

SJ700 Series

**High performance with
Many useful Functions and,
yet User Friendly**



Feature

Enhanced version SJ700D-3 series inverter (Models: 3-ph.200V class 0.4 to 55kW, 3-ph.400V class 0.75 to 132kW)

- Dual Rating.
- EzSQ improvement. (1task/2ms ⇒ 5 tasks/2ms)
- RS485 (Modbus® RTU) communication speed is improved. (Max19.2kbps ⇒ 115.2kbps speed is improved)
- Induction motor & Permanent magnet motor control from one inverter. (PM motor control: ordering production)

High starting Torque, Powerful Drive and easy set up

- High Starting Torque 200% at 0.3Hz. (75 to 132kW : 180% at 0.3Hz, 185kW and over : 150%, 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.
- Sequence operation is realized by downloading to an inverter a program created with Hitachi's ProDriveNext software.
- EMI Filter will be built-in (EN61800-3 cat.C3 up to 150kW*). (*European Version and JP Version does not have 150kW.)
- Internal Braking Circuit will be built-in up to 22kW.
- Emergency Stop Function.
- DC Bus AVR Function During Deceleration.
- Using optional WOP operator, SJ300 parameters can be transferred easily to SJ700D/SJ700.

Long lifetime components & Ease of Maintenance

- Long life components for improved maintainability.
- Easily replaceable cooling fans and bus capacitors (15kW and over) 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.
- EU RoHS compliant by restricting to use hazardous substances
- 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.



- 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.

SJ700D/SJ700 Series

Applicable motor rating in kW (HP)

		0.4 (1/2)	0.75 (1)	1.5 (2)	2.2 (3)	3.7 (5)	4.0 (5)	5.5 (7.5)	7.5 (10)	11 (15)	15 (20)	18.5 (25)	22 (30)	30 (40)	37 (50)	45 (60)	55 (75)	75 (100)	90 (125)	110 (150)	132 (175)	150 (200)	185 (250)	220 (300)	315 (400)	400 (500)		
3-phase 200V	LFUF3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	LFF3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3-phase 400V*1	HFEF3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HFUF3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	HFF3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● : Available

● Modbus is a registered trademark of Modicon Inc. (Schneider Automation International).

● DeviceNet is a trademark of Open DeviceNet Vendor Association.

● PROFIBUS is a registered trademark of Profibus Nutzer Organization.

*1 : Model name (185kW to 400kW) : SJ700-**** HF2, HFE2, HFU2