Technical Specifications of E5-H series PID closed loop control & vector control frequency inverters (variable speed drives, variable frequency drives)

		PID feedback closed					
	Control mode	loop control, vector					
		control 1					
Control	Startup torque	0.50Hz 180%					
features	Speed adjustment range	1:100					
	Speed stabilization	± 0.5%					
	precision						

		Undervoltage					
		adjustment, switching of					
		AC operation grounding,					
		protective grounding and					
		DC operation grounding,					
		rotation speed tracing,					
		torque limitation,					
	Key functions	multi-speed operation					
		(up to 16 speeds),					
Product		auto-tuning, S curve					
		acceleration/deceleration					
functions		, slip compensation, PID					
		adjustment, current					
		limiting control,					
		manual/auto torque					
		increase, current limiting.					
		Operation panel setting,					
		terminal UP/DN setting,					
		host computer					
	Frequency setting mode	communication setting,					
		analog setting AI1 and					
		AI2.					

Frequency range	0.00 ~ 300.00Hz						
Startup frequency	0.00~60.00Hz						
Acceleration/deceleratio n time	0.1~36000s						
Powered braking	Braking unit action						
capability	voltage: 650 ~ 750V						
DC braking capability	DC braking initial frequency: 0.00 ~ 300.0Hz; DC braking current: Constant torque: 0.0 ~ 120.0%, Variable torque: 0. 0 ~ 90.0% DC braking time: 0.0 ~ 30.0s; there is no initial waiting time for the DC braking to realize quick braking						
Magnetic flux braking function	Ongoing action and no action upon deceleration as option, no action upon deceleration at default						

		The unique					
		multifunctional key is					
		used to set the frequently					
	Multifunctional M key	used operations: JOG,					
		emergency shutdown,					
		running command					
		reference mode switch ,					
Unique functions		menu switching					
Tunctions	Multiple menu modes	Basic menu mode, fast					
		menu mode. Menu mode					
		of non-leave-factory					
		value function codes,					
		Menu mode of last					
		changed 10 function					
		codes					

	The standard operation					
	panel can realize the					
	parameter upload,					
Demonster	download and display the					
Parameter copy	copy progress. The user					
	can select to forbid the					
	overwriting of the					
	uploaded parameters.					
	The customer can select					
Displayed/hidden	to display or hide the					
function code	function codes by					
	themselves.					
	485 communication ports					
	support Modbus protocol					
	(RTU). The standard					
RS485 communication	operation panel can					
ports	realize remote control					
	box function with a					
	maximum distance of					
	500m.					

	Button type or shuttle						
	type operation panel						
Operation panel	optional, protection class:						
	IP20 as standard, IP65						
	as option						
	The full series can realize						
Common DC bus	common DC bus supply						
	for several inverters.						
	The full series adopts						
	independent duct design						
Independent duct	and supports the						
	installation of heatsink						
	outside the cabinet						
	Realizing the pow er up						
	auto-detection of internal						
	and peripheral circuits,						
Power-up	including motor						
auto-detection	grounding, abnormal						
	+10V power supply						
	output, abnormal analog						
	input, and disconnection						

	Power supply undervoltage, overcurrent protection,
	overvoltage protection, interference protection,
	abnormal comparison reference input, auto-tuning
	failure, module protection, heatsink overtemperature
	protection, inverter overload protection, motor
	overload protection, peripheral protection, abnormal
	current detection, output to ground short circuit,
Protection	abnormal power failure during operation, abnormal
function	input power, output phase failure, abnormal
	EEPROM, abnormal relay contact, temperature
	sampling disconnection, abnormal +10V power
	supply output, abnormal analog input, motor
	overtemperature (PTC), abnormal communication,
	abnormal version compatibility, abnormal copying,
	terminal mutual exclusion detection failure, hardware
	overload protection
	At rated power, 7.5kW and below power class ≥93%,
Efficiency	45kW and below power class 95%, 55kW and
	above power class ≥98%

Environmen t	Operating site	The product shall be mounted vertically in the electric control cabinet with good ventilation. Horizontal or other installation modes are not allowed. The cooling media is the air. The product shall be installed in the environment free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, steam and drip.					
	Ambient temperature	 −10 ~ +40°C, derated at 40 ~ 50°C, the rated output current shall be decreased by 1% for every temperature rise of 1°C 					
	Humidity	5 ~ 95%, no condensing					

	0 ~ 2000m, derated							
	above 1000m, the rated							
Altitude	output current shall be							
	decreased by 1% for							
	every rise of 100m							
	3.5mm,2~9Hz; 10							
Vibration	m/s²,9~200Hz; 15							
	m/s²,200~500Hz							
Storage temperature	−40~+70°C							

Power (kW)		0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75
	Motor power (kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75
	Voltage (V)		Three-phase 0 to rated input voltage													
Output	Rated current (A)	2.5	3.8	5.5	9	13	17	24	30	39	45	60	75	91	112	150
-	Overload capability	150%	150% 1 minute, 180% 10 seconds, 200% 0.5 second, interval: 10 minutes (inverse time lag feature)													
	Rated voltage/frequency					Three	e-phas	se 380\	V/480\	/; 50Hz	z/60Hz					
Input	Allowable voltage range	3	23V ~	528V; \	/oltage	e unba	lanced	lness ≤	3%; a	llowab	le freq	uency f	luctuat	tion: ±	5%	
	Rated current (A)	3.5	6.2	9.2	14.9	21.5	27.9	39	50.3	60	69.3	86	104	124	150	201
I	Braking unit			Built-i	n as s	tandar	d				E	Built-in	as opt	ion		
Pr	otection class			-				IP	20							
C	ooling mode	Self-c	cooling		1				For	ced air	conve	ection c	cooling	1		
Power (kW)		90	110	132	160	185	200	220	250	280	315	355	400	450	500	
	Motor power (kW)	90	110	132	160	185	200	220	250	280	315	355	400	450	500	
	Voltage (V)					Thre	e-pha	se 0 to	rated	input v	oltage					
Output	Rated current (A)	176	210	253	304	350	380	426	470	520	600	650	690	775	860	
						150% 1 minute, 180% 10 seconds, 200% 0.5 second, interval: 10 minutes (inverse time lag feature)								ime		
	Rated voltage/frequency		Three-phase 380V/480V; 50Hz/60Hz													
Input	Allowable voltage range	3	323V ~ 528V; Voltage unbalancedness ≤3%; allowable frequency fluctuation: ±5%													
	Rated current (A)	160*	196*	232*	282*	326*	352*	385*	437*	491*	580*	624*	670*	755*	840*	
I	Braking unit	External braking unit needed														
Pr	otection class	IP20														
С	Cooling mode Forced air convection cooling															

EcoDriveCN drives

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V&T Technologies Co., Ltd. (EcoDriveCN drives) is a leading manufacturer & supplier of motor control, energy efficiency & motion control, produces & supplies AC variable speed drive (frequency inverter), servo drive, motor soft starter, reactors (chokes), EMI filter, sine wave filter (sinus filter), du/dt filter, brake resistors, brake units, other power electronics. http://www.EcoDriveCN.com/about.htm

The drives are widely applied in plastic injection molding machine, machine tools, air compressor, water supply, civil engineering, conveyor belt, sewage disposal, extruder, fan and pump, HVAC, food and beverage industry, mining industry... <u>http://www.EcoDriveCN.com/application.htm</u>

From 200VAC to 1140VAC, from 0.4KW to 3550KW (0.5HP – 4735HP), we are competing with ABB & Siemens in the market of power electronics.

Advantages:

Failure rate < 0.15%, similar as Siemens, Emerson Control Techniques, ABB, Eaton, Schneider, Allen Bradley, Lenze, Yaskawa, Fuji;

Authorized CE by ECMG. Under the audit of NVLAP. NVLAP Lab code: 200068-0. ISO/IEC 07025:1999, ISO 9002:1994;

18-month warranty period;

Delivery lead time: 3-5 days;

Supply to REGAL, Ingersoll Rand, Foxconn, Tata Group...

Contact information of our company: http://www.EcoDriveCN.com/contact.htm