TECO INVERTER
7300 CV

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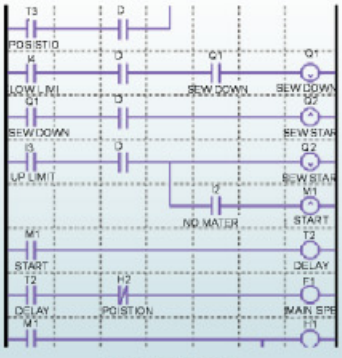


TECO INVERTER 7300 CV

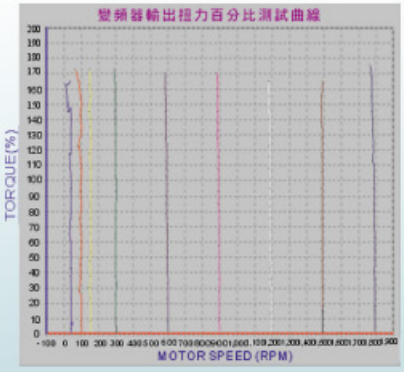


Feature

- Sensorless Vector Control
- 150% Starting Torgue
- Bulit-in PLC Funtion
- LED/LCD Keypad Display
- NPN/PNP Digital Input
- PID Function
- Breaking Transistor built-in
- Copy Unit (Memory pack) Function
- PC (Windows)/ PDA (WinCE) Link Function
- RS-485 Modbus RTU/ASCII mode
- Field Bus Communication Modules (Option)
  - PROFIBUS
  - DeviceNet
- EMC Filter Built-in(Class A)
- Global Standards: UL , cUL , CE

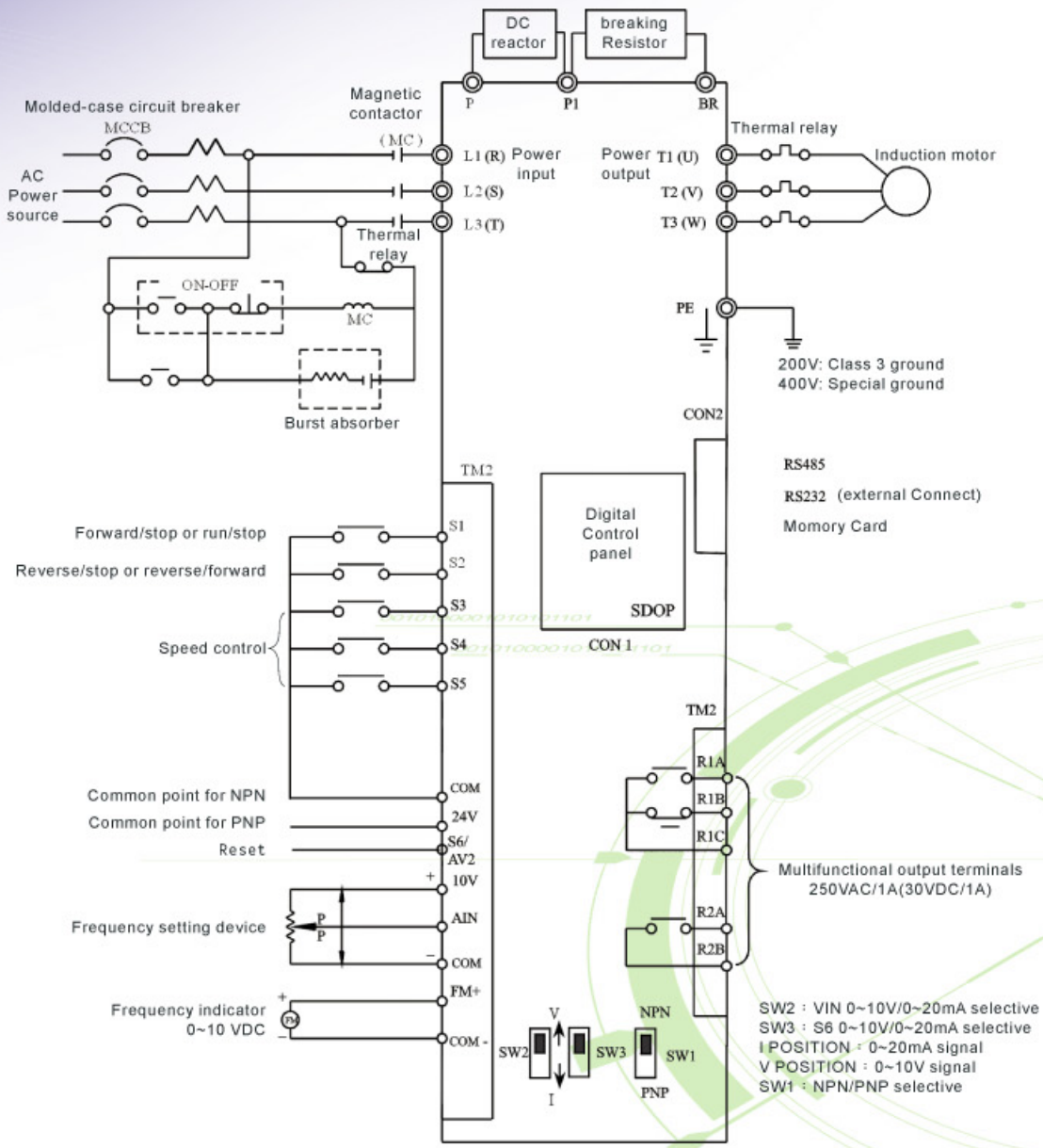


PLC Ladder Program





7300CV Wiring Diagram



Model Number

JNTH	BC	BA	0001	AC	—	U	F
Series	**Keypad Pandl**	**Enclosure**	**Horsepower**	**Phase of Input Power**		**UL Approval**	**Noise Filter**
	BC : LED*	BA:	R500 : 0.5 HP	AC: Single phase 220V		U: Yes	Blank: None
	BG : LCD*	Open	0001 : 1.0 HP	BC: Three phase 220V			F: Built -in
	BL : Blind*	chassis	0002 : 2.0 HP	BE: Three phase 440V			
			0003 : 3.0 HP				
			0005 : 5.0 HP				
			7R50 : 7.5 HP				
			0010 : 10.0 HP				
			0015 : 15.0 HP				

*BC:LED Standard
BG:LCD/Blind Customize

7300CV Specifications

Model	Single phase, 200~240V model JNTHBCBA□□□□AC-U (F)				Three phases, 200~240V model JNTHBCBA□□□□BC-U						
	R500	0001	0002	0003	R500	0001	0002	0003	0005	7R50	0010
Horsepower (HP)	0.5	1	2	3	0.5	1	2	3	5	7.5	10
Suitable Motor Capacity (KW)	0.4	0.75	1.5	2.2	0.4	0.75	1.5	2.2	3.7	5.5	7.5
Rated Output Current (A)	3.1	4.5	7.5	10.5	3.1	4.5	7.5	10.5	17.5	26	35
Rated Capacity (KVA)	1.2	1.7	2.9	4.0	1.2	1.7	2.9	4.0	6.7	9.9	13.3
Max. Input Voltage	Single Phase: 200~240V +10% -15% , 50/60HZ ± 5%				Three Phases: 200~240V +10% -15% , 50/60HZ ± 5%						
Max. Output Voltage	Three phases: 0~240V				Three phases: 0~240V						
Input Current (A)	8.5	12	19	27	4.5	6.5	11	15.4	20	29	40
Net Weight / with Filter (KG)	1.2/1.3	1.2/1.3	1.5/1.8	1.9/2.3	1.2	1.2	1.2	1.75	1.9	5.6	5.6
Allowable momentary power loss time (second)	1.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0

Model	Three phases, 380~480V model JNTHBCBA□□□□BE-U (F)						
	0001	0002	0003	0005	7R50	0010	0015
Horsepower (HP)	1	2	3	5	7.5	10	15
Suitable Motor Capacity (KW)	0.75	1.5	2.2	3.7	5.5	7.5	11
Rated Output Current (A)	2.3	3.8	5.2	8.8	13.0	17.5	25
Rated Capacity (KVA)	1.7	2.9	4.0	6.7	9.9	13.3	19.1
Max. Input Voltage	Three phases: 380~480V +10% -15% , 50/60HZ ± 5%						
Max. Output Voltage	Three phases: 0~480V						
Input Current (A)	4.2	5.6	6.0	10.2	15	20.5	30.2
Net Weight / with Filter (KG)	1.2/1.3	1.2/1.3	1.8/2.2	1.8/2.2	5.6/6.6	5.6/6.6	5.6/6.6
Allowable momentary power loss time (second)	1.0	1.0	2.0	2.0	2.0	2.0	2.0

	ITEM	7300CV TYPE
	Control mode	V/F or Sensorless Vector Control
Frequency Control	Range	0.1~650.0Hz
	Start control torgue	150% / 1Hz (Vector mode)
	Speed control range	1:50 (Vector mode)
	Speed control precision	±0.5% (Vector mode)
	Setting resolution	Digital: 0.01Hz (Note *1); Analog: 0.06Hz/60Hz (10bits)
	Keypad setting	Set directly with ▲▼ key or the VR on the keypad
	Display function	Four digital LED (or 2x16 LCD) and status indicator; display frequency/ speed/ line speed/ DC voltage/ Output voltage/ Current/ Rotation direction/ Inverter parameter/ Trouble Log/ Program Version
	External signal setting	1. External variable resistor / 0-5V / 0-10V / 4-20mA / 5-0V / 10-0V / 20-4mA 2. Performs up/down controls, speed control or automatic procedure control with multifunctional contacts on the terminal block (TM2)
	Frequency limit function	Respectively setting upper/lower frequency limits and three-stage prohibited frequencies
General Control	Carrier frequency	2~16kHz
	V/F pattern	18 fixable patterns, 1 programable pattern
	Acc/Dec control	Two-stage Acc/Dec time (0.1~3,600 seconds) and two-stage S curve
	Multifunctional analong output	5 functions (refer to description on 8-00/8-01)
	Multifunctional input	28 functions (refer to description on 5-00/5-06)
	Multifunctional output	15 functions (refer to description on 8-02/8-03)
	Digital input signal	NPN/PNP toggle
	Other function	Momentary Power Loss Restart, Speed Search, Overload Detection, 8 Preset Speeds. Acc/Dec Switch (2 Stages), S Curve, 3-wire Control, PID Control, Torque Boost, Slip Compensation, Frequency Upper/ Lower Limit, Auto Energy Saving, Modbus Slave and PC/PDA Link, Auto Restart, Built-in PLC Function.
	Communication control	1. Control by RS232 or 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%, the model built-in braking transistor and connected braking resistor is 100%
	Operation temperature	-10~50℃ (note *2)
	Storage temperature	-20~60℃
	Humidity	0~95% Relative Humidity (Non-condense)
	Vibration	1G (9.8m/s^2)
	EMC	Comply with requirement EN 61800-3 with optional filter
	LVD	Comply with requirement EN 50178
	Enclosure	IP 20 (Nema 1 by external box attached)
	Safety level	UL 508C
Protective Functions	Overfoad protection	The relays to protect the motor (the curve can be set) and the inverter(150% / 1min)
	FUSE protection	The motor stops after FUSE melt
	Over voltage	200V class: DC Voltage > 410V 400V class: DC Voltage > 820V
	Under voltage	200V class: DC Voltage < 190V 400V class: DC Voltage < 380V
	Momentary power loss terminal	Stop for more than 15ms-power-loss can be restarted with Speed Search after momentary power loss in Max. 2 sec
	Stall prevention	Stall prevention for Acceleration / Deceleration / Operation
	Short-circuit output terminal	Electronic Circuit Protection
	Grounding fault	Electronic Circuit Protection
	Other funtion	Protection for overheating of heat sink, over torque detection, error contact control, reverse restriction, restrictions for direct start after power up and error recovery, parameter lock up.

Note 1: The setting resolution of above 100Hz is 0.1Hz when controlled with operation keypad, and 0.01 Hz when controlled using computer (PC) or programmable controller (PLC).
Note 2: -10~50°C in distributor (without dustproof cover / paster), -10°C~40°C outside distributor (with dustproof cover / paster).

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Inverter Dimension

Models		IP 20 Enclosure (mm)				
		W	H	D	W1	H1
JNTHBCBA-	R500AC/BC 0001AC/BC 0002BC	90	163	147	78	150
	0002AC 0003AC/BC 0005BC	128	187	148	114.6	170.5
	7R50BC 0010BC	186	260	195	173	244
	0001BE 0002BE	90	163	147	78	150
	0003BE 0005BE	128	187	148	114.6	170.5
	7R50BE 0010BE 0015BE	186	260	195	173	244

Braking Resistor

Resistor Model		Inverter Capacity	Specification of brake resistor W	Ω	Brake resistor ED%	Brake torque %
JNBRN2-	201S	R500AC/BC	60	200	8	214
	201S	0001AC/BC	60	200	8	117
	202S	0002AC/BC	150	100	10	117
	203S	0003AC/BC	200	70	9	112
	205S	0005BC	300	40	8	117
	208S	7R50BC	500	25	8	123
	210S	0010BC	600	20	8	117
	401S	0001BE	60	750	8	123
	402S	0002BE	150	400	10	117
	403S	0003BE	200	250	8	123
	405S	0005BE	300	150	8	123
	408S	7R50BE	500	100	8	123
	410S	0010BE	600	80	8	117
JNTLKEB-1500W		0015BE	1500	40	8	149

Filter

Model	Rated	Inverter Model / CLASS	
		CLASS A	CLASS B
FS6146 - 11 - 07	1Ø170 - 264V / 11A	JNTHBCBA - R500 / 0001 - AC - U	JNTHBCBA - R500 / 0001 - AC - UF
FS6146 - 27 - 07	1Ø170 - 264V / 27A	JNTHBCBA - 0002 / 0003 - AC - U	JNTHBCBA - 0002 / 0003 - AC - UF
FS6147 - 8.9 - 07	3Ø170 - 264V / 8.9A	JNTHBCBA - R500 / 0001 / 0002- BC - U	NA
FS6147 - 19 - 07	3Ø170 - 264V / 19A	JNTHBCBA - 0003 / 0005 - BC - U	NA
FS6147 - 39 - 07	3Ø170 - 264V / 39A	JNTHBCBA - 7R50 / 0010 - BC - U	NA
FS6149 - 4.6 - 07	3Ø323 - 528V / 4.6A	JNTHBCBA - 0001 / 0002 - BE - U	JNTHBCBA - 0001 / 0002 - BE - UF
FS6149 - 10 - 07	3Ø323 - 528V / 10A	JNTHBCBA - 0003 / 0005 - BE - U	JNTHBCBA - 0003 / 0005 - BE - UF
FS6149 - 28 - 07	3Ø323 - 528V / 28A	JNTHBCBA - 7R50 / 0010 / 0015- BE - U	JNTHBCBA - 7R50 / 0010 / 0015- BE - UF

Extension Cable

Extension Cable Models	Digital Operator Modesl	Inverter Models
JNSW30P5 (0.5M)	JNSDOP - 01 JNSDOP - 02	JNTHBCBA - R500 - 0010AC / BC 0001 - 0015BE
JNSW3001 (1M)		
JNSW3002 (2M)		
JNSW3003 (3M)		
JNSW3005 (5M)		

Option Card

- JNSIF - 232 (RS-232)
- JNSIF - 485 (RS-485)
- JNSIF - MP(Memory pack)



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