

Creating unprecedented
drive for motion in control



N100 AC DRIVE

Optional Features

- Digital operator station with display
- Remote operator station with copy function
- EMI / EMC filter by EN standard
- CE standard, UL, cUL compliance
- High frequency noise filter
- Dynamic braking unit
- Input/ Output reactors

Features

- Advance sensor less vector control function
- Optimal motor control through auto-tuning function
- Set point control through PID control loop
- Tripless driving through current suppression at instant impact load
- Remote motor control using exclusive MMI program with Built in RS 485
- High reliability due to latest power module ASIPM / PIM
- Linear, S-Curve, U-Curve, Selection of acceleration, deceleration pattern
- 150% of rated current over load for 60 Seconds
- Frequency setability resolution 0.01Hz
- Versatility of programmable controller due to SINK / SOURCE type signal selection

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

400Vclass

Item		400 V class						
N100		004HF	007HF	015HF	022HF	037HF	055HF	075HF
Output	Applicable motor capacity (kW)	0.4	0.75	1.5	2.2	3.7	5.5	7.5
	Rated output capacity (kVA)	1.1	1.9	3.0	4.2	6.1	9.1	12.2
	Rated output current (A)	1.8	3.4	4.8	7.2	9.2	12.0	16.0
	Rated output voltage (V)	3-phase, 380 ~ 460 V						
	Maximum output frequency (Hz)	400 Hz						
Power supply	Phase, Voltage, Frequency	Three-phase, 380 ~ 460 VAC, 50/60 Hz						
	Power Conditions	Voltage: $\pm 10\%$ / frequency : $\pm 5\%$						
Environment Protection		IP20						
Cooling method		Self cooling	Forced cooling					
Control characteristic	Control system	Space vector PWM control						
	Torque control	V/F control, sensorless vector control						
	Output frequency range	0.01 Hz ~ 400 Hz						
	Frequency setting resolution	Analog	Max. setting frequency + 500 (DC 5 V input) / Max. setting frequency + 1000 (DC10 V, 4 ~ 20 mA input)					
		Digital	0.01 Hz (100 Hz and less), 0.1 Hz (100 Hz or more)					
	Frequency precision	Analog	Within 0.1% of maximum output frequency					
		Digital	Within 0.01% of maximum output frequency					
	Voltage/frequency characteristic	Any base frequency setting possible between 0 Hz and 400 Hz, constant torque or variable torque pattern selectable						
	Overload rating	150% of rated current for 60 sec						
	Starting torque	More than 200% (at 0.5 Hz)						
Torque boost	Manual torque boost can be set between 0 ~ 50%							
Acceleration/deceleration time setting	0.1~3000 sec setting possible							
Acceleration/deceleration pattern	linear, S-curve, U-curve selection possible							
Braking torque	Dynamic	150% (5 sec)						
	DC braking	Operating frequency (0 ~ 10 Hz), operating time (1 ~ 10 sec), operating braking force (0 ~ 50%) variable External DC braking setting possible						
Current stall prevention operation level	Operation current level setting possible (20 ~ 200% variable), enable/disable selection							
Voltage stall prevention operation level	Operation level constant, enable/disable selection							
Frequency setting	Analog	0 to 5VDC, 0 to 10VDC, 4 to 20 mA, External variable resistor (1 k Ω ~ 2 k Ω , 1 W), main unit volume resistor input from control panel						
	Digital							
Protective and warning functions		Overcurrent shut-off, regenerative overvoltage shut-off, undervoltage, output short circuit, temperature abnormality, overload shut-off (electronic thermal), ground fault protection, external trip, communication error, USP error, EEPROM error						
Environment	Ambient temperature	-10°C ~ 40°C (no freezing)						
	Ambient humidity	90%RH or less (non-condensing)						
	Storage temperature	-20°C ~ 60°C						
	Installation area	Indoors without corrosive gases, flammable gases, oil mist or dust						
	Altitude and vibration	Maximum 1,000 m or less above sea level, 5.9 m/s ² or less						
Operator		Standard operator built-in control panel, optional remote operator						
External Dimension (mm) (W X H X D)		115 X 130 X 135	115 X 130 X 135	115 X 130 X 135	150 X 130 X 155	150 X 130 X 155	185 X 250 X 186.5	185 X 250 X 186.5
Weight (kg)		1.2 kg	1.5 kg	1.5 kg	2.0 kg	2.0 kg	5.3 kg	5.3 kg

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