



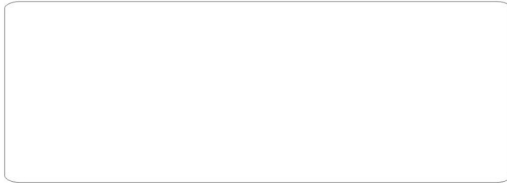
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Vietnam	Ho Chi Minh City	Egypt	Cairo
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Manufacture • sales

TECORP TECHNOLOGY

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Due to ongoing product modification/improvement,ABS subject to change without notice.

Vectorque™ AC Motor Drive

Universal Series:

V9 series AC motor drive of high performance with vector control / with torque control
V8 series AC motor drive of high performance with Senseless vector control
V7 series AC motor drive of common performance



Introduction

Tecorp Electronics Co., Ltd. is a high-technology Corporation, which possesses world-advanced vector control technology and torque control technology, and makes effort in research, manufacture, sale and service of low voltage AC drive product. The corporation has passed IS9001 Quality Management System Certificate, CE certificate.

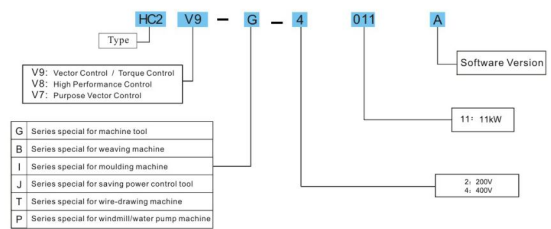
With most experiential R&T team in China, constant technical innovation and wide international communication, the corporation has controlled different core technology. The corporation, which has met international criteria and aims the demands in different conditions and industries in China, further enhances the design of product's reliability and environmental adaptability to meet different level's requirement.

V&T Frequency Converter provides an overall product platform in improvement of clients' equipments performance, decrease of cost and realization of clients' requirements.

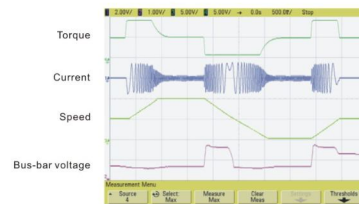


- Advanced Technology
- Prominent Quality
- Sincere Service
- Meeting Demand of Clients

Product Type Description



Prominent Performance of Product



0Hz → Forward 50Hz → 0Hz → Reverse 50Hz →
0Hz of Short acceleration and deceleration speed in four of Quadrant Running

Technical Specifications

Table with 4 columns: Control mode, Vector control with PG*, Vector control without PG, V/F Control. Rows include Startup torque, Speed adjusting range, Torque control, Torque precision, Torque response time, Key functions, Frequency setting mode, Acceleration/Deceleration, DC brake capacity, Magnetic flux brake, Multi functional M key, etc.

Note: * indicate the functions only for V9 series

Universal Series

V8-G/P-40, V9-G/P-40, Three-phase 400V Constant torque/heavy-duty

Technical specifications table for V8-G/P-40 and V9-G/P-40 series, including motor power, rated current, overload capacity, and cooling mode.

V7-P-40, Three-phase 400V Variable torque / light-duty

Technical specifications table for V7-P-40 series, including motor power, rated current, overload capacity, and cooling mode.

Note: * V-G-4090/P4110, V7-P-4110 and above products are equipped with external DC reactor as standard

Universal Series

V8-G-20, V9-G-20, Single/Three-phase 200V Constant torque/heavy-duty

Technical specifications table for V8-G-20 and V9-G-20 series, including motor power, rated current, overload capacity, and cooling mode.

Note: * V-G-23P7A and above power class products are three phase 200V, which can be customized.

Optional Accessories

Table listing optional accessories such as Built-in brake unit, Monitor software, PG01 feedback card, etc., along with their product codes and functions.

Outline and Mounting Dimension

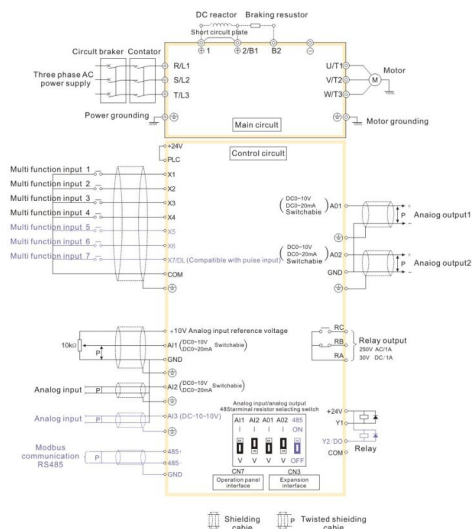


V7-P-4011A and less class, V-G-22P2A and less class, V-G-47P5A/P4011A and less class, V7-P-4015A and less class, V-G-4011A/P4015A and less class

Table showing outline and mounting dimensions (mm) and rough weight (kg) for various product codes.

Note: V1 indicates V8 or V9 series

Terminal Wiring



Take V9-G-45P5 type for example

Main Circuit Terminal Function

V□-G-40 P7A / P41P5A ~ V□-G-4015A / P4018A · V□-G-20□□ · V7-P-41P5A ~ V7-P-4018A

R/L1	S/L2	T/L3	⊕1	⊕2/B1	B2	⊖	U/T1	V/T2	W/T3
POWER			OPTION			MOTOR			



V□-G-4018A / P4022A ~ V□-G-4075A / P4090A · V7-P-4022A ~ V7-P-4090A

R/L1	S/L2	T/L3	⊕1	⊕2	⊖	U/T1	V/T2	W/T3
POWER			OPTION			MOTOR		



V□-G-4018A / P4022A ~ V□-G-4075A / P4090A (With built-in brake unit)

R/L1	S/L2	T/L3	B1	B2	⊖	U/T1	V/T2	W/T3
POWER			OPTION			MOTOR		



V□-G-4090A / P4110A · V7-P-4110A and above class adopts the wiring mode of the top in and bottom out

POWER								
R/L1	S/L2	T/L3						

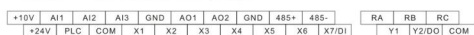
OPTION						U/T1 V/T2 W/T3		
⊕1	⊕2	⊖						

Terminal symbol	Terminal name and function description
R/L1, S/L2, T/L3	Three-phase AC input terminal
⊕1, ⊕2/B1 or ⊕1, ⊕2	DC reactor connecting terminal V-G-4090 and less class is with copper bus of short circuit
⊕2/B1, B2 or B1, B2	Connect terminal of brake resistor
⊕2/B1, ⊕ or ⊕2, ⊖	DC power input terminal; DC input terminal of external brake unit
U/T1, V/T2, W/T3	Three-phase AC output terminal
⊖	Grounding terminal PE

Note: V□ indicates V8 or V9 series

Control Circuit Terminal

V8 series and V9 series control circuit terminal



V7 series control circuit terminal



Control Circuit Terminal Function

Type	Terminal symbol	Description	Technical specification
Terminal	485+	485 positive terminal	Rate: 4800/9600/19200/38400/57600bps/Up to 32 sets of equipment can be paralleled. If the number exceeds 32 relay shall be used. Maximum distance: 5000m (adopt standard twisted shielding cable)
	485-	485 negative terminal	
	GND	485 grounding	Internal isolated with COM
Panel	485	485 port of operation panel	Connection of communication with host computer, it is the same as terminal 485
	CN7	485 port of operation panel	The maximum distance is 1.5m for the connection of the operation panel (adopts standard twisted non-shielding network cable)
Digital input	+24V	+24V	24V±10%; Maximum load: 200mA with overload and short circuit protection
	PLC	Common terminal of multi-functional input terminal	Short circuit with +24V upon the factory setting
	X1~X6	Multi-functional input terminals	Input specification: 24VDC, 5mA Frequency range: 0~200Hz Voltage range: 24V±20%
	X7/DI	Multi-functional input or pulse input	Multi-functional input: the same as X1~X6 Pulse input: 0.1Hz~50kHz; Voltage range: 24V±20%
	COM	+24V GND	Internal isolation with COM
	Y1	Open collector output	Voltage range: 24V±20%; maximum input current: 50mA
Digital output	Y2/DO	Open collector or pulse output	Open collector: the same as Y1 Pulse output: 0~50kHz; Voltage range: 24V±20%
	COM	Common terminal of open collector output	Internal isolation with COM
	+10V	Analog input reference voltage	10V±3% of internal isolation with COM Maximum output current: 10mA, with short circuit and overload protection
Analog input	AI1	Analog input channel 1	0~20mA; Input impedance 500Ω; maximum input current: 30mA
	AI2	Analog input channel 1	0~10V; Input impedance 20kΩ; maximum input voltage: 15V Resolution: 12bit (0.025%)
	AI3	Analog input channel 3	-10V~10V; Input impedance 20kΩ Resolution: 12bit (0.025%), maximum input voltage: ±15V
	GND	Analog GND	Internal isolation with COM
Analog output	AO1	Analog output channel 1	0~20mA; Input impedance 200~500Ω
	AO2	Analog output channel 2	0~10V; allowable output impedance ≤10kΩ Output precision: 2%; resolution: 10bit (0.1%), with short circuit protection function
	GND	Analog GND	Internal isolation with COM
Relay output	RA/RB/RC	Relay output	RA~RB: Normal close, contact capacity: 250VAC/1A · 30VDC/1A RA~RC: Normal open, contact capacity: 250VAC/1A · 30VDC/1A

