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## **N700E** Series **AC DRIVE**

### Features:

- Enhanced control ability with improved sensorless vector control
- Accurate speed control with advance motor tuning function
- Improved PID control
- Extended protection function for the safety of operation
- Built in Regenerative Braking Circuit
- Built in communication circuit for RS485
- Compact Size
- International Certification, CE & UL/cUL
- Eco-friendly (Compliant with RoHS)



### Optional Features:

- Input Reactor
- Output Reactor
- DC reactor
- Radio Noise Filter (Zero-Phase Reactor)
- Noise Filter
- Input Radio Noise Filter (Capacitor Filter)
- Output Noise Filter
- LCR Filter

**'SUVIK' along with 'HYUNDAI' inverter takes motion performance to new level**

# 400Vclass

Model N-700E Series		055HF	075HF	110HF	150HF	185HF	220HF	
Enclosure		IP20 (NEMA1)						
Applicable motor (4 pole,kW)		5.5	7.5	11	15	18.5	22	
Rated capacity (kVA)	380V	7.9	10.5	15.1	21.1	25.0	29.6	
	480V	10.0	13.3	19.1	26.6	31.6	37.4	
Rated input voltage (V)		3-phase (3-wires), 380~480 V(±10%), 50Hz / 60Hz±5%						
Rated output voltage (V)		3-phase, 380~480 V (According to supply voltage)						
Rated output current (A)		12	16	23	32	38	45	
Control Method		Space vector modulation PWM system						
Output frequency range		0.01~400Hz						
Frequency accuracy		Digital command ± 0.01% for Max. frequency, analog frequency ± 0.1% (25 ± 10°C)						
Frequency resolving power		Digital setting : 0.01HZ, Analog setting : Max. frequency / 1,000						
Voltage/frequency characteristic		V/f control (constant torque, reduced torque), free V/f control						
Overload current rate		150%, 60sec						
Acceleration/Deceleration		0.01~3000.0 sec (Director, curve setting)						
Braking	Dynamic braking (Short-time)		BRD circuit built-in (The discharge resistance is optional)					
	Minimum value of resistor (Ω)		70	50	50	30	20	20
	DC Braking		On starting and decelerating by stop command, inverter operates under operation setting frequency. Or inverter operates with external input (Breaking power, time, frequency can be set.)					
Input signals	Frequency setting	Operator	Set by Δ key / ▽ key					
		External signal	Input voltage : DC0~+10V, (Input impedance 10KΩ), Input current : 4~20mA (Input impedance 250Ω)					
		External port	Setting with RS485 communication					
	Run / Stop	Operator	Run / Stop key (Forward / Reverse function mode)					
		External signal	Forward run / stop (1a connect, 1b selection possibility,)					
		External port	Setting with RS485 communication					
Intelligent input terminal		Selection from 15 intelligent input functions						
Output signals	Intelligent output terminals		Selection from 6 intelligent output function					
	Frequency monitor		Analog meter (DC0~10V full scale. Max 1mA) Output frequency, output current and output voltage					
	Alarm output contact		OFF for inverter alarm (normally closed contact output) (Transition to ON for alarm) / Intelligent output Terminal					
	Other functions		AVR function, curved accel / decel. profile, upper and lower limiters, 16-stage speed profile, fine adjustment of start frequency, carrier frequency change (0.5 to16Khz), frequency jump, gain and bias setting, process jogging, electronic thermal level adjustment, retry function, trip history monitor, 2nd setting selection, auto tuning, V/F characteristic selection, automatic torque boost, frequency conversion display, USP function					
Protection function		Over current, Over load (Electronic thermal), Over voltage, Communication error, Under voltage, Output short circuit detection, USP error, EEPROM error, External error, Ground fault, Over heat						
Standard specification	Ambient temperature		-10~50°C (if ambient temperature is above 40°C, Carrier frequency should be lower than 2.0kHz)					
	Storage temperature		(-20~60°C)					
	Ambient humidity		Below 90% RH (Installed with no dew condensation)					
	Vibration		5.9m/s <sup>2</sup> (0.6G). 10~55Hz					
	Location		Under 1000m above sea level, indoors (Installed away from corrosive gasses dust)					
	Weight (kg)		4.2	4.5	4.5	7	7	7.5
	External Dimention (mm) (W x H x D)		210 x 275 x 168			250 x 390 x 188		

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