



Frequency Inverters

L200 Series

The economical choice for a broad range of tasks

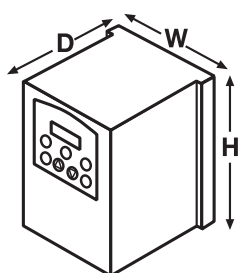
- Capacity Range: 0.2 – 4.0 kW
- Global Standards to CE, UL, c-UL, C-Tick and CSA
- Integrated RS485 Interface
- PID Control
- Automatic Voltage Regulation
- Integrated EMC-Filter
- Motor Thermistor Input
- Digital Display with Built-in Potentiometer



All features at a glance

Inverter L200	200V-Series							400V-Series						
	002 NFE(F)	004 NFE(F)	005 NFE(F)	007 NFE(F)	011 NFE(F)	015 NFE(F)	022 NFE(F)	004 HFE(F)	007 HFE(F)	015 HFE(F)	022 HFE(F)	030 HFE(F)	040 HFE(F)	
Protective structure	IP20													
Maximum motor size (4P) in kW	0.2	0.4	0.55	0.75	1.1	1.5	2.2	0.4	0.75	1.5	2.2	3.0	4.0	
Input supply phase	Single phase / Three phase							Three Phase						
Rated input voltage	200VAC-240VAC +/-10%							380VAC -10% ~ 460VAC +10%						
Rated output voltage	Three Phase 200 ~ 240VAC (proportional to input voltage)							Three Phase 360 ~ 460VAC (Corresponds to input voltage)						
Rated output current in A	1.4	2.6	3.0	4.0	5.0	7.1	10.0	1.5	2.5	3.8	5.5	7.8	8.6	
Output frequency range	0.5 ~ 400 Hz													
Frequency accuracy (at 25°C +/-0°C)	Digital command: +/-0.01% of maximum frequency (Analogue command: +/-0.2% of maximum frequency)													
Frequency setting resolution	Digital setting: 0.01 Hz Analogue setting: maximum frequency / 1000													
Voltage/frequency characteristic	Constant or reduced torque													
Overload current capacity	150% for 60 seconds (once every 10 minutes)													
Acceleration/deceleration time	0.1 ~ 3600 s in selectable linear and non-linear mode (second acceleration/deceleration usable)													
Starting torque	100% ore more (when torque boost has been set)													
Braking torque	Dynamic braking, feedback to capacitor	approx. 100%					approx. 70%	appr. 20%	appr.100%		appr. 70%		appr. 20%	
	DC injection braking	Braking is on at the minimum frequency or less (minimum frequency, braking time and braking force can be set)												
Inputs	Frequency setting	Digital operator	Settings using keys \odot \ominus or potentiometer											
	Forward / Reverse run (Start/Stop)	External signals	0-10VDC (input impedance 10k Ohm) 4-20mA (input impedance 250 Ohm) Potentiometer 1k-2k Ohm, 1W											
		Digital operator	Via keys RUN (for start) and STOP/RESET (for stop) (Default setting: forward run)											
Intelligent input terminals programmable as, ie.	External signals	Intelligent input terminals configurable as FW and RV												
Outputs	Intelligent output terminals programmable as, ie.	FW: Forward run start/stop RV: Reverse run start/stop CF1-CF4: Multistage speed JG: Jogging command AT: Analogue current input selection 2CH: 2nd Accel./decel. time FRS: Free run stop EXT: External trip USP: USP function RS: Reset SFT: Software lock PTC: Thermal protection												
	Frequency and current monitoring	FA1/FA2: Frequency arrival signal RUN: Motor running signal OL: Overload signal OD: Deviation signal at PID control AL: Alarm signal												
Fault alarm contact	0-10VDC, 8bit On when the inverter trips (1c contact)													
Other functions	Automatic voltage regulation, retry; Analogue gain/bias adjustment, frequency jump, upper/lower limiter, output frequency display, trip history monitoring, carrier frequency setting, PID control, automatic torque boost and many more													
Protection functions	Overcurrent, overvoltage, undervoltage, electronic thermal, temperature abnormality, ground fault upon starting, overload limit													
Environmental	Ambient temperature	-10 ~ 50°C; > 40°C Current derating												
	Storage temperature and humidity	-25 ~65°C 20 ~ 90% RH (no dew condensation)												
Options	Remote operator, copy unit, cable for digital operator, reactor for improving power factor, noise filter, ProDrive Software)													
Overall weight (approx.) in kg	0.85	1.3		2.2		2.8		1.3		1.7		2.8		

L200 Series Dimensions



Type L200	002 NFEF	004 NFEF 005 NFEF	007 NFEF 011 NFEF	015 HFEF 022 HFEF	004 HFEF	007 HFEF 015 HFEF 022 HFEF 030 HFEF 040 HFEF
Width mm	80	80	110	140	110	110
Height mm	140	140	155	180	155	155
Depth mm	93	107	156	171	129	156

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