



Frequency Inverter L200 Series

The economical choice for a broad range of tasks

- Capacity Range: 0.2 – 7.5 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

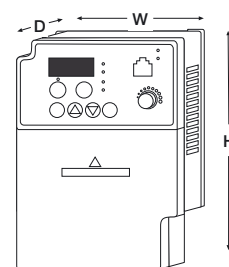


All features at a glance

Inverter L200	200V-Series							400V-Series													
	002 NFEF	004 NFEF	005 NFEF	007 NFEF	011 NFEF	015 NFEF	022 NFEF	004 HFEF	007 HFEF	015 HFEF	022 HFEF	030 HFEF	040 HFEF	055 HFEF	075 HFEF						
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	5.5	7.5						
Input supply phase	Single phase / Three phase							Three Phase													
Rated input voltage	200VAC-240VAC ±10% 50/60Hz ±5%							380VAC -10% ~ 460VAC +10% 50/60Hz ±5%													
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	13.0	16.0						
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 or potentiometer																
			External signals		0-10VDC (input impedance 10k Ohm) 4-20mA (input impedance 250 Ohm) Potentiometer 1k-2k Ohm, 1W																
	Forward / Reverse run (Start/Stop)		Digital operator		Via keys RUN (for start) and STOP/RESET (for stop) (Default setting: forward run)																
Outputs	Intelligent input terminals programmable as, ie.		Intelligent input terminals configurable as FW and RV																		
	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, 8 bit																			
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		5.5		5.7			

L200 Series Dimensions

Typ L200	002 NFEF	004 NFEF	005 NFEF	007 NFEF 011 NFEF	015 NFEF 022 NFEF	004 HFEF	007 HFEF 015 HFEF 022 HFEF 030 HFEF 040 HFEF	055 HFEF 075 HFEF
Width mm	80	80	80	110	110	110	110	180
Height mm	140	140	140	155	155	155	155	250
Depth mm	100	114	136	136	163	136	163	163



Hitachi Europe GmbH

Am Seestern 18 · D-40547 Düsseldorf
Tel. +49-211-52 83 -0 · Fax +49-211-52 83 -649
Internet: www.hitachi-ds.com
E-Mail: info@hitachi-ds.com