

Frequency Inverter L300IP Series

Frequency Inverter Series IP 54

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)
 - Digital Display
 - Integrated EMC-Filter
 - Meets CE Standards
- and many more

L300IP Series

Frequency Inverter Series IP 54

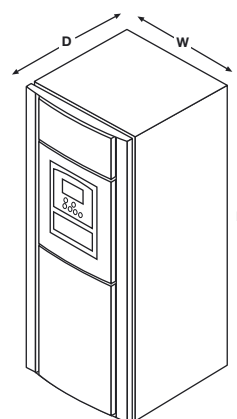
All features at a glance

Inverter L300IP	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 ... 400 V (optional 480 V), ±10 %, 50/60 Hz																	
Rated output voltage	3 ~ 380 ... 400 V (corresponding to input voltage)																	
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: 0.01Hz																	
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 (optional resistor) up to 15 kW																
	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 0-10 V																
	Relay outputs	2 relays single contact, 1 relay changeover contact																
PID loop operation	Air velocity, temperature etc.																	
Thermal motor protection	Thermistor input PTC or NTC																	
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																	
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*, 25...90 % humidity (non condensing)																
	Vibration / location	5.9 m/s ² L300P-015...300 HFE, 2.94 m/s ² L300P-370...1320 HFE, 10...55 Hz, altitude 1000 m or less indoors*1, no corrosive gases or dust																
Standards	CE, UL, cUL, c-Tick																	
Options	Remote operator unit, Profibus, Devicenet, LonWorks EMI filter, AC reactor, DC reactor																	
Protection class	IP54 Metal housing with protection class IP54 with integrated line filter class „B“																	
Weight kg (approx.)	22			23			41			67			81			160		

* 50 °C with derating
*1 IP54 or equivalent

L300IP Series Dimensions

L300IP	015 HFE2	075 HFE2	185 HFE2	370 HFE2	450 HFE2	900 HFE2
	022 HFE2	110 HFE2	220 HFE2		550 HFE2	1100 HFE2
	040 HFE2	150 HFE2	300 HFE2		750 HFE2	1320 HFE2
	055 HFE2					
Width mm	316	316	368	422	498	580
Height mm	680	680	820	970	1070	130
Depth mm	335	335	360	376	433	44



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

