

Specifications

Voltage class		3300V ¹⁾											
3.3kV output capacity (kVA)		200	300	400	500	600	750	1000	1250	1500	1750	2000	2250
Rated output current (A)		35	53	70	88	105	132	175	219	263	307	350	394
Motor power output (kW) ²⁾		155	245	325	410	490	620	835	1040	1270	1500	1710	1940
Voltage class		6600V ¹⁾											
6.6kV output capacity (kVA)		400	600	800	1000	1200	1500	2000	2500	3000	3500	4000	4500
Rated output current (A)		35	53	70	88	105	132	175	219	263	307	350	394
Motor power output (kW) ²⁾		330	495	675	835	1000	1270	1700	2130	2590	3020	3450	3930
Output	Output frequency (Hz)	50 or 60Hz											
	Overload capacity	120%, 60 sec											
Input	Main circuit	3phase 3300V, 50/60Hz or 3phase 6600V, 50/60Hz											
	Control circuit	3phase 220V or 440V, 50Hz or 60Hz											
	Tolerance	Voltage: $\pm 10\%$, Frequency: $\pm 5\%$											
Power factor of main power supply		Approx 95% or more at normal operating speed											
Efficiency		Approx 96% (Including transformer)											
Control specification	Control method	Sensorless vector control + Multi-level sinusoidal PWM (Pulse Width Modulation)											
	Frequency precision	$\pm 0.5\%$ of maximum output frequency (Analog input)											
	Torque characteristics of load	Square torque load, Constant torque load											
	Acceleration/deceleration time	0.1~3600 sec (depend on GD ² of load machine)											
	Main control function	Soft stall (Automatic load reduction control during overload), Ride-through function (0-83ms, non-torque control), specific frequency evasion function, total run time display function, non-stop operation during speed reference loss, multiple Acc./Dcc. rate setting											
	Main protective function	Current limit, overcurrent, overvoltage, overload, undervoltage, ground fault, CPU error, cooling fan abnormal, control power abnormal											
	Data transmission	2ea among RS485/232/modbus (standard), ethernet, profibus-DP <i>Option</i>											
Operation board	Display	Color LCD graphic display: Color TFT touch method 5 inch LCD											
	Control method	Start, stop, reset fault, interlock (Emergency stop)											
Signal interface	Analog	Input: 4 channel (DC 0-10V or DC 4-20mA) Output: 4 channel (DC 0-10V or DC 4-20mA)											
	Digital	Input: 16 channel (Dry contact) Output: 8 channel (Dry contact: AC 250V 5A or DC 30V 5A)											
Main reliability function (<i>Option</i>)	Cell bypass	If an inverter cell functions abnormally, continuous operation is possible via reduced power output											
	Control device redundancy	When main control device is abnormal, auxiliary control device is communicated with optical signal transmitter											
	Control power redundancy	In case of power failure, it is possible to continuous operation without UPS, because AC and DC can be received together for control input power											
Input transformer		Temperature class H, dry type, tapping range $\pm 5\%$, only for N5000											
Construction	Protection degree of enclosure	IP20 (IEC-529)											
	Panel construction	Free standing, front maintenance type, door handle key attached											
	Cooling	Air cooled by ventilation fans mounted on panels											
	Panel color	Munsell No. 5Y 7/1											
Ambient constructions	Ambient temperature	0 - 40°C											
	Humidity	Max 85% (No condensation)											
	Altitude	1000m above sea level or less											
	Vibration	0.5G or less at 10-50Hz											
	Installation	Indoors											
Applications		Fan, blower, pump, compressor, extruder, mixer etc. (Non-Regenerative devices)											
Standards		Electrical performance: IEC Components and others: KS											

※ 1) As for the non-standard voltage (3.0kV, 4.16kV, 6.0kV) motor, please contact Hyundai Heavy Industries Co., Ltd.

2) Based on Hyundai Heavy Industries Co., Ltd.'s standard squirrel type 4 pole motors