

SJ700 Series

High performance with Many useful Functions and, yet User Friendly



Feature

High starting Torque, Powerful Drive and easy set up

- High Starting Torque 200% at 0.3Hz.
- Hitachi exclusive 0Hz Domain sensorless vector control.
- High accuracy & improved Auto-tuning function.
- Full Vector Control with Feedback option (Torque Control, Position Control).

Many useful Functions

- Over current & voltage suppress function.
- Built-in PLC-like Programming function.
- EMI Filter will be built-in (Category C3 up to 132kW).
- Internal Braking Circuit will be built-in up to 22kW.
- Emergency Stop Function.
- DC Bus AVR Function During Deceleration.
- Using optional SRW operator, SJ300 parameters can be transferred easily to SJ700.

Long lifetime components & Ease of Maintenance

- Long life components for improved maintainability.
- Easily replaceable cooling fans and bus capacitors speed field maintenance.
- Common wiring terminals with previous model series simplifies replacement wiring.

Easy Operation

- Data comparison function shows only parameters changed from factory default.
- Ability to define 12 user-selectable parameters for display.
- Basic mode shows only most commonly used parameters.

Environmental Friendliness

- Micro Surge Voltage suppress function (Patent registered).
- EU RoHS compliant by restricting to use hazardous substances (except solder in power module).
- Varnish coating of internal PC board & plating of main circuit copper bus bar as standard.

Global standards

- Conformity to global standards.CE, UL, c-UL, C-Tick approvals.



< CE >



< UL,c-UL >



< c-Tick >

- RS-485 communication port with Modbus[®] RTU protocol is available as standard for all models.
- Compatibility with networks such as DeviceNet[™] and PROFIBUS[®], with communication options.
- Logic input & output terminals are selectable for sink & source logic.
- Wide Input power voltage range.

SJ700 Series		0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	150	185	220	315	400		
Applicable motor rating in kW (HP)		(1/2)	(1)	(2)	(3)	(5)	(5)	(7.5)	(10)	(15)	(20)	(25)	(30)	(40)	(50)	(60)	(75)	(100)	(125)	(150)	(175)	(200)	(250)	(300)	(400)	(500)		
3-phase 200V	LFUF2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○
3-phase 400V	HFEF2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HFUF2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● : Available
○ : Plan model

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• DeviceNet is a trademark of Open DeviceNet Vendor Association.

• PROFIBUS is a registered trademark of Profibus Nutzer Organization.