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Frequency Inverter L100IP Series

Frequency Inverter Series IP 54

HITACHI
Inspire the Next



- Capacity Range: 0.4-7.5kW
- PID Control
- Automatic Voltage Regulation
- Motor Thermistor Input
- Fieldbus Interfaces for Profibus, DeviceNet, CANopen (optional)
- Digital Display
- Integrated EMC-Filter
- Meets CE Standards
and many more

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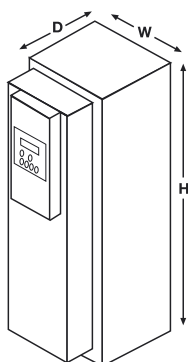
Frequency Inverter Series IP 54

All features at a glance

Inverter L100 IP	200 V - Series						400 V - Series								
		004 NFE		007 NFE		015 NFE	022 NFE		007 HFE	015 HFE	022 HFE		040 HFE	055 HFE	075 HFE
Applicable motor (kW)		0.37		0.75		1.5	2.2		0.75	1.5	2.2		4.0	5.5	7.5
Rated output current (A)		2.6		4.0		7.1	10		2.5	3.8	5.5		8.6	13	16
Rated input voltage	1 or 3 ~ 200...240 V, -10 % +5 %, 50/60 Hz, ±5 %						3 ~ 380 ... 460 V, ±10 %, 50/60 Hz, ±5 %								
Rated output voltage	3 ~ 0 - 200...240 V (corresponding to input voltage)						3 ~ 0 - 380...460 V (corresponding to input voltage)								
Output frequency range	0.5...360 Hz														
Frequency accuracy (at 25 °C ±10 °C)	Analogue command ±0.1 %, digital command ±0.01 %														
Frequency resolution	Analogue setting: Maximum frequency/1000, digital setting: 0.1 Hz														
V/f characteristics	Constant torque, reduced torque														
Overload capacity	150 % for 60 s														
Acceleration/deceleration time	0.1 to 3000 sec. (linear/curve, accel./decel. selection) Two stage accel./decel.														
Starting torque	100 % or more (when torque boost has been set)														
Braking	Dynamic braking	External dynamic braking unit (option)													
	DC braking	Braking force, time and operating frequency													
Inputs	Intelligent input terminals	5 inputs, NO or NC, 24V PNP-logic													
	Analogue inputs	Voltage 0...10 V, current 4...20 mA													
Outputs	Intelligent output terminals	2 outputs, type "open collector", OD (deviation signal at PID control), RUN (running signal), FA1, 2 (frequency arrival signal), AL (alarm signal), OL (overload advance notice signal)													
	Analogue outputs	PWM (analogue/digital) analogue output frequency, analogue output current or digital output frequency													
	Relay output	Alarm signal, single change over contact													
PID loop operation	Air velocity, temperature etc.														
Thermal motor protection	Thermistor input (PTC)														
Serial port	RS422														
Bus systems (optional)	Profibus, DeviceNet														
Conformity	CE, UL, cUL, c-Tick														
Protective function	Overcurrent, overvoltage, undervoltage, overload, extreme high temperature, ground fault protection at startup, electronic thermal overload protection														
Environmental conditions	Temperature / humidity	-10...+40 °C (50 °C with derating) temperature, 25...90 % humidity (non condensing)													
	Vibration / location	5.9 m/s ² , 10...55 Hz, altitude 1000 m or less indoors, IP54 or equivalent													
Standards	EN50082-1 and -2, EN50081-1 and 2 (with filter), EN50178														
Option	Remote operator unit, Profibus, DeviceNet EMI filter, AC reactor, DC reactor														
Protection class	IP54 Metal housing with protection class IP54 with integrated line filter class "B"														
Weight kg (approx.)		7.5		7.6		8.0	8.1		7.8	8.1	8.4		8.5	9.4	9.6

L100IP Series Dimensions

L100IP		004 NFE	007 HFE	055 HFE
		007 NFE	015 HFE	075 HFE
		015 NFE	022 HFE	
		022 NFE	040 HFE	
Width	mm	185	185	205
Height	mm	490	490	490
Depth	mm	260	260	340



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