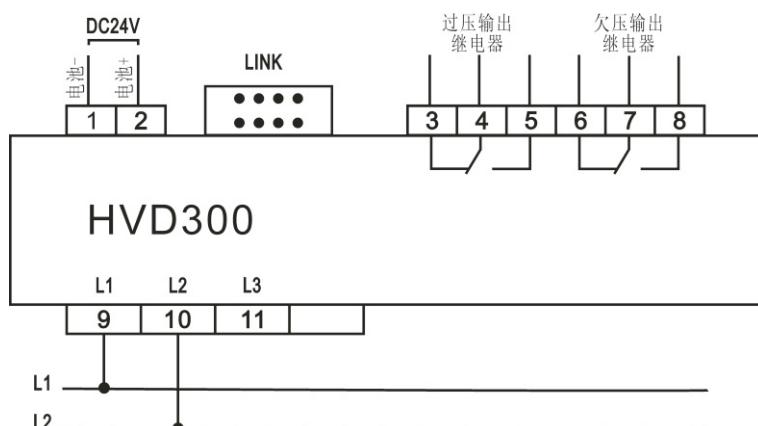
Over/Under Voltage Protection

过压/欠压保护



Over/under voltage protection----application of 3-phase 3-wire and 3-phase 4-wire

过压/欠压保护三相三线、三相四线应用



Over/under voltage protection----application of single-phase 2-wire and 2-phase 3-wire

过压/欠压保护单相两线、两相三线应用

Over/Under voltage, loss of phase, reverse phase sequence protection

欠压/过压/缺相/逆相序保护

Characteristics---HVD300

产品特点---HVD300



Characteristics:

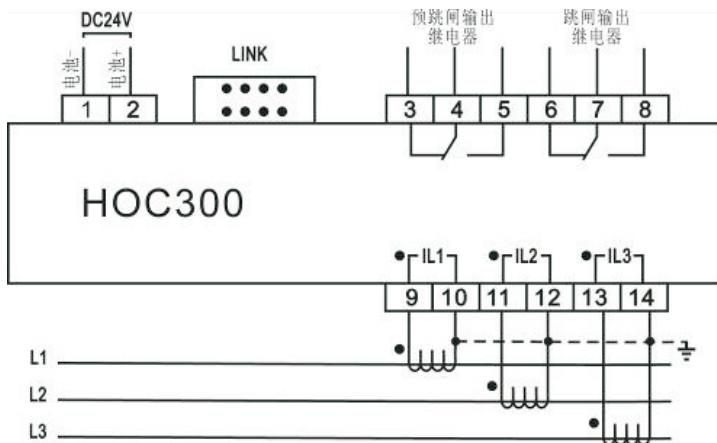
1. Over/Under voltage, loss of phase, reverse phase sequence protection
2. Apply to single-phase or 3-phase voltage detection
3. Fault LED display
4. Adjustable actuation time
5. Relay output LED display
7. CCS certification
8. Apply to 3-phase 4-wire, 3-phase 3-wire, 2-phase 3-wire, single-phase 2-wire power supply and 50Hz, 60Hz, 400Hz system

特点：

1. 欠电压、过电压、缺相、逆相序保护
2. 用于单相或者三相电压检测
3. 故障时LED显示
4. 动作时间可调
5. 输出继电器动作时LED显示
6. 35 mm导轨安装
7. CCS认证
8. 适合于三相四线、三相三线、两相三线、单相二线电源 50Hz、60Hz、400Hz系统

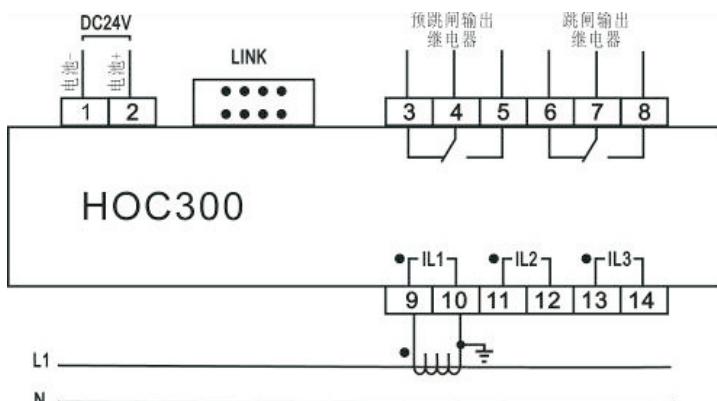
OverCurrent Protection

过流保护



Overcurrent protection--application of 3-phase 3-wire and 3-phase 4-wire

过流保护三相三线、三相四线应用



Overcurrent protection-- application of single-phase 2-wire and 2-phase 3-wire

过流保护单相两线、两相三线应用

OverCurrent Protection

过流保护

Characteristics---HOC300

产品特点---HOC300



Characteristics:

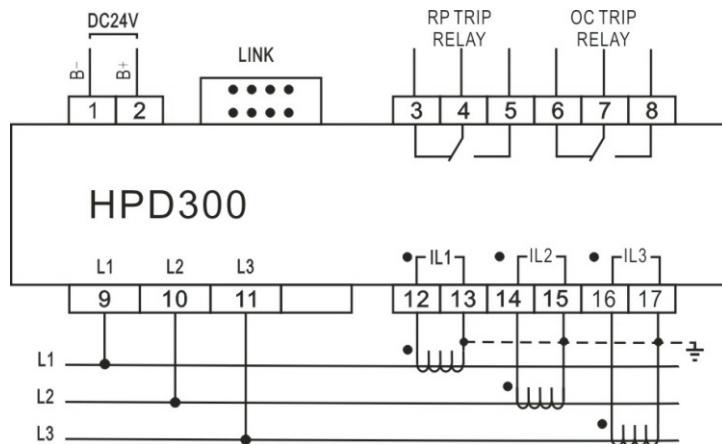
1. Overcurrent protection
2. Apply to detect single-phase or three-phase current
3. Fault LED display
4. Adjustable actuation time
5. Relay output LED display
6. π -type 35mm guide-rail installation
7. CCS certification
8. Apply to 3-phase 4-wire, 3-phase 3-wire, 2-phase 3-wire, single-phase 2-wire power supply and 50Hz, 60Hz, 400Hz system

特点:

1. 过流保护
2. 用于单相或三相电流测量
3. 故障时LED显示
4. 动作时间可调
5. 输出继电器动作时LED显示
6. 35 mm π 型导轨安装
7. CCS认证
8. 适合于三相四线、三相三线、两相三线、单相二线电源 50Hz、60Hz、400Hz系统

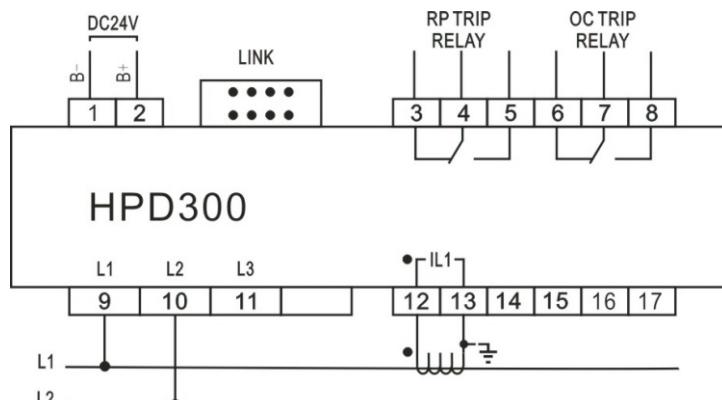
Reverse Power Protection

逆功率保护



Reverse power protection----application of 3 phase 2-wire and 3-phase 4-wire

逆功率保护三相三线、三相四线应用



Reverse power protection----application of single phase 2-wire and 2-phase 3-wire

逆功率保护单相两线、两相三线应用

Reverse Power Protection

逆功率保护

Characteristics---HPD300

产品特点---HPD300



Characteristics:

1. Reverse power protection
2. Fault LED display
3. Adjustable actuation time
4. Relay output LED display
5. Π -type 35mm guide-rail installation
6. CCS certification
7. Apply to 3-phase 4-wire, 3-phase 3-wire, 2-phase 3-wire, single-phase 2-wire power supply and 50Hz, 60Hz, 400Hz system

特点:

1. 逆功率保护
2. 故障时LED显示
3. 动作时间可调
4. 输出继电器动作时LED显示
5. 35 mm Π 型导轨安装
6. CCS认证
7. 适合于三相四线、三相三线、两相三线、单相二线电源 50Hz、60Hz、400Hz系统