GJ-13-00

TECO INVERTER

7200MA

A Compact Reliable Drive

220V Class 1Φ/3Φ 1~3HP

220V Class 3Φ 5~10HP

440V Class 3Φ 1~10HP

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TECO

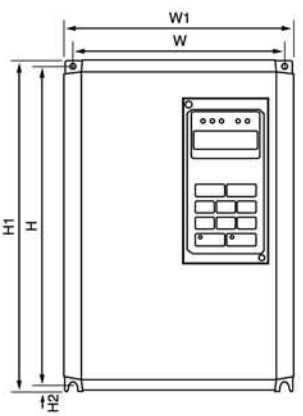
Key features

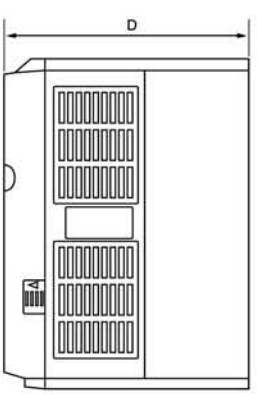
☆ User friendly
☆ Graphical LCD operator
☆ PG feedback
☆ Energy saving
☆ Easy maintenance
☆ Automatic torque boost
☆ Adjustable V/f pattern
☆ Low Price
☆ MODBUS communication
☆ 16-step speed control
☆ Parameter copy
☆ PROFIBUS optional
☆ Slip compensation
☆ Automatic voltage regulation
☆ Full Range DC injection braking
☆ Accumulative operation hour and fault record
☆ Multi-functions (PID, simple PLC, timer, Multiple Frequency pulse output)
☆ Dual rating operation (constant and variable torque) with overload protection
☆ Built-in braking resistor has braking torque reaching 100% rated torque (2%ED for 5sec)

Options

(Noise filter, AC reactor, PROFIBUS board, Braking resistor, Analog operator, Remote control extension cable)

Dimensions



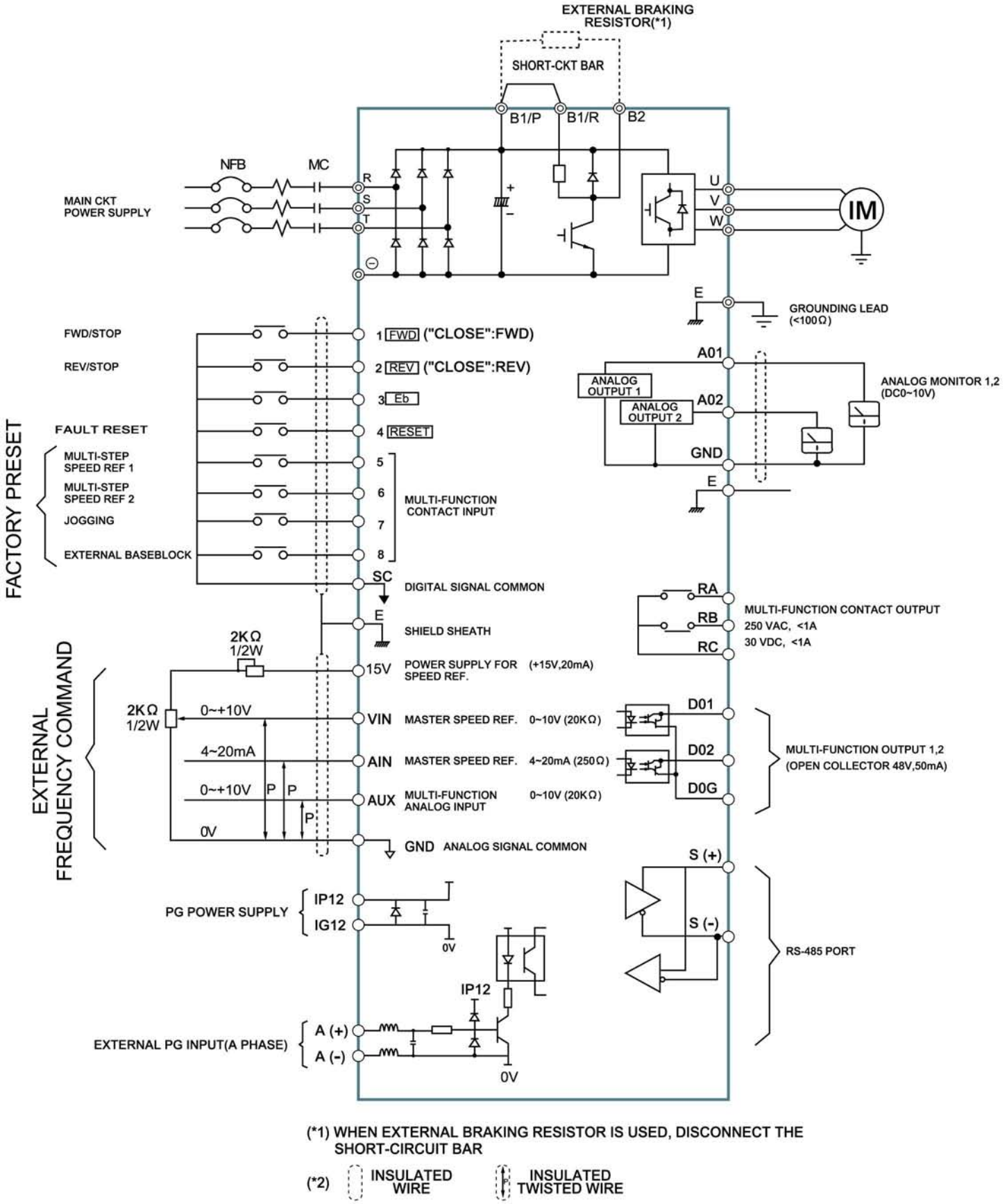


Model		Mounting dimension(mm)			External dimension(mm)			Approx mass (kg)
Voltage	Max. applicable motor output (HP)	W	H	H2	W1	H1	D	
220V 1Ø/3Ø	1	126	266	6.8	140	279.5	176.5	3.8
	2							
	3							3.9
220V 3Ø	5.4							
	7.5	192	286	7	211.2	300	215	5.6
	10							
440V 3Ø	1	126	266	6.8	140	279.5	176.5	3.8
	2							
	3							3.9
	5.4							
	7.5	192	286	7	211.2	300	215	5.6
	10							

Inverter Specification

Input Voltage Class		220V CLASS						440V CLASS					
		1- / 3-Phase			3-Phase			3-Phase					
MODEL		JNTMBGBB□□□□JK- - -						JNTMBGBB□□□□AZ- - -					
		0001	0002	0003	0005	7R50	0010	0001	0002	0003	0005	7R50	0010
MAX Applicable Motor Output Hp (kW)		1 (0.75)	2 (1.5)	3 (2.2)	5.4 (4)	7.5 (5.5)	10 (7.5)	1 (0.75)	2 (1.5)	3 (2.2)	5.4 (4)	7.5 (5.5)	10 (7.5)
Output Power	Rated Output Capacity (KVA)	2	2.7	4	7.5	10.1	11.8	2.2	3.4	4.1	7.5	10.3	12.3
	Rated Output Current (A)	4.8	6.4	9.6	17.5	24	28	2.6	4	4.8	8.7	12	15
	Max. Output Voltage (V)	3-Phase 200~230 V						3-Phase 380~460 V					
	Max. Output Frequency (Hz)	Through Parameter Setting (0Hz to 400Hz)											
Power Source	Rated Voltage. Frequency	1- / 3-Phase 200~230V 50/60Hz			3-Phase 200~230V 50/60Hz			3-Phase 380~460V 50/60Hz					
	Allowable Voltage Fluctuation	-15% ~ +10%											
	Allowable Frequency Fluctuation	±5%											
Control Feature	Operation Mode	Graphic LCD Panel (English and Chinese) with parameters copying											
	Control Mode	Sine PWM											
	Frequency Control Range	0.5Hz ~ 400Hz											
	Frequency Accuracy	Digital Command: ±0.01% (-10℃ ~ +40℃), Analog Command: ±1% (25℃±10℃),											
	Frequency Command Resolution	Digital Command: 0.01Hz, Analog Command: 0.06Hz / 60Hz											
	Frequency Output Resolution	0.01Hz											
	Overload Resistibility	150% Rated Current for 1 Min											
	Frequency Setting Signal	DC 0~+10V / 4~20 mA											
	ACC/DEC Time	0.0~6000.0 sec (Accel / Decel Time Can Be Set Independently)											
	Voltage-Frequency Characteristics	V/F Curve Can Be Set Through Parameter Setting											
	Regeneration Torque	100% Rated Current, 2% Duty Cycle Within 5 sec (With Built-in Braking Resistor)											
	Basic Control Function	Restart After Momentary Power Loss, PID Control, Auto Torque Boost, Slip Compensation, RS-485 Communication, Speed Feedback Control, Simple PLC function, Installed Low Duty Brake Resistor For All Series, 2 Analog Output Port											
	Extra Function	Cumulative Power on & Operation Hour memory, Energy Saving, Up / Down Operation, 4 Different sets of Fault Status Record (Including Latest one), MODBUS Communication, Multiple Frequency Pulse Output Ports, etc.											
Protection Function	Stall Prevention	During Acceleration/Deceleration and constant Speed Running (Current Level Can Be Selected During Acceleration and Constant Speed Running. During Deceleration, Stall Prevention Can Be Enabled or Disabled)											
	Instantaneous Overcurrent	Stopped if above 200% Rated Current											
	Motor Overload Protection	Electronic Overload Curve Protection											
	Inverter Overload Protection	Stopped if above 150% Rated Current for 1 Min.											
	Overvoltage	Stop if V_{DC}≧410V (220 Class) or V_{DC}≧820V (440 Class)											
	Undervoltage	Stop if V_{DC}≦200V (220 Class) or V_{DC}≦400V (440 Class)											
	Momentary Power Loss Ride-Through time	≧15ms, stop otherwise											
	Overheat Protection	Protected by Thermistor											
	Grounding Protection	Protection by DC Current Sensor											
	Charge Indication (LED)	Lit when the DC Bus Voltage Above 50V											
Mechanical Construction		Enclosed, Wall-Mounted Type (NEMA-1)											
Cooling		Self		Forced				Self		Forced			
Weight (kg)		3.8	3.8	3.9	3.9	5.6	5.6	3.8	3.8	3.9	3.9	5.6	5.6
Environmental Condition	Application Site	Indoor (No Corrosive Gas And Dust Present)											
	Ambient Temperature	-10℃ ~ +40℃ (Not Frozen)											
	Storage Temperature	-20℃ ~ +60℃											
	Ambient Humidity	Below 90%RH (Non-Condensing)											
	Height, Vibration	Below 1000m, 5.9m / S2 (0.6G), (JISC0911 Standard)											
Communication Function		RS-485 Built-in (MODBUS)											
EMI		Meet EN50081-2 (1994) With Specified EMI Filter											
EMC Compatibility		Meet Pr EN 50082-2											
Option		PROFIBUS Card											

Standard Connection Diagram



(*1) WHEN EXTERNAL BRAKING RESISTOR IS USED, DISCONNECT THE SHORT-CIRCUIT BAR

(*2) INSULATED WIRE INSULATED TWISTED WIRE

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