



S310

Simple Inverter

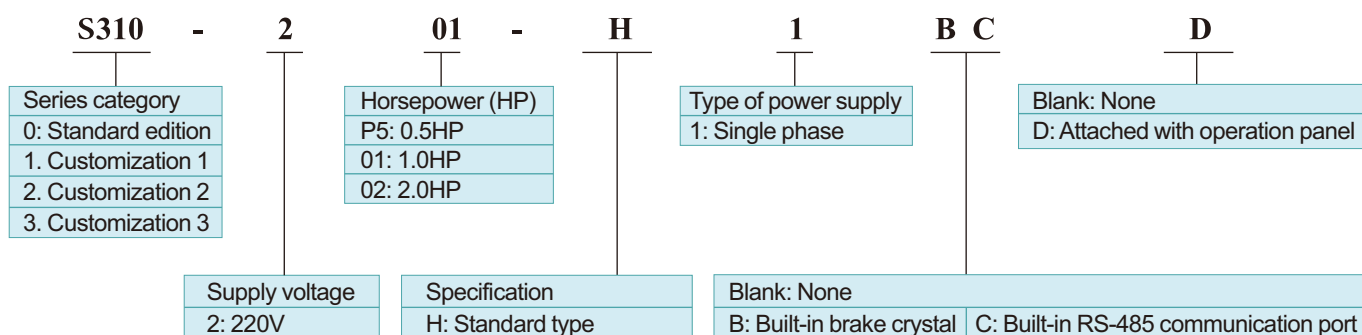


Product Feature

- IPM intelligent module design
- Automatic compensation function of high torque V/F
- Built-in RS-485 communication port
- Complete protection function
- Parameter copy function (optional)
- Panel with potentiometer knob
- Flexible software grouping to facilitate user's parameter arrangement
- 8-stage speed setting, and the acceleration and deceleration time of each stage can be set separately



Model Description



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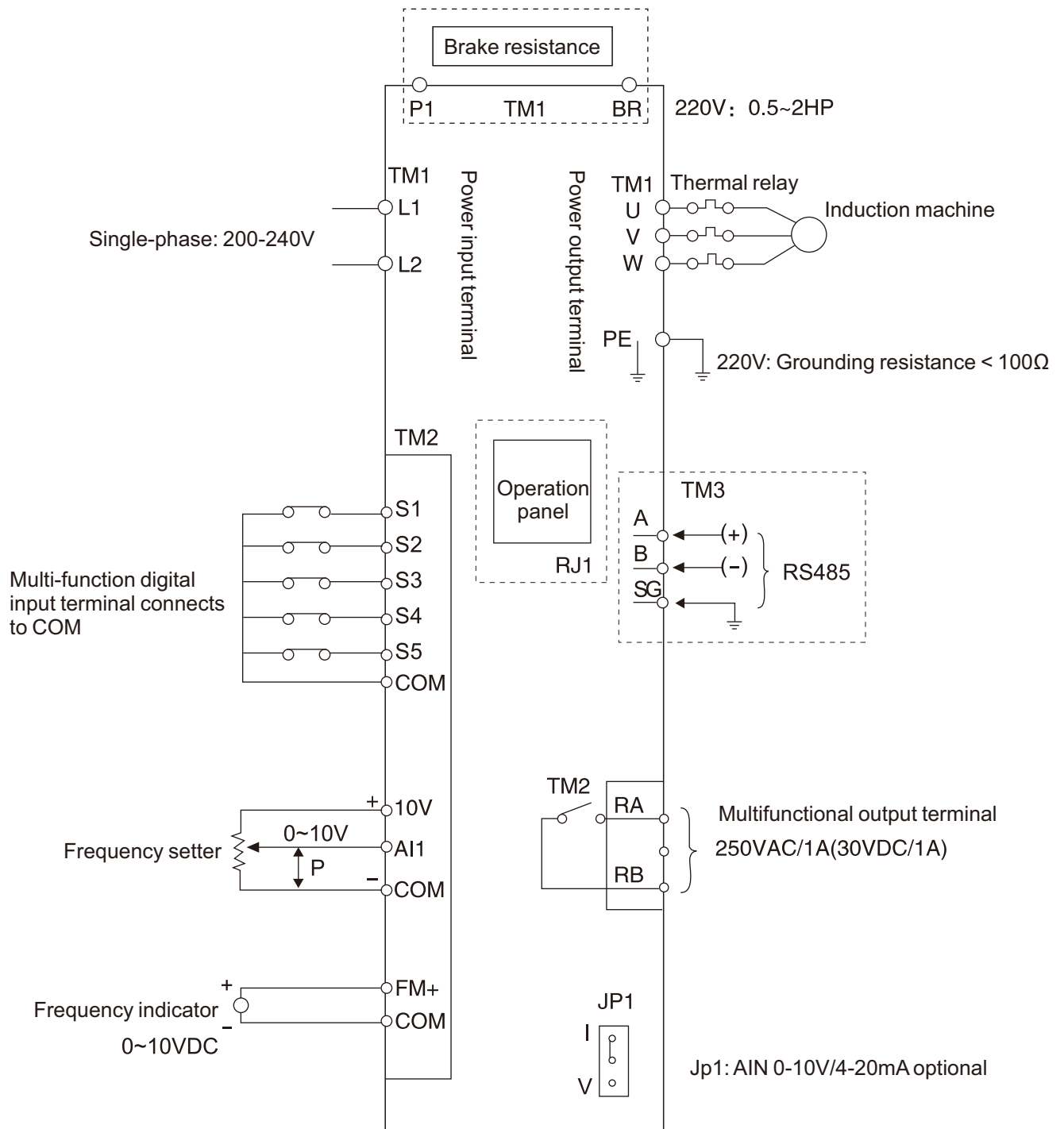
Single-phase: 200-240V model

Model: S310-□□□□-H1	2P5	201	202
Horsepower (HP)	0.5	1	2
Applicable motor capacity (KW)	0.4	0.75	1.5
Rated current (A)	3.1	4.2	7.5
Rated capacity (KVA)	0.88	1.60	2.9
Input maximum voltage	Single-phase 200~240V + 10%~15%, 50/60Hz±5%		
Output maximum voltage	Single-phase 200-240V		
Input current (A)	5.4	10.4	16
Net weight (kg)	0.97	0.97	1.07
Permissible instantaneous stop time (sec)	2.0	2.0	2.0
Heat dissipation method	Self-cooling	Self-cooling	Air-cooling

Standard Specification

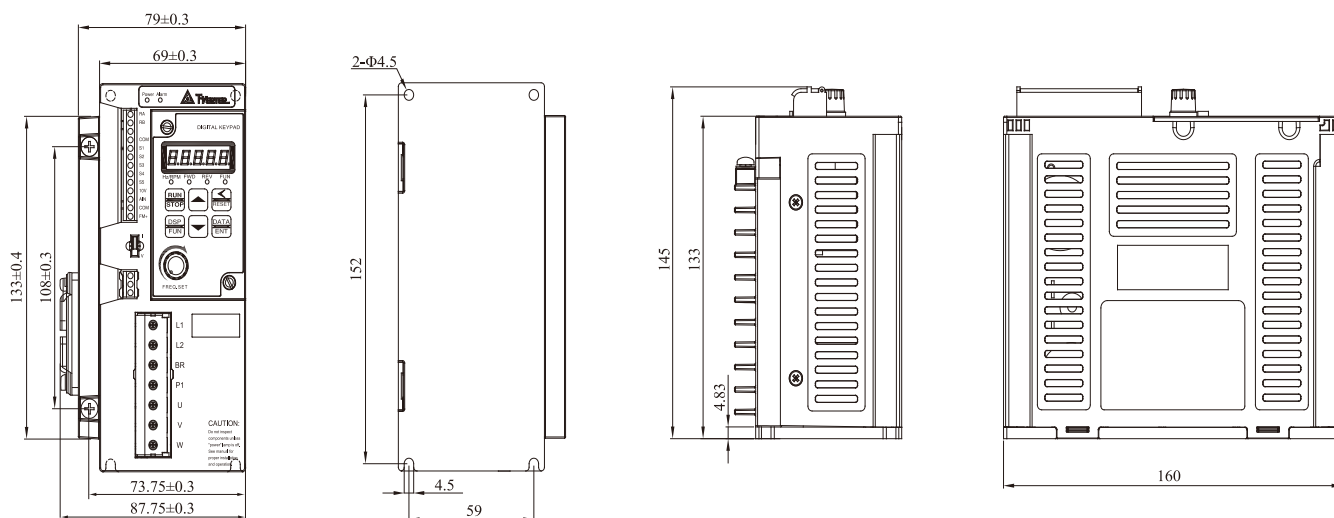
Project		Specification
Control mode		V/F
Frequency control	Scope	0.01-400.00 Hz
	Set resolution	Digital type: 0.01Hz; Analog type: 0.06Hz/60Hz (10Bit)
	Operation panel setting mode	It can be set directly with ▲ ▼ or with the potentiometer knob on the keyboard
	Display function	Five-digit LED and status indicator; It can display frequency/inverter parameters/fault record/program version, etc.
	External signal Setting mode	1. Potentiometer or external analog quantity (0~10V/4~20mA) 2. Multi-function contacts on TM2 terminal block can be used as stage speed control function or automatic program operation function
	Frequency limiting function	Upper/lower frequency limit
General control	Carrier frequency	1-12 kHz
	V/F mode	6 fixed curves and 1 arbitrary curve
	Acceleration and deceleration control	Acceleration and deceleration time 1 (0.1-3600 sec)
	Multifunctional analog output	4 functions available (refer to 2-12 Instructions)
	Multifunctional input	12 functions available (refer to 1-00 ~ 1-04, 2 Group instructions)
	Multifunctional output	6 functions available (refer to 1-09 Instructions)
	Other functions	Instantaneous restart, overload detection, 8-stage speed, 2/3-wire control, torque compensation, slip compensation, upper/lower limit of frequency, communication control (Modbus slave station is connected with PC/PDA), abnormal reset
Communication control		1. It can be controlled by RS485 2. It can be controlled by one-to-one or one-to-many (up to 32 sets) 3. Baud rate/stop bit/check bit/data bit can be set
Braking torque		About 20%, and the braking torque can reach more than 100% if the standard model is built with brake transistor and brake resistance
Operating temperature		-10 ~ 40°C
Storage temperature		-20 ~ 60°C
Humidity		0~95% relative humidity (no condensation)
Vibration resistance		1G (9.8m/S ²)
Protection class		IP20
Protection control	FUSE fuse protection	The motor stops after the fuse blows
	Over-voltage	220V class: DC voltage > 410V
	Under-voltage	220V class: DC voltage < 190V
	Instantaneous power failure and restart	Restarted by speed tracking after an instantaneous power failure
	Other functions	Fault contact control, reverse limit, limitation of direct start after startup and fault reset.

Wiring Diagram



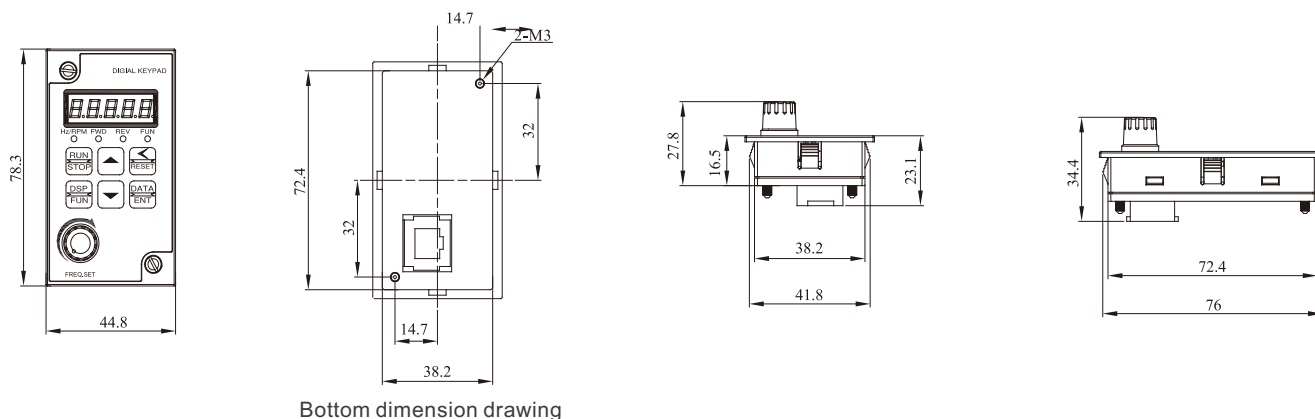
- * **Notes** 1: Refer to description of main circuit terminals (P, BR) for use, and braking resistor specification for selection of resistance value.
 2: Please avoid output grounding.

Overall Dimension



Description: Model 202 radiator with fan

Installation Dimension of LED Operation Panel



Bottom dimension drawing

Note: Panel model: S31DOP-01

Standard network cables are used for extension cables

Brake Resistance (Optional)

Inverter model	Applicable horsepower (HP)	Applicable motor capacity (KW)	Brake resistance specification		Brake resistance ED (%)	Braking torque (%)
			(W)	(Ω)		
2P5	0.5	0.4	60	200	8	218
201	1	0.75	60	200	8	119
202	2	1.5	150	100	10	119



Distributor

TECO
TECO Electric & Machinery Co., Ltd.

10F, No. 3-1, Park St., Nan-Kang, Taipei 115, Taiwan
TEL : 886-2-6615-9111Ext.1725 FAX : 886-2-6615-1033
<http://www.teco.com.tw>

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GJ-82-06 2021-03-30