

Braking unit and braking resistor

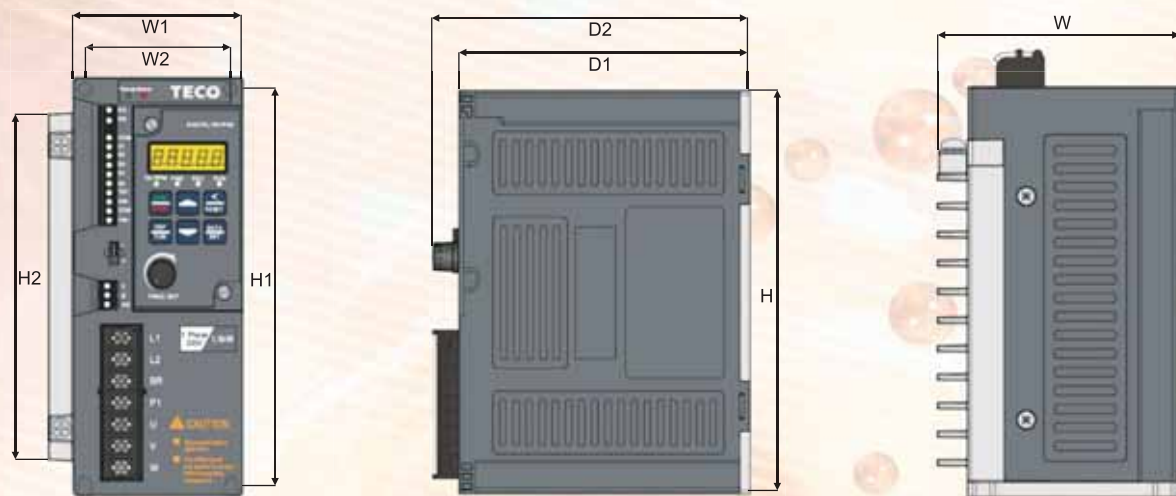
FAMCO
هایپر صنعت

Variable Frequency Drive

TECO

S310 Series

Dimension

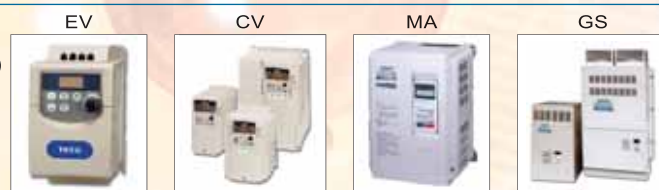


Unit:mm(inch)

Model	W	W1	W2	H	H1	H2	D	D1
S310-20P5/2001-H1BCD	79(3.11)	69(2.71)	59(2.32)	160(6.29)	152(5.98)	133(5.23)	145(5.7)	133(5.23)

TECO INVERTER

- EV series : 0.25~1HP(110V),0.25~3HP(220V),1~3HP(440V)
- CV series : 0.5~40HP(220V),1~75HP(440V)
- MA series : 1~40HP(220V),1~75HP(440V)
- GS series : 25~100HP(220V),25~400HP(440V)



TECO PLC / PLR

- TP03 series : 14/20/26/30/36/40/60 I/O MAX256points
- SG2 series : 10/12/20points



Distributor

TECO SERVO

- JSDA series : 100W~15KW(220V)
- JSDE series : 50W~2KW(220V)



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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

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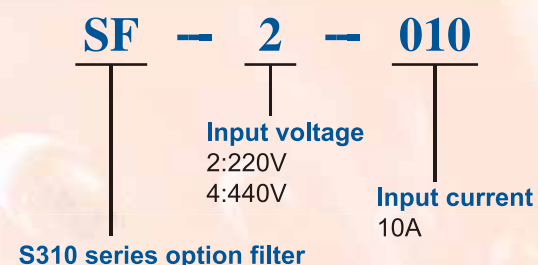
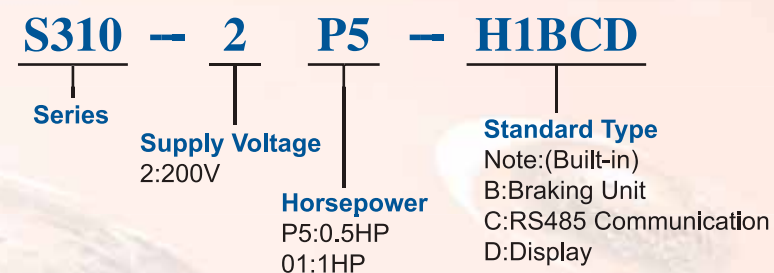
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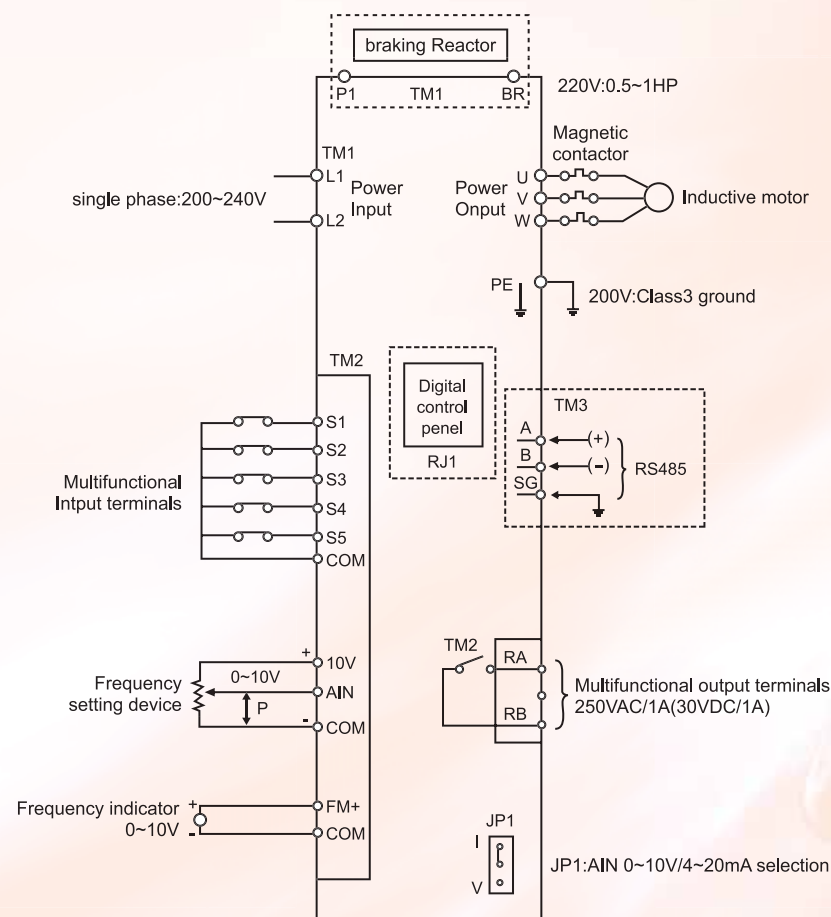
Product Features

- ▶ With auto torque boost, 150% torque output at 6 Hz
- ▶ Output frequency up to 400Hz
- ▶ Ultra low noise operation with built-in SOFT-PWM
- ▶ Improved braking Capability by Built-in Braking Transistor
- ▶ Built-in RS485 communication
- ▶ 5 digit 7 segment removable keypad with standard RJ45 interface
- ▶ Natural cooling, eliminating noise from fan
- ▶ Economic blind type model (Without display/keypad) is available

Definition of model / filter



Wiring Diagram



Application

Application for Cutting Machine

- **High Environment Immunity**
 - Without fan
 - Heat sink outside designing for dusty environment
 - Less trip at low voltage
 - Coated PCB
- **High Performance**
 - High braking ability without braking resistor
 - High torque at low speed
 - Fast response time



Product Specifications

Single / Three phase, 200-240V model

S310-□□□□-XXX	2P5	201
Horsepower (HP)	0.5	1
Max Applicable Motor Output (KW)	0.4	0.75
Rated Output Current (A)	3.1	4.2
Rated Capacity (KVA)	0.88	1.60
Max. Input Voltage	Single Phase: 200~240V +10% -15%, 50/60Hz ± 5%	
Max. Output Voltage	Single Phase: 200~240V	
Input Current (A)	5.4	10.4
Net Weight (KG)	0.97	0.97
Net Weight (KG)(keypad)	1.0	1.0
Allowable momentary power loss time (second)	1.0	1.0

General Specifications

Item	S310 TYPE
Control Mode	V/F
Frequency Control	
Range	0.01~400.00 Hz
Setting resolution	Digital: 0.01Hz (Note*1), Analog: 0.06Hz/ 60Hz (10bits)
Keypad setting	Set directly with ▲▼ keys or the VR on the keypad
Display Function	Five digital LED and status indicator: display frequency / Inverter parameter/ Fault Log/ Program Version
External signal setting	1. External potentiometer 0-10V/ 0-20mA 2. Provides up/down controls, speed control with multifunctional contacts on the terminal block (TM2)
Frequency Limit Function	Upper/lower frequency limits
General Control	
Carrier frequency	1 ~ 12 kHz
V/F pattern	6 fixed patterns, 1programable curve
Acc/Dec control	Acc/Dec time (0.1 ~ 3,600 seconds)
Multifunction analog output	4 functions (refer to description on 2-12)
Multifunction input	9 functions (refer to description on 01-00~01-04)
Multifunction output	3 functions (refer to description on 01-09)
Other Functions	Momentary Power Loss Restart, Overload Detection, 8 preset speeds, 2/3-wire Control, torque boost, Slip Compensation, Frequency Upper/ Lower Limit, Modbus slave and PC/PDA Link, Auto Restart.
Communication Control	1. Control by RS485 2. One to one or one to many (RS485 ONLY) control. 3. BAUD RATE/STOP BIT/PARITY/bit can be set
Braking Torque	About 20%,standard model the specified external braking resistors can provide 100%
Operation temperature	14-120°F (-10 ~ 50°C) (Note*2)
Storage temperature	4-140°F (-20 ~ 60°C)
Humidity	0-95% Relative Humidity (Non-condense)
Vibration	1G (9.8m/s ²)
Enclosure	IP20
Protective Functions	
FUSE protection	The motor stops after FUSE melt
Over Voltage	200V class: DC Voltage > 410V
Under Voltage	200V class: DC Voltage < 190V
Momentary Power Loss Restart	Restart can be initiated with spin start after momentary power loss in Max 2 sec.
Other Function	Over torque detection, error contact control, reverse prohibit, prohibit for direct start after power up and error recovery.

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