

VSD (Variable Speed Drive) Controller



INTRODUCTION

The VSD.X range of variable speed drives provides unrivaled economy coupled with quality over a wide range of power requirements (~1 to 37Kw)*

These units can be used for a range of HVAC and air-con related processes and applications such as water pumps, fan control etc. to produce accurate and energy efficient control.

With built in LCD panel, PID control and I/O when used with the SuperVZR sophisticated control strategies such as Demand Response (DR) are simple to do.

* (larger ranges available)

FEATURES

Input & Output

Input Voltage Range: 380/220V±15%

Input Frequency Range: 47~63Hz

Output Voltage Range: 0~rated input voltage

Output Frequency Range: 0~600Hz

I/O Features

Programmable Digital Input: Provide 4 terminals which can accept ON-OFF inputs, and 1 terminal which can accept high speed pulse input.

Programmable Analog Input: AI1 can accept input of 0 ~10V, AI2 can accept input of 0~10V or 0~20mA.

Programmable Open Collector Output: Provide 1 output terminal (open collector output or high speed pulse output)

Relay Output: Provide 2 output terminals (1 for 2.2kW and below)

Analog Output: Provide 1 output terminal, whose output scope can be 0/4~20 mA or 0~10 V, as chosen.

SuperVZR OPC HMI TCP/IP/Ethernet LAN and compatible RS485 network – all main parameters control, read/write, historical log, trend and alarm.

Main Control Function

Control Mode: V/F control.

Overload Capacity: 60s with 150% of rated current, 10s with 180% of rated current.

Speed Adjusting Range: 1:100.

Carrier Frequency: 0.5kHz ~15.0kHz.

Frequency reference source: keypad, analog input, HDI, serial communication, multi-step speed, simple PLC and PID. The combination of multi-modes and the switch between different modes can be realized.

PID Control Function

Simple PLC, Multi-Steps Speed Control Function: 16 steps speed can be set.

Traverse Control Function Length and Time Control Function None-Stop when instantaneous power off.

Speed Trace Function: Smoothly start the running motor.

QUICK/JOG Key: User defined shortcut key can be realized.

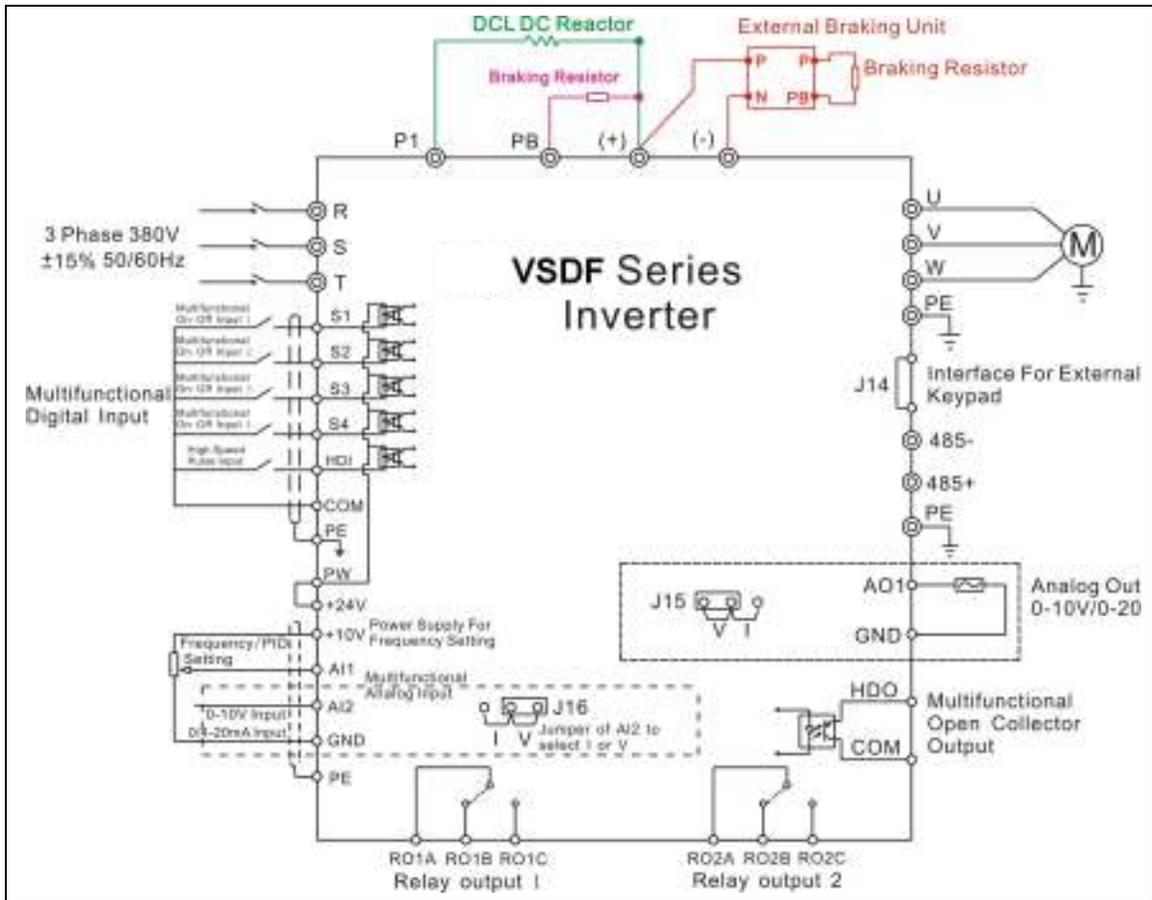
Automatic Voltage Regulation Function (AVR):

Automatically keep the output voltage stable when input voltage fluctuating

Up to 23 fault protections:

Protect from over current, over voltage, under voltage, over temperature, phase failure, over load etc.

WIRING



LCD PANEL

