



Experience the  
efficiency in motion

## N 700V AC Drive

### Features:

- Advanced sensorless vector control at ultra low speed
- Excellent response speed and torque control performance
- Expansion of multi-speed control function
- Advanced on-line / off-line auto tuning
- Improved DC brake function
- External brake control function for elevators
- High quality voltage and current
- IGBT temperature check

AN ISO 9001:2000 Company

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HEAVY INDUSTRIES CO. LTD.

'SUVIK' along with 'HYUNDAI' inverter takes motion performance to new levels

# 400V Class

Model (N700C - HF)	055HF	075HF	110HF	150HF	185HF	220HF	300HF	370HF	450HF	550HF	750HF	900HF	1100HF	1320HF	
Enclosure	IP20														
Applicable Motor (4 pole, kw)	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	
Rated Capacity (KVA)	400	8.3	11.0	15.9	22.1	26.3	33.2	41.9	50.2	63	76.2	103.2	121.9	150.3	180.1
	480	9.9	13.3	19.1	26.6	31.5	39.9	50.2	60.2	75.8	91.4	123.8	146.3	180.4	216.1
Rated Input Voltage (V)	3-phase 380-480V ( $\pm 10\%$ ), 50/60 HZ ( $\pm 5\%$ )														
Rated Output Voltage (V)	3-phase 380-480V (this corresponds to supply voltage)														
Rated Output Current (A)	12	16	23	32	38	48	58	75	90	110	149	176	217	260	
Control Method	Space vector modulation PWM system														
Output Frequency Range	0.1~400Hz														
Frequency Accuracy	Digital : $\pm 0.01\%$ of Max. frequency, Analog : $\pm 0.2\%$ ( $25 \pm 10^\circ\text{C}$ )														
Frequency Resolution	Digital setting : 0.01HZ, Analog setting : Max. frequency / 4,000														
Voltage/Frequency Characteristic	V/f control (constant torque, reduced torque), free V/f control, sensorless vector control														
Starting Torque	200%, 0.5Hz														
Overload Capacity	150%/ 60sec														
Acceleration/Deceleration Time	0.1~3600. Sec (Linear/curve setting)														
Braking	Dynamic Braking (short-time)	Built-in BRD circuit (the discharging resistor is optional)							External dynamic braking unit (option)						
	Minimum Value of Resistor( $\Omega$ )	70	50	50	30	20	20	12	12	8	8	6	6	6	6
DC Braking		Performs at start ; under set frequency at deceleration, via an external input (braking force, time and temperature frequency)													
Input Signals	Frequency Setting	Operator	Set by up/down key												
		External Signal	Input voltage : DC 0~+10V, -10~-+10V (Input impedance 10K $\Omega$ ) / Input current : 4~20mA(Input impedance 180 $\Omega$ )												
	External Port	Set by RS485 Communication													
	Run/Stop	Operator	Run key/ Stop key (Change FOR/REV by function command)												
External Signal		for Run/Stop (NO/NC selection), REV set by terminal assignment (NO/NC selection), 3-wire input possible													
		External Port	Set by RS485 Communication												
Intelligent Input Terminal		for & 8 I/P terminal assign in 36 Intelligent Input Functions													
Thermistor Input Terminal		1 terminal (PTC characteristics)													
Intelligent Output Terminal		4 open collector output assign in 24 Intelligent Output Functions													
Intelligent Monitor Output Terminal		Analog Voltage (0-10V DC), Analog Current (4-20mA), Pulse Line Output													
Relay Output		2 - Relay Output Assign in 24 Intelligent Output Functions													
Display Monitor		Output Frequency, Output Current, Motor Torque, Scaled Value of Output Frequency, Trip History, I/O Terminal Condition, Input Power, Output Voltage, Motor RPM, IGBT Temp. Monitor													
Main Functions		V/f free-setting (up to 7 points), Frequency Upper/Lower Limit, Frequency Jump, Accel./Decel.Curve Selection, Manual Torque Boost Level/Braking Point Setting, Analog Meter Tuning, Start Frequency Setting, Carrier Frequency Setting, Electronic Thermal, Free-setting, External Start/End Frequency (frequency rate setting), Analog Input Selection, Retry After Trip, Restart After Instantaneous Power Failure, Various Signal Outputs, Reduced Voltage Start, Stall Prevention, Default Value Setting, Automatic Deceleration and Stop at Power Failure, AVR Function, Auto-tuning (Online/Offline)													
Protective Functions		Over-current, Over-voltage, Under-voltage, Electronic Thermal, Temperature Error, Ground Fault Current at Start, Instantaneous Power Failure, USP Error, Phase Loss Error, Braking Resistor Overload, External Trip, Option Error and Communication Error, IGBT Protection													
Applicable Standards		Low voltage directive 72/73/EEC & EMC directive 2004/108/EC, CE, UL, cUL													
Environmental Conditions	Ambient Temp./ Storage Temp./ Humidity	-10~50° / -20~65° / 20~90% RH (non-condensing) Derating of 2% is required per 1°C rise in temp.													
	Vibration	5.9m/S <sup>2</sup> (0.6G), 10~55Hz (5.5~22kW)						2.94m/S <sup>2</sup> (0.3G), 10~55Hz (30~132kW)							
Location		Less than 1000m above sea level, indoors (no corrosive gas nor dust)													
Options		ENCODER Feedback PCB, Profibus PCB													
		Braking unit, AC reactor, DC reactor, EMC filter, Operator cable, Harmonic control unit, Radio noise filter, LCR filter, Braking resistor, Analog manipulation panel, Application control unit													
Operator		OPE-N7 (4-digit LED)													
Weight (kg)	7	15	25	37	51	70	90								
Dimension (mm) (W×H×D)	182×336×205		290×478×240		330×580×250		400×610×260		440×650×271		420×740×320		500×780×320		

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