

SPECIFICATION

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HITACHI SJ100 SERIES AC INVERTER

General

The advanced design of the Hitachi SJ100 Sensorless Vector Control series of AC Inverters gives a compact, powerful, intelligent, yet easy to use package. The ideal solution for control of automated machinery.

Main Features

- Smallest Footprint Sensorless Vector Control Drive Available
- Auto tuning gives 200% Starting Torque @ 1 Hz
- 10 : 1 Speed Range (5Hz) with no Motor De-rating
- ISPM Technology
- Two Sets of Motor Characteristics can be Stored
- Motorised Potentiometer inputs, for Digital Up/Down Control
- Built in Brake Transistor for Regenerative Loads
- Thermistor input available
- Devicenet or Anybus versions available
- World-wide Standards Compatibility
- Suitable for Many Applications: Conveyors, Truck, Extruder, Mixer, etc..



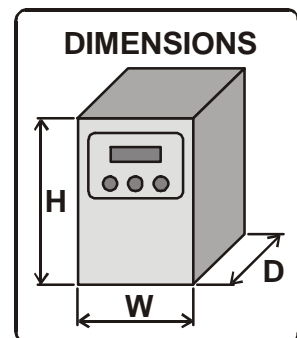
Range

Single Phase 200-240 Volt -10%+5% 50/60 Hz input

Model Number	Motor Power	Rated Current	Dimensions
SJ100 002 NFE	0.2 kW	1.6A	120H x 84W x 100D
SJ100 004 NFE	0.4 kW	2.6A	120H x 84W x 114D
SJ100 005 NFE	0.55 kW	3.0A	120H x 84W x 114D
SJ100 007 NFE	0.75 kW	4.0A	130H x 110W x 136D
SJ100 011 NFE	1.1 kW	5.0A	130H x 110W x 136D
SJ100 015 NFE	1.5 kW	8.0A	180H x 140W x 160D
SJ100 022 NFE	2.2 kW	11.0A	180H x 140W x 171D

Three Phase 380-460 Volt -10%+10% 50/60 Hz input

Model Number	Motor Power	Rated Current	Dimensions
SJ100 004 HFE	0.4 kW	1.5A	130H x 110W x 136D
SJ100 007 HFE	0.75 kW	2.5A	130H x 110W x 163D
SJ100 015 HFE	1.5 kW	3.8A	130H x 110W x 163D
SJ100 022 HFE	2.2 kW	5.5A	130H x 110W x 163D
SJ100 030 HFE	3.0 kW	7.8A	180H x 140W x 171D
SJ100 040 HFE	4.0 kW	8.6A	180H x 140W x 171D
SJ100 055 HFE	5.5 kW	13.0A	257H x 182W x 177D
SJ100 075 HFE	7.5 kW	16.0A	257H x 182W x 177D



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CONTINUATION SHEET

Technical Specification

Control System	Sensorless Flux Vector PWM or VF Control
Output Frequency Range	0.5 to 360 Hz
Frequency Setting Resolution	Digital 0.1 Hz – Analogue setting Max. Frequency divided by 1000
Starting Torque	High Starting Torque of 200% or more (3.0kW + 180% or more)
Braking	Transistor included, 20 – 100 % (capacitive feedback type)
DC Injection Braking	Programmable Power, Time & Frequency settings
Speed Reference	Digital Operator, 0-10V (10KΩ impedance), 4-20mA (250Ω impedance), Potentiometer 1K to 2K Ω (2W)
Multi-Stage Speed	16 Programmable Pre-sets
Output Voltage	Same as rated input + Auto Voltage Regulator (AVR)
Accel/Decel	0.1 – 3000s Linear or S Curve – 2 selectable
Input Terminals	6 Programmable from 19 selections
Output Terminals	3 Programmable from 6 selections – Open Collector 27V dc 50 mA.
Alarm Relay	Change over contact
Meter Output	Voltage or Frequency Output of Speed or Load indication only
Protective Functions	15 Functions inc. earth fault
Trip History	Last 3 trips, total trip log
PID Controls	Programmable PID Function – 4-20mA / 0 – 10 Vdc feedback
Enclosure	IP20
International Standards	UL, C-UL (CSA), CE and C-Tick – Complies with EMC & LV Directives

Notes

Filters are required for compliance to EMC regulations. Please refer to SJ100 filter specification for full details.

Output chokes are required if the motor cable exceeds 50 metres.

For a detailed description of all available features please refer to instruction manual.

We reserve the right to alter this document without notice.