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OMRON

Position Driver

FND-X□-SRT

Advanced Servodrivers with Positioner Functions

DIO and CompoBus/S Models are Newly Added

- Servodriver and positioner are combined into one Unit.
- Conventional U-series, U-series UE type, H-series, and M-series AC Servomotors can be used.
- Feeder control/DTP control and single operation/ automatic incremental/continuous operation are available.
- Easy to set, operate, and adjust.



Ordering Information

Specifications			Model
CompoBus/S models	For 200-VAC input	6 A	FND-X06H-SRT
		12 A	FND-X12H-SRT
		25 A	FND-X25H-SRT
		50 A	FND-X50H-SRT
	For 100-VAC input	6 A	FND-X06L-SRT
		12 A	FND-X12L-SRT

Note: For details, refer to *OMNUC FND-X-series User's Manual (I524)*.

Specifications

General Specifications

Ambient temperature	Operating: 0°C to 55°C Storage: –10°C to 70°C
Ambient humidity	Operating: 35% to 90% (with no icing) Storage: 35% to 90% (with no icing)
Operating atmosphere	No corrosive gases
Dielectric strength	1,500 VAC_{RMS} for 1 min at 50/60 Hz
Insulation resistance	5 MΩ min. (at 500 VDC) between power input terminals and between the power terminal and the case
Vibration resistance	10 to 150 Hz in X, Y, and Z directions with 0.10-mm single amplitude; acceleration: 9.8 m/s^2 max.; time coefficient: 8 min; 4 sweeps
Shock resistance	98 m/s^2 max., three times each in X, Y, and Z directions
Degree of protection	Built into panel (IP00)

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■ Performance Specifications

Item \ Model (see note 1)		FND-X06H-SRT	FND-X12H-SRT	FND-X25H-SRT	FND-X06L-SRT	FND-X12L-SRT
Continuous output current (0-P)		2.0 A	4.8 A	8.0 A	2.0 A	3.0 A
Momentary maximum output current (0-P)		6.0 A	12 A	25 A	6.0 A	12 A
Input power supply		Single-phase 200/240 VAC (170 to 264 V) 50/60 Hz			Single-phase 100/115 VAC (85 to 127 V) 50/60 Hz	
Position/speed feedback	U Series (INC)	Optical Incremental encoder, 2,048 pulses/revolution				
	U Series (ABS)	Optical Absolute encoder, 1,024 pulses/revolution				
	U-UE Series	Optical Incremental encoder, 1,024 pulses/revolution				
	H Series	Magnetic Incremental encoder, 2,000 pulses/revolution				
	M Series	Resolver, absolute accuracy 0.18° max.; ambient temperature 25°				
Applicable load inertia	U Series (INC)	Maximum of 30 times motor's rotor inertia		Maximum of 20 times motor's rotor inertia	Maximum of 30 times motor's rotor inertia	
	U Series (ABS)	Maximum of 20 times motor's rotor inertia		Maximum of 18 times motor's rotor inertia	Maximum of 20 times motor's rotor inertia	
	U-UE Series	Maximum of 30 times motor's rotor inertia		Maximum of 20 times motor's rotor inertia	Maximum of 30 times motor's rotor inertia	
	H Series	Maximum of 10 times motor's rotor inertia				
	M Series	Maximum of 10 times motor's rotor inertia				
Inverter method		PWM method based on IGBT				
PWM frequency		10 kHz				
Weight		Approx. 1.5 kg		Approx. 2.5 kg	Approx. 1.5 kg	
Frequency response (speed control)		100 Hz (at a load inertia equivalent to motor's rotor inertia)				
Position loop gain		1 to 200 (rad/s)				
Feed forward		0% to 200% of speed reference				
Pulse rate		1/32,767 = (pulse rate 1 / pulse rate 2) = 32,767/1				
Positioning completion width		1 to 32,767 (pulses) U Series (INC): 8,192 pulses/revolution; U Series (ABS): 4,096 pulses/revolution; M Series 24,000 pulses/revolution				
Acceleration/Deceleration time		0 to 9,999 (ms); acceleration and deceleration times set separately. Two types can be set for each. S-curve acceleration/deceleration function available (filter time constant: 0.00 to 32.76 s).				
Sequence input		19 pts. (limit inputs, origin proximity, RUN command, START, alarm reset, origin search, JOG operation, teaching, point selection, position data, deceleration stop) Photocoupler input: 24 VDC, 8 mA External power supply: 24 VDC ±1 V, 150 mA min.				
Sequence output		15 pts. (brake output, READY, origin search completion, origin, teaching, motor running, positioning completion, alarm, point output, position selection, speed selection) Open collector output: 24 VDC, 40 mA				
Monitor output (See note 2.)	Speed monitor	3 V/motor's rated speed (output accuracy: approx. ±10%)				
	Current monitor	3 V/motor's maximum current (output accuracy: approx. ±10%)				
Regenerative absorption capacity		13 W + 17 J	24 W + 17 J	37 W + 22 J	13 W + 17 J	17 W + 17 J
Protective functions		Overcurrent, overvoltage, voltage drop, resolver disconnection, power status error, clock stopped, overcurrent (soft), speed amp saturation, motor overload, temporary overload, resolver error, speed over, error counter over, parameter setting error, software limit over, coordinate counter over, overrun, encoder disconnection, encoder communications error, absolute encoder backup error, absolute encoder checksum error, absolute encoder absolute error, absolute encoder over speed, encoder data not transmitted, BCD data error, present value undetermined, PTP data not set				

Note: 1. When using the 100-VAC-input Position Drivers in combination with the U-series or U-series UE type models, use 200-VAC Servomotors (-HA, -TA , or -H models).

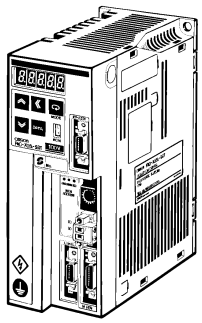
2. For the monitor output, the monitor items and voltage polarity can be set by parameter UP-25 (monitor output selection).

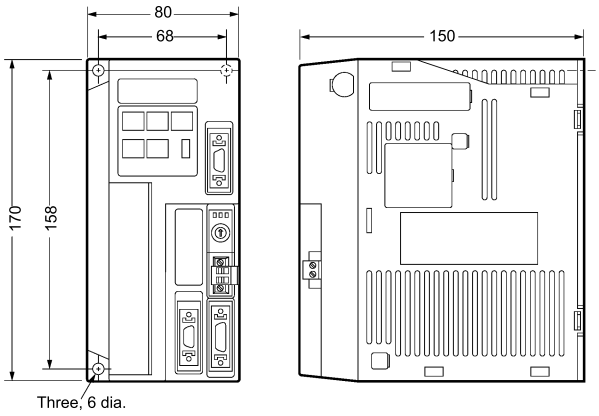
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Dimensions

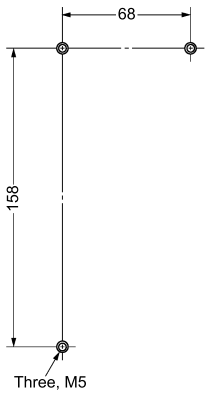
Note: All units are in millimeters unless otherwise indicated.

200-VAC FND-X06H-SRT/-X12H-SRT
100-VAC FND-X06L-SRT/-X12L-SRT

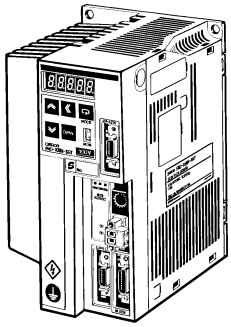


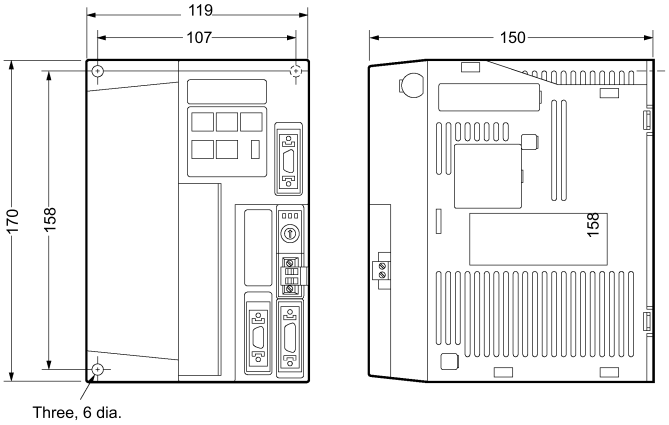


Mounting Holes



200-VAC FND-X25H-SRT





Mounting Holes



■ Position Drivers

Item	Model	Continuous output current (0-P)	Momentary maximum output current (0-P)	Input power supply	Inverter method	PWM frequency	Weight
200-VAC input	FND-X06H-SRT	2.0 A	6.0 A	Single-phase 200/240 VAC (170 to 264 V) 50/60 Hz	PWM method based on IGBT	10 kHz	Approx. 1.5 kg
	FND-X12H-SRT	4.8 A	12 A				
	FND-X25H-SRT	8.0 A	25 A				Approx. 2.5 kg
100-VAC input	FND-X06L-SRT	2.0 A	6.0 A	Single-phase 100/115 VAC (85 to 127 V) 50/60 Hz			Approx. 1.5 kg
	FND-X12L-SRT	3.0 A	12 A				

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