



WORLDWIDE MOTOR CONTROLS  
Variable Frequency Drives  
Hyundai N700E Series High Performance Drives

## MODEL: N700E-004HF

CT (Constant Torque, Heavy Duty)	Rated Power	0.5 HP / 0.4 kW
	Rated Output Current (A)	1.8
Rated Input Voltage	Three Phase 380 ~480 VAC $\pm$ 10% 50/60 Hz $\pm$ 5%	
Rated Output Voltage	Three Phase 380 ~480 VAC (corresponding to input voltage)	
Ambient Temperature	-10 to 50°C (unit can be designed to function outside this range)	
Storage Temperature	-20 to 60°C	
Ambient Humidity	Below 90% RH	
Vibration	5.9N/s <sup>2</sup> (0.6G) 10 to 55Hz	
Location	Under 1000m above sea level, indoors, away from corrosive gasses, dust, etc.	

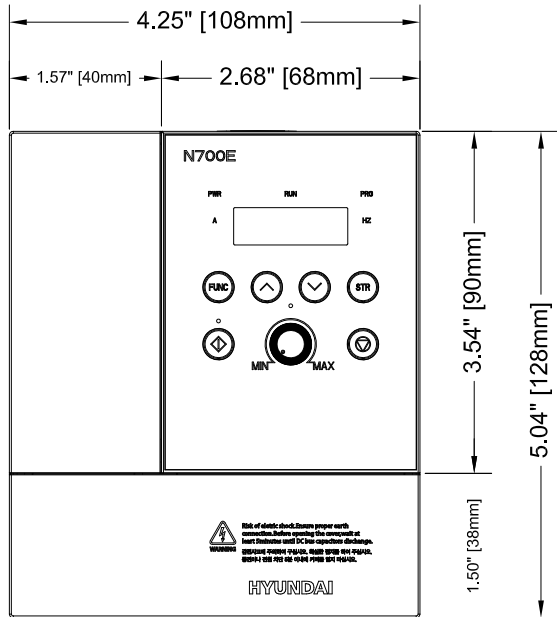


### General Product Specifications

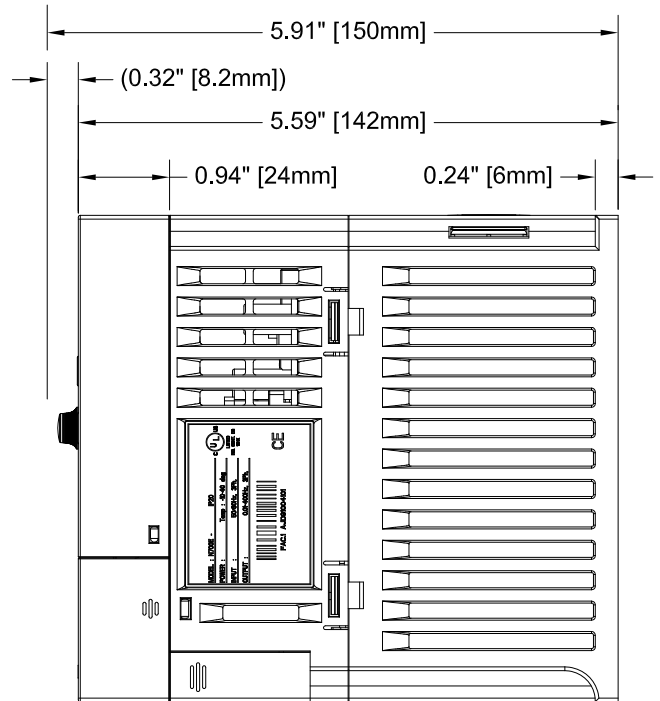
- Sensorless Vector PWM Control Method with V/Hz and Sensorless Vector Control Options
  - 0.01-400Hz Output Frequency Range
  - Frequency Accuracy:  $\pm$  0.01% Digital Reference,  $\pm$  0.1% Analog Reference
  - 0.1-3000 sec Accel/Decel with Selectable Profiles
  - DC Injection Braking
  - Built-in Dynamic Braking
  - IP20 Enclosure Rating
  - Heavy Duty: 150% Overload for One Minute, CT Applications
  - Normal Duty: 120% Overload for One Minute, VT Applications
  - Protective Functions, Including: Overcurrent, Electronic Thermal Overload, Inverter Overload, Braking Resistor Overload, Over-Voltage, Under-Voltage, Input Phase Loss, Output Short Circuit, Ground Fault, External Trips, Temperature Trip, Safety Function (option), Communication Error
  - Auto Tuning
  - PID Control, with Sleep and Wakeup Functions
- And more! Consult your WWE Representative to discuss your application!

### Control I/O

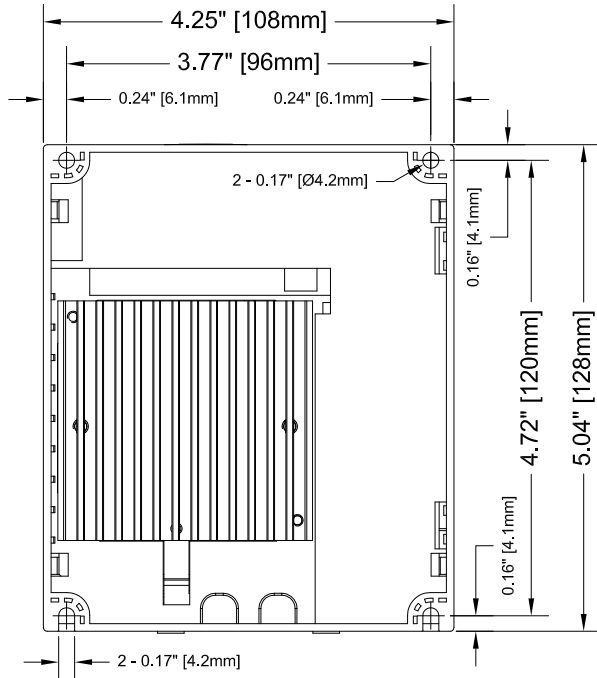
Analog Inputs	2	Input voltage: 0-10VDC (Input impedance 10K $\Omega$ ) Input current: 4-20mA (Input impedance 250 $\Omega$ )
Digital Inputs	6	Intelligent Input Terminal Common I/O Commands: 2-Level Accel/Decel Command (2CH) Multi-speed 1-4 (CF1-4) PID Disable (PIDD) Analog Input Voltage/Current Transferring (AT) PID Integral Reset (PIDIR) External Trip (EXT) Remote UP/DOWN Reset (RS) Forward Direction (FW) Reverse Direction (RV) Free-run Stop (FRS) Soft Lock (SFT) FW/RV (F/R) Start (STA) Jogging Run (JG) Stop (STP) Local Keypad Operation (O/R) Unattended Start Protection (USP) Local Terminal Input Operation (T/R)
Analog Output	1	Output frequency, output current, and output voltage
Digital Outputs	3	1x-Form C relay (Rated AC 250V 2.5A, DC 30V 3.0A); 2x-Open Collector Transistors: RUN (Run signal) FA1 [Frequency arrival signal (at the set frequency)] FA2 [Frequency arrival signal (at or above the set frequency)] OL (Overload advanced notice signal) OD (Output deviation of PID signal) AL (Alarm signal)



FRONT (FACE)



RH SIDE



UNDERSIDE



**N700E-004HF:**  
**380-480VAC +/- 10%**  
**1.8A CONSTANT TORQUE**

**CHASSIS WEIGHT: 2.16LBS (0.98kg)**



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WWE-N700E  
 N700E-004HF  
 DIMENSIONS AND CAPACITIES

CLIENT INFORMATION, PROJECT / DRAWING NOTES:

ENGINEER	JSW	CREATED	04 DEC 14
DRAWN BY	JSW	SCALE	NTS
CHECKED BY	JS	SHEET	1 OF 1
DWG NO	WWE-N700E 01A		

NO.	DATE	REVISION	BY

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