



ajustable frequency AC drives

variadores de frecuencia para motores

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Drives



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- N100 Series 5
- N700E Series 7



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Specifications are subject to change without prior notice.
Las especificaciones pueden cambiar sin ser notificadas.

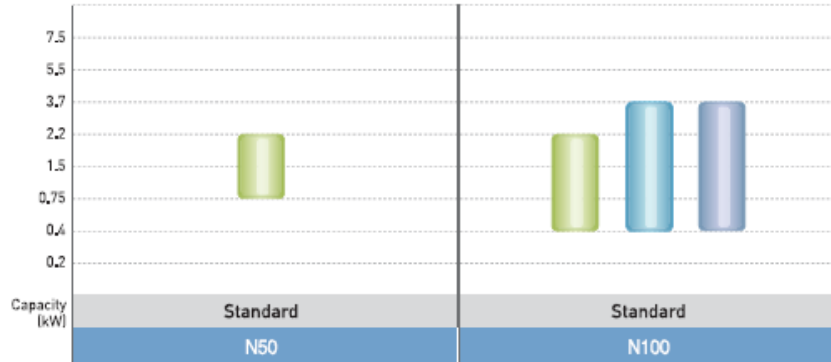
Table models

Series	Model	Capacity	Application	Features
N50	N50 Single Phase Vector	1 ϕ 200V : 0.75~2.2kW	Conveyor, Treadmill, Washing machine, Waste heat recovery equipment, Automatic door, Extruder	<ul style="list-style-type: none"> • Compact size • High starting torque • Various operation methods • Easy maintenance
N100	N100 Small Vector	1 ϕ 200V : 0.4~1.5kW 3 ϕ 200V : 0.4~3.7kW 3 ϕ 400V : 0.4~3.7kW	Fan, Pump, Conveyor, Wood working machine	<ul style="list-style-type: none"> • High torque with sensorless vector control • MMI using RS485 • Auto tuning • Compact size
N500	N500 Medium Capacity Vector	3 ϕ 400V: 160 ~ 350kW	Fan, Pump, Conveyor	<ul style="list-style-type: none"> • Convenient operator (LCD) • Compact size • Trip tracking data save
	N500P Medium Capacity	3 ϕ 400V: 320 ~ 380kW	Fan, Pump, Blower	<ul style="list-style-type: none"> • Energy saving • Compact size • Trip tracking data save
N700	N700 High Performance Vector	3 ϕ 200V : 5.5~55kW 3 ϕ 400V : 5.5~132kW	Hoist, Crane, Extruder, Machine tool, Parking machine, Textile machine	<ul style="list-style-type: none"> • Sensorless / Full vector control • Minimize the speed deviation at low speed • Built-in BRD (5.5 ~ 22kW) & BRD of up to 132kW is optional • Operation for multi motors
N700E	N700E Sensorless Vector	3 ϕ 200V : 5.5~22kW 3 ϕ 400V : 5.5~132kW	Fan, Pump, Conveyor, Extruder, Washing machine	<ul style="list-style-type: none"> • High torque performance by sensorless vector • Fan On / Off function • Built-in BRD (5.5 ~ 22kW) • Global certifications (CE, UL/cUL)
N5000	N5000 Medium Voltage Large Capacity Vector	3 ϕ 3.3kV: 155 ~ 3200kW 3 ϕ 4.16kV: 205 ~ 4000kW 3 ϕ 6.6kV: 330 ~ 6400kW	Fan, Pump, Blower	<ul style="list-style-type: none"> • High efficiency • Low total harmonic distortion • Easy maintenance • Limitless distance between motor and inverter • One touch screen digital operator (5" color LCD) • Easy to use • Global certification [CE]

Comparison model table

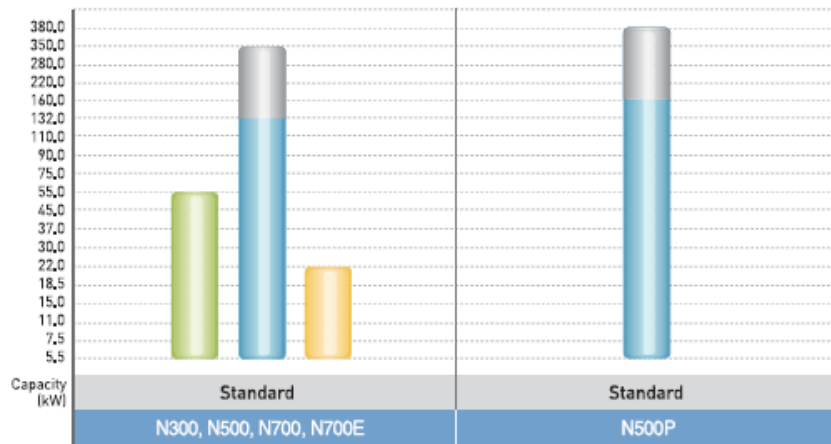
Small Size Inverter

- 1 ϕ 200V
- 3 ϕ 200V
- 3 ϕ 400V



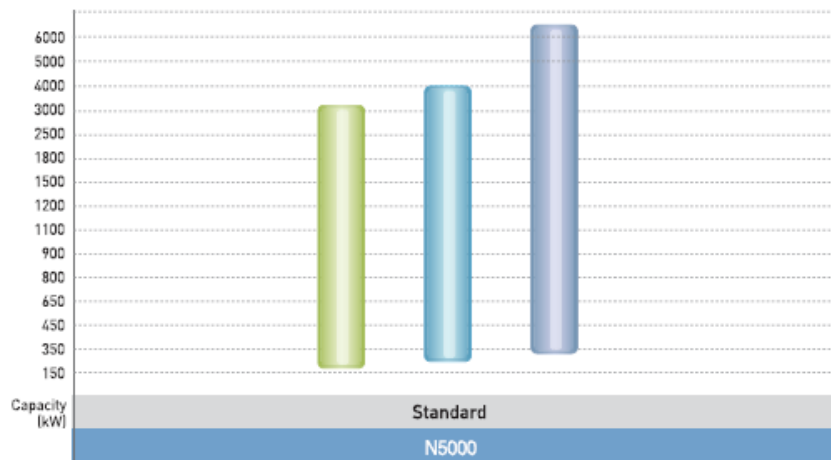
Medium Capacity Inverter

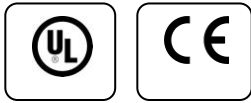
- N700 3 ϕ 200V
- N700 & N700E 3 ϕ 400V
- N500 3 ϕ 400V
- N700E 3 ϕ 200V



Large Capacity Inverter

- 3 ϕ 3300V
- 3 ϕ 4160V
- 3 ϕ 6600V





N100 Series

4 | Small Size Vector Inverter |



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Features

• Advance sensorless vector control function

- Realize smooth driving without motor vibration and high precise driving with no effect of changing load.
- Show high torque of 200% or greater at speeds as low as 0.5Hz during starting and operation.



• Strengthening auto-tuning function

- Automatically measure motor parameters.
- Realize optimal motor control without torque dropping and speed fluctuation.
- Realize precise driving without inconvenience of user and measure motor parameters manually.

• Strengthening the PID control function

- Strengthened the speed control program for controlling flux, temperature, pressure and so forth.
- Apply to high precision systems by high speed responsibility.

• Realize tripless driving by adding current suppression

- Realize stable driving at instant impact load and overload by adding over-current level adjusting function.
- Maintain constant speed on changing load suddenly by rapid speed restoration characteristics.
- Widely apply transfer machine, treadmill, industrial washing machine and so forth by momentary current suppressing.

• MMI function using RS485 communication (HIMS 2000)

- Built-in RS485 communication standard using Modbus protocol possible flexible application for various FA system, on remote driving at master system and easy monitoring the status of driving.
- Realize remote motor control drive using exclusive MMI program.



• SINK/SOURCE type signal selectable

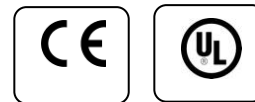
- Many types of programmable controllers are easily connected.

• Global products

- Compliance with EN standard by attaching EMC filter (option)
- Obtain CE Standard, UL, cUL

• Compact size for easy to install

- Reduction in cubic volume 52% compare to the J100 series.

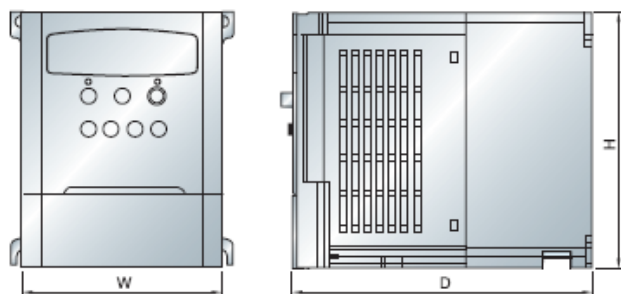


• Develop option product for user convenience

- Digital operator (operation and display)
- Remote operator (read and copy function)
- EMI/EMC filter by EN standard



Dimension



Unit : mm

Model	W	D	H
N100 - 004SF/LF, 007SF/LF, 004HF	115	135	130
N100 - 015SF/LF, 022LF, 007HF, 015HF	115	155	130
N100 - 037LF, 022HF, 037HF	150	155	130

Standard Specification

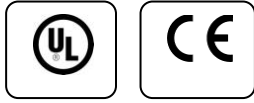
Model	200V Class								400V Class					
	N100-004SF	N100-007SF	N100-015SF	N100-004LF	N100-007LF	N100-015LF	N100-022LF	N100-037LF	N100-004HF	N100-007HF	N100-015HF	N100-022HF	N100-037HF	
Applicable motor capacity (kW)	0.4	0.75	1.5	0.4	0.75	1.5	2.2	3.7	0.4	0.75	1.5	2.2	3.7	
Rated output	Rated output current (A)	3.0	5.0	7.0	3.0	5.0	7.0	11.0	17.0	1.8	3.4	4.8	7.2	9.2
	Rated output capacity (kVA)	1.1	1.9	3.0	1.1	1.9	3.0	4.2	6.1	1.1	1.9	3.0	4.2	6.1
	Rated output voltage (V)	3-phase, 200 ~ 230VAC				3-phase, 200 ~ 230VAC				3-phase, 380 ~ 460VAC				
	Output frequency range	0.1 ~ 400Hz				0.1 ~ 400Hz				0.1 ~ 400Hz				
Rated input	Input voltage (V)	Single-phase 200-230V (±10%)			3-phase, 200 ~ 230V				3-phase, 380 ~ 460V					
	Frequency	50 / 60Hz (±5%)				50 / 60Hz (±5%)				50 / 60Hz (±5%)				
Power transistor	ASIPM								ASIPM					
Control method	Space vector PWM control								Space vector PWM control					
Starting torque	200%, 0.5Hz								200%, 0.5Hz					
Overload capacity	150%, 1min								150%, 1min					
Analog input command	DC 0 ~ 5V, DC 0 ~ 10V, DC 4 ~ 20mA, 0 ~ 1kΩ								DC 0 ~ 5V, DC 0 ~ 10V, DC 4 ~ 20mA, 0 ~ 1kΩ					
Weight (kg)	1.2	1.2	1.5	1.2	1.2	1.5	1.5	2	1.2	1.5	1.5	2	2	

N100 Series Type

Motor (kW)	0.4	0.75	1.5	2.2	3.7
Single-phase 200V	●	●	●		
3-phase 200V	●	●	●	●	●
3-phase 400V	●	●	●	●	●

Option

- Remote Operator : NOP1 (Copy Unit) / DOP1 (Economic)
- Cable: 1.5m (Nop1-1A) / 3.0m (Nop1-3A)
- Noise Filter
- HNF 2020 (200V, 20A)
- HNF 4012 (400V, 12A)



N700E Series

| Economical sensorless vector Inverter |



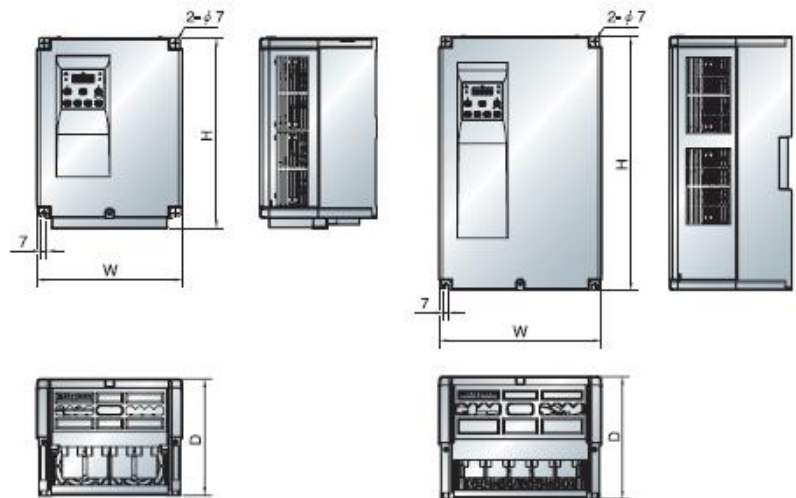
NEW



Features

- **High torque performance in ultra low speed zone**
 - Advanced sensorless vector control technology provides motor with high torque performance in ultra low speed zone.
 - Sensorless vector control: above 150% at 1Hz
- **Superb speed control by improved tuning technology for motors**
 - Through technology of compensating the motor time constant while motor tuning, minimize the speed change, stable operation can be achieved
- **Improved PID control performance**
 - Built in PID function uniformly controls oil pressure and flow quantity without additional options
- **Built-in regenerative braking system**
 - BRD is basically equipped with the N700E series
- **Compact size**
 - Compact size of N700E series utilizes existing panel even when changing model
- **Convenient maintenance and repair**
 - N700E is available to replace the fan without separation
 - Fan on/off function increases fan's durability and minimizes fan's noise

Dimension



Unit : mm

Model	W	D	H
N700E - 055, 075, 110LF/HF	210	168	275
N700E - 150, 185, 220LF/HF	250	188	390
N700E - 300, 370HF	312	270	530
N700E - 450, 550HF	342	280	548



Standard Specification

| 200V Class |

Model	200V Class						
	N700E-055LF	N700E-075LF	N700E-110LF	N700E-150LF	N700E-185LF	N700E-220LF	
Motor capacity (kW)	5.5	7.5	11	15	18.5	22	
Rated output	Rated current (A)	24	32	45	64	76	90
	Rated power (kVA)	8.3	11.1	15.6	22.2	26.3	31.2
	Output voltage (V)	3-phase 200 ~ 240VAC					
	Output frequency range	0.1 ~ 400Hz					
Rated input	Input voltage (V)	3-phase 200 ~ 240V ($\pm 10\%$)					
	Frequency	50 / 60Hz ($\pm 5\%$)					
Power transistor	IGBT						
Control method	Space vector PWM						
Starting torque	150%, 1Hz						
Overload capacity	150%, 1min						
Analog input command	DC 0 ~ 10V, DC 4 ~ 20mA						
Weight (kg)	4.2	4.5	4.5	6.5	7.5	8	

| 400V Class |

Model	400V Class										
	N700E-055HF	N700E-075HF	N700E-110HF	N700E-150HF	N700E-185HF	N700E-220HF	N700E-300HF	N700E-370HF	N700E-450HF	N700E-550HF	
Motor capacity (kW)	5.5	7.5	11	15	18.5	22	30	37	45	55	
Rated output	Rated current (A)	12	16	23	32	38	45	58	75	90	110
	Rated power (kVA)	7.9	10.5	15.1	21.1	25	29.6	38.2	49.4	59.2	72.4
	Output voltage (V)	3-phase 380 ~ 480VAC									
	Output frequency range	0.1 ~ 400Hz									
Rated input	Input voltage (V)	3-phase 380 ~ 480V ($\pm 10\%$)									
	Frequency	50 / 60Hz ($\pm 5\%$)									
Power transistor	IGBT										
Control method	Space vector PWM										
Starting torque	150%, 1Hz										
Overload capacity	150%, 1min										
Analog input command	DC 0 ~ 10V, DC 4 ~ 20mA										
Weight (kg)	4.2	4.5	4.5	7	7	7.5	22	22	27	30	

N700E Series Type

Motor (kW)	5.5	7.5	11	15	18.5	22	30	37	45	55
3-phase 200V	●	●	●	●	●	●				
3-phase 400V	●	●	●	●	●	●	●	●	●	●

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