

SJ700 Series Large Capacity

3-phase 400V 185, 315, 400kW Models

NEW

1. Main Features

1 High starting torque - 150% at 0.3Hz

Improved SENSORLESS VECTOR CONTROL & AUTO TUNING provide for high starting torque of 150% or more at 0.3Hz.

Easy adjustment of motor constants meets the needs of high torque applications, such as cranes, extruders or lifts.

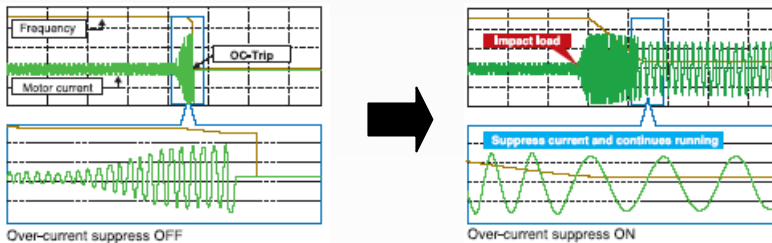
2 Built-in PLC-like programming functions

Advanced logic control includes common Boolean functions, timers counters, etc., allowing sophisticated control within the inverter.

Since external equipment can be reduced or eliminated, your control system becomes simpler and more cost effective.

3 Tripless operation

A high speed internal processor improves current control performance. Over-current suppression and over-voltage suppression functions help avoid inverter tripping during acceleration and deceleration.



4 Long-life components & lifetime warning function

Life of DC bus capacitors & cooling fans is 10* years or more (design life). Life can be monitored via the display, and an output can be activated to notify when maintenance is due.

*Ambient temperature: Average 40 deg C (no corrosive gasses oil mist or dust) Design lifetime is calculated and not guaranteed.

5 Surge voltage suppression

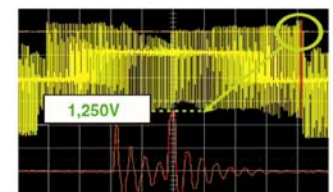
Patent registered in Japan, USA & Korea

Hitachi's innovative PWM control suppresses motor terminal voltage to less than two times internal DC bus voltage. This voltage is lower than the maximum insulation voltage of many commercial induction motors.

(during regeneration, the DC bus voltage may increase, resulting in motor terminal voltage above the motor's maximum insulation voltage rating)



Motor terminal voltage



E=650V, cable=100m

Other versatile functions

Instantaneous power failure ride-through, safety stop, intelligent input terminal and output terminal on/off delay time, active frequency matching (catch a spinning motor), 10-bits analog output resolution (voltage, current), and more.

