

Frequency Inverter L300P Series

V/f Control Inverter with Advanced Functions

HITACHI
Inspire the Next



- Capacity Range: 1.5-132 kW
 - Quick Stop Function
 - User Macro Function
 - Auto-Energy Saving
 - PID Control
 - Automatic Voltage Regulation
 - Motor Synchronization
 - Motor Potentiometer
 - Motor Thermistor Input
 - RS485 and RS422 Interfaces
 - Fieldbus Interfaces for Profibus, DeviceNet, CANopen (optional)
 - Removable Digital Display with Potentiometer
 - Global Standards: CE, UL, c-UL, C-Tick
- and many more

Frequency Inverter L300P Series

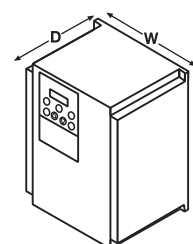
V/f Control Inverter with Advanced Functions

All features at a glance

Inverter L300P		400 V - Series																		
		015 HFE2	022 HFE2	040 HFE2	055 HFE2	075 HFE2	110 HFE2	150 HFE2	185 HFE2	220 HFE2	300 HFE2	370 HFE2	450 HFE2	550 HFE2	750 HFE2	900 HFE2	1100 HFE2	1320 HFE2		
Applicable motor (kW)		1.5	2.2	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132		
Rated output current (A)		3.8	5.3	8.6	12	16	22	29	37	43	57	70	85	105	135	160	195	230		
Rated input voltage		3 ~ 380 ... 480 V, ±10 %, 50/60 Hz																		
Rated output voltage		3 ~ 380 ... 480 V (corresponding to input voltage)																		
Filter reference PF2B or BTFB		13			032			064			080		115		150		220		260	
Output frequency range		0.1...400 Hz																		
Frequency accuracy (at 25 °C ±10 °C)		Analogue setting: ±0.2 %, digital setting: ±0.01 %																		
Frequency setting resolution		Analogue setting: Maximum frequency/4000, digital setting: 0.01 Hz																		
V/f characteristics		constant torque, reduced torque, free setting curve																		
Overload capacity		120 % for 60 s, 150 % for 0.5 s																		
Acceleration/deceleration time		0.01 - 3600 sec. (linear/curve, accel./decel. selection), two stage accel./decel.																		
Braking	Dynamic braking	Built-in BRD circuit up to 15 kW								external dynamic braking unit (option)										
	Minimum value of resistor in ohms	100	100	70	70	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-
	DC braking	Braking force, time and operating frequency																		
Inputs	Intelligent input terminals	5 inputs, NO or NC, PNP or NPN logic																		
	Analogue Inputs	3 inputs, 0...10 V, 0/4...20 mA, -10...+10 V																		
Outputs	Analogue outputs	3 outputs, 0-10 Volt, 4-20 mA.; PWM 0-10V.																		
	Relay outputs	2 relays single contact, 1 relay changeover contact																		
PID loop operation		Air velocity, temperature etc.																		
Serial port		RS485, RS422																		
Remote control up and down		Integrated motorised potentiometer with/without setpoint storage																		
Bus systems (optional)		Profibus, LonWorks, DeviceNet																		
Standards		CE, UL, cUL, c-Tick																		
Thermal motor protection		Thermistor input PTC or NTC																		
Protection		Overcurrent, overvoltage, undervoltage, overload, extreme high temperature, ground fault protection at startup, electronic thermal overload protection etc.																		
Environmental conditions	Temperature / humidity	-10...+50 °C temperature, 20...90 % humidity (non condensing)																		
	Vibration / installation	5.9 m/s ² L300P-015...300HFE, 2.94 m/s ² L300P-370...1320HFE, 10...55 Hz, altitude 1000 m or less indoors, no corrosive gases or dust																		
Standards		CE, UL, cUL, c-Tick																		
Options		Remote operator unit, Profibus, Devicenet, LonWorks, EMI filter																		
Protection class		IP20 / (IP54 optional)						IP20 (IP54 optional)						IP00 (IP54 optional)						
Weight kg (approx.)		3.5			5			12			20		30		60		80			

L300P Series Dimensions

L300P		015 HFE2	075 HFE2	185 HFE2	370 HFE2	450 HFE2	900 HFE2	1320 HFE2
		022 HFE2	110 HFE2	220 HFE2		550 HFE2	1100 HFE2	
		040 HFE2	150 HFE2	300 HFE2		750 HFE2		
		055 HFE2						
Width	mm	150	210	250	310	390	390	480
Height	mm	255	260	390	540	550	700	740
Depth	mm	150	180	200	205	260	280	280



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

