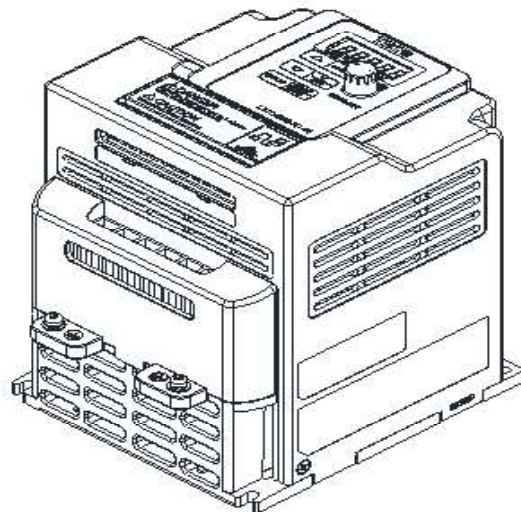
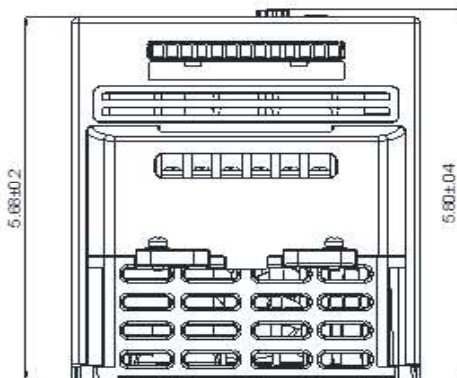
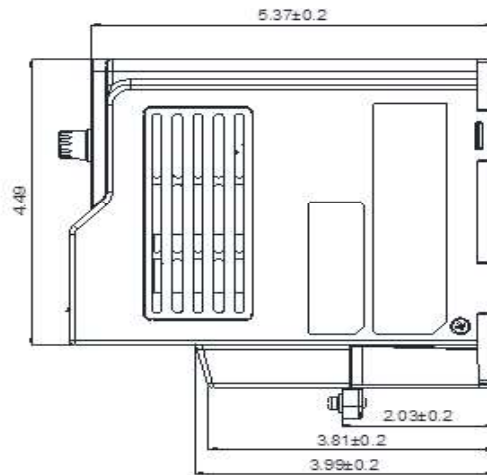
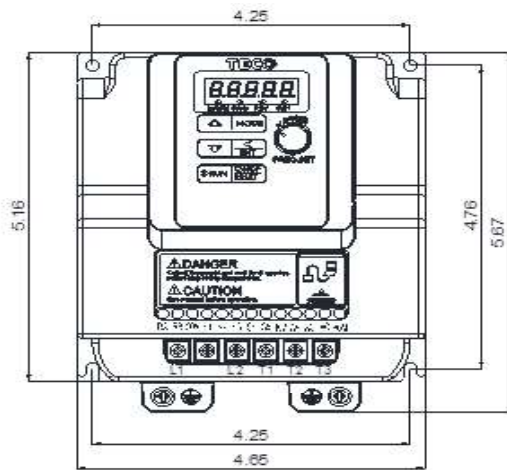


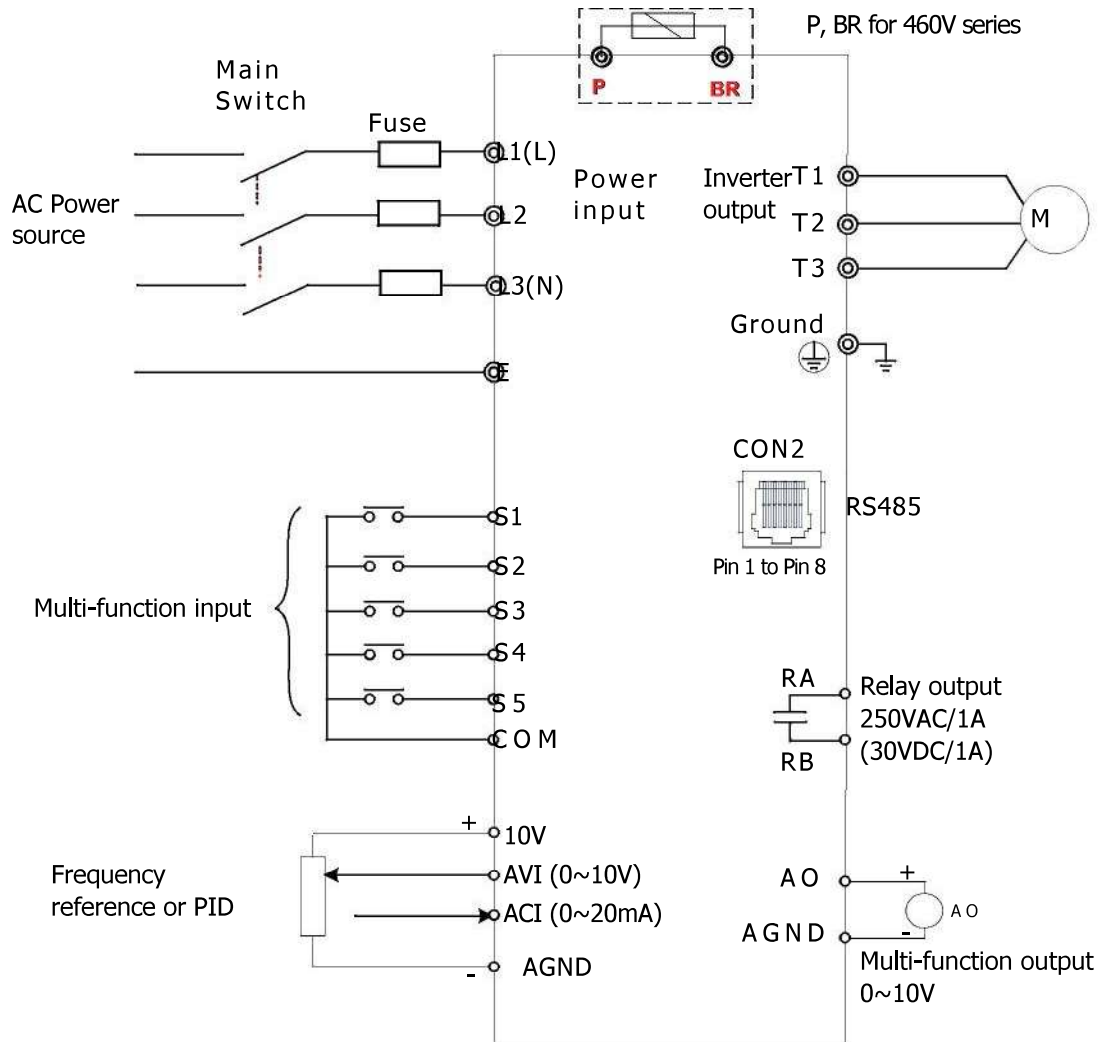
GENERAL DATASHEET VARIABLE SPEED DRIVE

Series L510		MODEL# L510-402-H3-U		
ISSUED 3/16/2017		ENCLOSURE/ FRAME Chassis (IP20/00)/ F2		
INPUT AMPS HD (CT) 5.6		AC INPUT VOLTAGE 460	AC INPUT FREQUENCY 50/60	AC INPUT PHASE 3
OUTPUT HP HD (CT) 2	OUTPUT AMPS HD (CT) 3.8	AC OUTPUT VOLTAGE 0-460	AC OUTPUT FREQUENCY 0-599	AC OUTPUT PHASE 3



Approved By:	Brian Smith	Drawing No:	L510-460-002-F2	Revision: 0
--------------	-------------	-------------	-----------------	-------------

Wiring Diagram



Terminal Symbols	TM1 Function Description Main
L1(L)	power input, L1(L)/L2/L3(N)
L2	
L3(N)	
P*	Externally connected braking resistor
BR*	
T1	Inverter output, connect to U, V, W terminals of motor
T2	
T3	
	Ground Terminal
RA	Relay output terminal, Specification: 250VAC/1A(30VDC/1A)
RB	
COM	S1-S5 (COMMON)
S1	Multi-function input terminals
S2	
S3	
S4	
S5	
10V	Built-in power for external speed potentiometer
AVI	Analog voltage input, Specification: 0-10VDC/ 2-10V
ACI	Analog current input, Specification: 0/4-20mA
AO	Multi-function analog output terminal. Maximum output 10VDC/1mA
AGND	Analog ground terminal

*P, BR for 460V series

Operating Features and Characteristics

Control Mode		V/F control + auto-torque compensation function, sensorless vector
Frequency	Range	0.01 - 650.00Hz
	Setting resolution	Digital input: 0.01Hz
		Analog input: 0.06Hz/ 60Hz.
	Setting	Keypad: Set directly with ▲▼ keys or the VR (Potentiometer) on the keypad
		External input terminals: AVI (0/2-10V), ACI (0/4-20mA) input Multi-function input up/ down function parameter (Group 3)
Setting frequency by communication method		
Frequency limit	Lower and upper frequency limits 3-skip frequency settings	
Run	Operation Set	Keypad run, stop button External terminals Multi-operation mode: 2/3 wire selection Jog operation
		Run signal by communication method
Common Control	V/ F curve setting	6 fixed curve and one customized curve
	Carrier frequency	1-16KHz (default 5KHz)
	Acceleration & deceleration control	2 sets of Acc/ Dec time parameters 4 sets of S curve parameters.
	Multi-function input	19 functions
	Multi-function output	14 functions
	Multi-function analog output	5 functions
	Main Features	Overload detection, 8 preset speeds, Auto-run, Acc/ Dec Switch, Main/ Alt Run Command Select, Main/ Alt Frequency Command Select, PID control, Torque Boost, V/F Start Frequency, Fault Reset

Protection	
Protection Class	IP20
Suitable environment	
Operating Temperature	-10~40°C (-10~50°C with fan) If several inverters are installed in the same control panel, ensure adequate spacing and provide the necessary cooling and ventilation for successful operation
Storage Temperature	-20~60°C
Relative Humidity	Max 95°C (without condensation)
Shock	1G (9.8m/s ²) for <20Hz. 0.6G (5.88m/s ²) 20Hz~50Hz