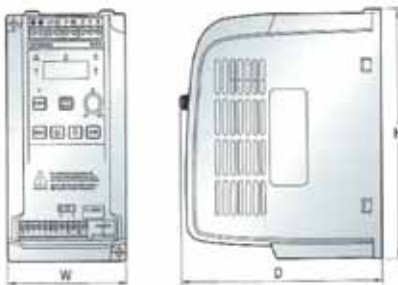


# Inverter Rowan-Hyundai N50

## Small size Single-phase Vector Inverter



### DIMENSIONS



Model	W	D	H
N50-007SF	80	142	135
N50-015SF,022SF	95	142	135

### FEATURES - CARATTERISTICHE

#### ENGLISH



#### Vector inverter for single phase input only

- High torque of 200% or greater at speed as low as 1Hz during starting and operation.

#### Tripless driving obtained by applying current suppression

- Stable operation even under the instantaneous impact load and overload is realized through the addition of over-current level adjusting function.
- Maintain constant speed even at time of sudden load change by rapid speed restoration characteristics.
- Applicable to the transfer machine, treadmill, industrial washing machine due to this function of temporary current suppression.

#### Possible to select various operation method

- It is possible to select the operation method of either RS485 communication driving or analog signal driving for the user's convenience

#### Compact size for easy installation

- Reduced in cubic volume 52% compared to the N100 series

#### Optional products for user convenience

- DOP05: Economical remote operator, Operation & display function

#### ITALIANO



#### Inverter vettoriale con alimentazione esclusiva monofase

- Coppia al 200% con velocità al di sotto di 1Hz durante la partenza e durante le lavorazioni

#### Realizzo di un controllo stabilità attraverso corrente di soppressione

- Stabilità nel lavoro in caso di variazioni istantanee e continuative del carico tramite una funzione di adattamento del livello di sovracorrente.
- Mantenimento della velocità costante anche nel cambiamento improvviso del carico tramite la registrazione della velocità.
- Applicabile su macchine transfer, tapis roulant, lavatrici industriali, per via di questa funzione di corrente di soppressione momentanea.

#### Possibilità di selezione vari metodi di operazione

- E' possibile selezionare il metodo di lavoro tramite comunicazione RS485 o tramite segnale analogico secondo le esigenze dell'operatore.

#### Misure contenute per una facile installazione

- Ridotto del 52% in confronto della serie N100

#### Accessori per ogni esigenza

- DOP05: un'economico pannello esterno, visualizzazione dei parametri.



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## STANDARD SPECIFICATIONS

Model		N50-007SF	N50-015SF	N50-022SF
Applicable motor capacity (KW)		0,75	1,5	2,2
OUTPUT	Rated output current (A)	5,0	7,0	11,0
	Rated output capacity (A)	1,9	3,0	4,2
	Rated output voltage (A)	3-phase, 200-230V, 50/60Hz		
	Maximum output frequency (Hz)	400Hz		
INPUT	Voltage / Frequency	Single phase, 200 - 230V 50/60Hz		
	Power conditions	Voltage: +/- 10% / Frequency: +/-5%		
CONTROL CHARACTERISTICS	PWM method	Space vector PWM		
	Control method	V/F control, sensorless vector control		
	Output frequency range	0,1 - 400Hz		
	V/F characteristics	V/F free-setting (30-400Hz of base frequency), constant torque and variable torque pattern selectable		
	Overload rating	150% of rated current for a 1 minute		
	Starting torque	More than 200% (at 1Hz)		
	Torque boost	Manual torque boost can be set between 0 - 50%		
	Acceleration/deceleration time setting	0,1 - 3000sec		
	Acceleration/deceleration pattern	Linear, S-Curve, U-Curve		
	Current stall prevention operation level	Operating current level setting possible (20-200%), enable / disable selection		
	Voltage stall prevention operation level	Operating current level constant, enable / disable selection		
	Analog frequency setting	DC 0 - 10V / 4 - 20mA		
Protective functions		Over current protection, under-voltage error, output short circuit, overload shut-off (electronic thermal), ground fault, external trip, commutation error, EEPROM error		
ENVIRONMENT	Ambient temperature	-10 / 40°C (no freezing)		
	Ambient humidity	90% RH or less (non-condensing)		
	Storage temperature	-20 / 60°C (short term temperature during transport)		
	Installation area	Indoors without corrosive gases, flammable gases, oil mist or dust		
	Altitude and vibration	Maximum 1000m or less above sea level, 5,9m/s or less		
Cooling method		Forced air cooling		
International directive compliance		CE & UL/cUL		



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