

Specification

Input Voltage Class	220V CLASS														440V CLASS																									
	1/3-Phase							3-Phase							3-Phase																									
Model	JNTMBGGBB□□□□JK														JNTMBGGBB□□□□AZ																									
Max Applicable Motor Output	HP	0001	0002	0003	0005	7R50	0010	0015	0020	0025	0030	0040	0001	0002	0003	0005	7R50	0010	0015	0020	0025	0030	0040	0050	0060	0075	0001	0002	0003	0005	7R50	0010	0015	0020	0025	0030	0040	0050	0060	0075
Rated Output Capacity (KVA)	2	2.7	4	7.5	10.1	13.7	20.6	27.4	34	41	54	2.2	3.4	4.1	7.5	10.3	12.3	20.6	27.4	34	41	54	68	82	110	2.6	4	4.8	8.7	12	15	24	32	40	48	64	80	96	128	
Rated Output Current(A)	4.8	6.4	9.6	17.5	24	32	48	64	80	96	130	2.6	4	4.8	8.7	12	15	24	32	40	48	64	80	96	128															
Max. Output Voltage (V)	3-Phase 200~240V														3-Phase 380~480V																									
Max. Output Frequency (Hz)	Through Parameter Setting (0Hz to 400Hz)																																							
Rated Voltage Frequency	1/3-Phase 200V~230V 50/60Hz							3-Phase 200V~240V 50/60Hz							3-Phase 380~480V · 50 / 60Hz																									
Allowable Voltage Fluctuation	-15 %~ +10%																																							
Allowable Frequency Fluctuation	± 5%																																							
Operation Mode	Graphic LCD Panel (English and Chinese) with parameters copying																																							
Control Mode	Sin Wave PWN																																							
Frequency Control Range	0.1Hz ~ 400Hz																																							
Frequency Accuracy (varied with temperature)	Digital Command: ±0.01% (-10 ~ +40°C), Analog Command: ±0.1% (25°C±10°C),																																							
Speed Control Accuracy	±0.1%(V/F with PG feedback), ±0.5% (Sensorless Vector Control)																																							
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, DC-10V~+10V and Pulse Input Frequency Command (Above 220V/440V 25HP)																																							
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	Approx. 20%																																							
Basic Control Function	Restart After Momentary Power Loss, PID Control, Auto Torque Boost, Slip Compensation, RS-485 Communication, Feedback Control, PLC function, 2 Analog Output Port																																							
Extra Function	Cumulative Power on & Operation Hour record , Energy Saving, Up/Down Operation, 4 Different sets of Fault Status Record (Including Latest one), Multiple-Pulse Output Select Local/Remote, Customer Application Software Environment (C.A.S.E.), SINK/SOURCE Interface																																							
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	200% Rated Current																																							
Motor Overload Protection	Electronic Overload Curve Protection																																							
Inverter Overload Protection	150% Rated Current for 1 Min.																																							
Overvoltage	Stop if VDC ≥ 410V (220 Class) or VDC ≥ 820V (440 Class)																																							
Undervoltage	Stop if VDC ≤ 200V (220 Class) or VDC ≤ 400V (440 Class)																																							
Momentary Power Loss Ride-Through time	≥ 15ms, stop otherwise																																							
Overheat Protection	Protection by Thermistor																																							
Grounding Protection	Protection by DC Current Sensor																																							
Charge Indication (LED)	Lit when the DC Bus Voltage Above 50V																																							
Output Phase Loss(OPL)	Motor coasts to stop at Output Phase Loss																																							
Application Site	Indoor (No Corrosive Gas And Dust Present)																																							
Ambient Temperature	-10°C ~ +40°C (Not Frozen)																																							
Storage Temperature	-20°C ~ +60°C																																							
Ambient Humidity	Below 90%RH (Non-Condensing)																																							
Height, Vibration	Below 1000M, 5.9m/S ² (0.6G), (JISC0911 Standard)																																							
Communication Function	RS-485 Installed (MODBUS Protocol)																																							
Encoder Feedback Interface	Built-in PG Feedback Interface Open-collector Interface or Complementary Interface																																							
EMI	Meet EN61800-3 With Specified EMI Filter																																							
EMS	Meet EN 61800-3																																							
Option	PROFIBUS Card																																							

*Based on 4pole motor *Specification of NEMA4 series are the same as above

Braking Unit & Braking Resistor

Resistor Model	Inverter Capacity		Specification of braking resistor		Braking resistor	Braking torque	Number used	Braking Unit				
	V	HP	W	Ω	ED%	%		Model	Number used			
150W200	220V 1φ/3φ	1	150	200	10	119	1	-	-			
150W100		2	150	100	10	119						
260W70		3	260	70	10	115						
390W40	220V 3φ	5	390	40	10	119	1	-	-			
520W30		7.5	520	30	10	108						
780W20		10	780	20	10	119						
2R4KW13R6		15	2400	13.6	10	117						
3KW10		20	3000	10	10	119						
4R8KW8		25	4800	8	10	119						
4R8KW6R8		30	4800	6.8	10	117						
3KW10		40	3000	10	10	119						
150W750		1	150	750	10	126				1	-	-
150W400		2	150	400	10	119						
260W250	3	260	250	10	126							
400W150	5	400	150	10	126							
600W130	7.5	600	130	10	102							
800W100	10	800	100	10	99							
1R6KW50	15	1600	50	10	126							
1R5KW40	20	1500	40	10	119							
4R8KW32	25	4800	32	10	119							
4R8KW27R2	30	4800	27.2	10	117							
6KW20	40	6000	20	10	119	1	JNTBU-230	1				
4R8KW32	50	4800	32	10	119	1	JNTBU-230	1				
4R8KW27R2	60	4800	27.2	10	117	2	JNTBU-230	2				
6KW20	75	6000	20	10	126	2	JNTBU-230	2				

Filter

Filter Model	Current	Inverter Model		Filter Model	Current	Inverter Model	
		V	HP			V	HP
JUNF12015S-MA	15A	220V 1φ	1	JUNF34008S-MA	8A	440V 3φ	1
JUNF12015S-MA	15A		2	JUNF34008S-MA	8A		2
JUNF12020S-MA	20A		3	JUNF34012S-MA	12A		3
JUNF32012S-MA	12A	220V 3φ	1	JUNF34012S-MA	12A	440V 3φ	5.4
JUNF32012S-MA	12A		2	JUNF34024S-MA	24A		7.5
JUNF32024S-MA	24A		3	JUNF34024S-MA	24A		10
JUNF32024S-MA	24A		5.4	JUNF34048S-MA	48A		15
JUNF32048S-MA	48A		7.5	JUNF34048S-MA	48A		20
JUNF32048S-MA	48A		10	KMF370A	70A		25
JUNF32070S-MA	70A		15	KMF370A	70A		30
JUNF32070S-MA	70A		20	KMF3100A	100A		40
				KMF3100A	100A		50
				KMF3150A	150A		60
			KMF3180A	180A	75		

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

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



TECO SERVO

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



Distributor

INVERTER

7200MA Series



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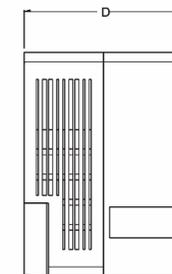
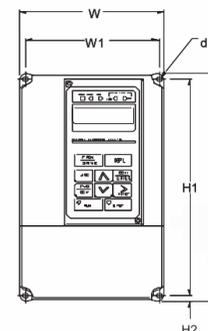


7200MA Series



Dimensions

Voltage	Max. applicable motor output	Mounting Dimension (mm)			External Dimension (mm)			Weight (Kg)
		W1	H1	H2 (NEMA1)	W	H (NEMA1)	D	
220V 1φ/3φ	1	122	207	5	132	217	143.5	2.3
	2							
	3	126	266	6.8	140	279.5	176.5	4.3
	5							
	7.5	192	286	7	211.2	300	215	5.7
220V 3φ	15							12
	20	245	340	10	265	360	225	13
	25							
	30	Top 210	530	10	553	647	277	31
	40	Bottom 180		(67)	269	(647)	277	32
	50							
	60	Top 250	630	10	308	653	282	47
	75	Bottom 220		(67)		(747)		
440V 3φ	1	122	207	5	132	217	143.5	2.3
	2							
	3	126	266	6.8	140	279.5	176.5	4.3
	5.4							
	7.5	192	286	7	211.2	300	215	5.7
	10							
	15							12
	20	245	340	10	265	360	225	13
	25							
	30							
	40	Top 210	530	10	553	647	277	31
	50	Bottom 180		(67)	269	(647)	277	32
	60	Top 250	630	10	308	653	282	47
75	Bottom 220		(67)		(747)			

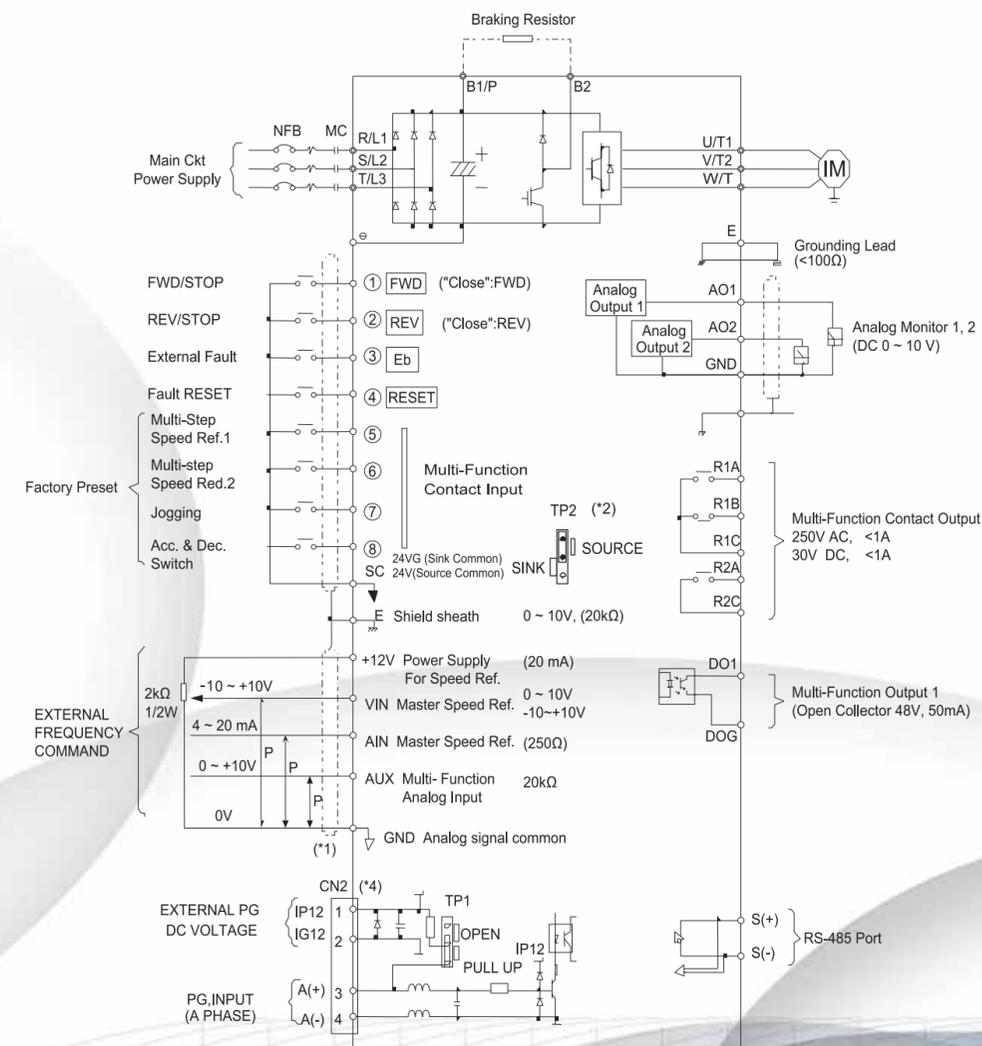


NEMA4 TYPE : 1HP~20HP								
Voltage	Max. applicable motor output	Mounting Dimension (mm)			External Dimension (mm)			Weight (Kg)
		W1	H1	D	W	H	D	
220V 1φ/3φ	1	115	315	M6	198	335	217	6.3
	2							
	3							7.5
	5							
	7.5	140	440	M6	223	460	245	16
220V 3φ	10							
	15							
	20							
	30							
	40	115	315	M6	198	335	217	6.3
	50							7.5
	7.5	140	440	M6	223	460	245	16
	10							
15								
20								

Model Designation

Series	Keypad	Enclosures and mountings	Max. applicable motor capacity (HP)	Rated Voltage	Hardware Information	UL Information	Remark
JNTM	BG	BB	0001	AZ	S	-	-
7200MA	BG: LCD digital operator (CE mark)	BB: Enclosed, wall-mounted type (NEMA-1) BA: Open chassis type (IP00) BC: NEMA4 Type	0001 : 1HP } } 0075 : 75HP	JK: 220V, 60Hz (200V, 50Hz) AZ: 440V, 60Hz (380V, 50Hz)	- : Standard type S: 220V/440V, 1~2HP compact size type A: 220V/440V, 7.5~10HP Ver.2 type	- : Standard type U: UL/CUL standard	- : Standard type 2: Ver.2 type

Connection Diagram



- (*1) Shield Wire, Twisted Wire
 - (*2) The terminal ①~⑧ can be set as SINK or SOURCE when setting ①~⑧ as sink, the jumper of TP2 must be set to SINK position, and set to SOURCE position for source type input.
 - (*3) For 220V 25~40HP, 440V 25~75HP inverter, VIN Ref. can be set in two input methods as 0~+10V or -10~+10V
 - (*4) The terminal A(+), A(-) can be the input terminal of Pulse input Frequency Command, and the jumper of TP1 must be set to OPEN position Pulse Input Frequency range; 50~32KHz, Voltage range; 3~12V, input impedance 2.7Ω
 - (*5) The terminal arrangement
- | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|------|------|-----|-----|-----|-----|------|------|------|-----|-----|-----|
| 24V | 1 | 3 | 5 | 7 | 24V | VIN | AIN | AUX | DO1 | DOG | IP12 | A(+) | A(-) | | | |
| E | 2 | 4 | 6 | 8 | +12V | -12V | GND | A01 | A02 | E | IG12 | S(+) | S(-) | | | |
| | | | | | | | | | | | | R2A | R2C | R1A | R1B | R1C |
- (*6) The control board code No. : 4P101C060002(220V 3~20HP, 440V 3~20HP)
4H300D6740006(220V 25HP, 440V 25~30HP)
4H300D6750001(220V 30~40HP, 440V 40~75HP)

Features

- Graphic LCD operator, used as Copy Unit
- PG built-in interface
- Energy saving
- Automatic torque boost
- Full Range DC injection braking.
- 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).
- MODBUS built-in (PROFIBUS optional)
- Sensorless vector + Auto-tuning
- Pulse train command, +10V ~ -10V analog command (above 220V/440V 25HP).

