

■ Features

● Various functions allows for advance control

Includes various functions such as pulse positioning, speed control, current control, PTP positioning control etc.

● High Frequency Pulse is available

Maximum allowable input pulse of pulse positioning control is 2MHz and the maximum feedback pulse is 10MHz.

● Easy adjustment with PC

Easy-to-use PC Loader Software is prepared. Various settings and easy monitoring can be performed by connecting PC and driver with RS232C cable.

● Easy Frequency analysis of the mechanical system

Analyzing wide range frequency is simple, owing to PC Loader Software with FFT analyzer.

● Equipped with vibration inhibitor filter

It has various filters, which inhibit vibration of the machine. You can set up the filter with frequency analysis via the PC Loader Software, which operates with more precision.



Model designations

SDD-N-20A 4K00 -□-□

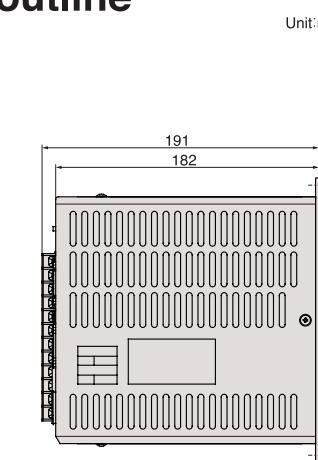
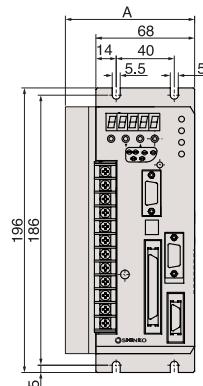
Driver

Serial number
200W…0.2kW
750W…0.75kW
1K50…1.5kW
4K00…4.0kW
7K50…7.5kW

■ Dimensional outline

SDD-N-20A200W

SDD-N-20A750W



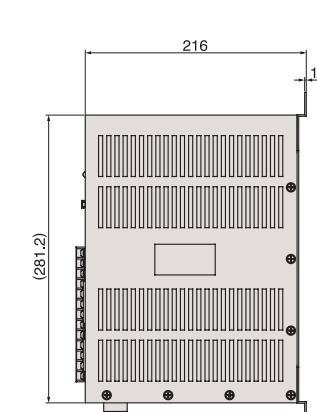
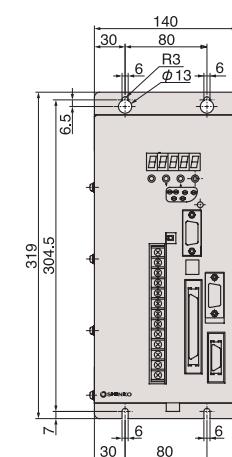
Unit:mm

● Dimensional table

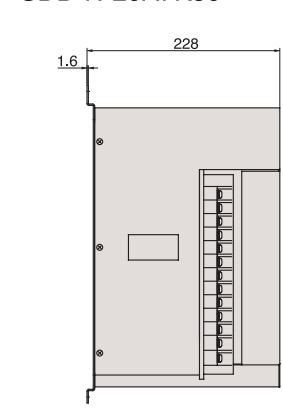
Type of Driver	A size
SDD-N-20A200W	73
SDD-N-20A750W	89

SDD-N-20A1K50

SDD-N-20A4K00



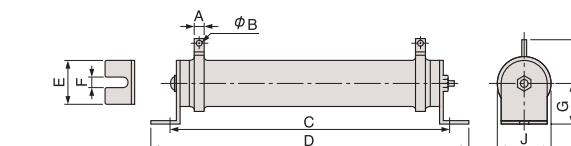
SDD-N-20A7K50



■ Driver specification

Driver Type	SDD-N-20AC200W-□-□	SDD-N-20A750W-□-□	SDD-N-20A1K50-□-□	SDD-N-20A4K00-□-□	SDD-N-20A7K50-□-□
Power Supply	Main	3 Phase AC200V/230V (-15%~+10%) 50/60Hz	Single Phase AC200V/230V (-15%~+10%) 50/60Hz		
	Control				
Maximum Output Currency [A]	1.4	3.5	8.5	19	33
Maximum Motor Currency [A]	4.2	10.5	25.5	57	66
Control Method					Sine Wave PWM Method (Carrier Frequency : 10kHz)
Cooling Method		Air-cooling without blower			Air-cooling with blower
Mass [kg]	2.1	2.5	6.4	6.4	12.7
HD Motor Type	Linear Type	HDL-S030S	HDL-S060S	HDL-S120S/HDL-S030S	HDL-5F
	Rotary Type	HDM-1005M/HDM-1010M	HDM-1020M	HDM-1050L/HDM2020ME	HDM-1080L and above
Standard Type	Pulse Position Control	Interface			Line Driver Drive MAX 2 [MHz]
		Pulse Pattern			F/R, Sign/Pulse, A/B
Velocity Control	Speed Protocol				7 points can be registered on parameter (Setting resolution 1 [r/min])
	Currency Control	Currency Protocol			Plus / minus direction can be registered independently (Setting resolution 1% / maximum current ratio)
Positional Type	PTP Positioning Control	PTP Positioning	Mechanical zero return, electric zero return, INC move, ABS move, constant speed JOG, constant rate JOG		
		Coordinate System	Linear limited, Rotation limited, Rotation cycle, Equal segregation		
		Optional Function	Pause*, Order cancel*, Emergency stop, S letter acceleration-deceleration, beeline (* is not available in particular coordinate systems.)		

■ Damping Resistor



*If the resistor is very often started, contact us to increase resistor capacity.

● Dimensional table

Type	Driver	Resistance (Ω)	Capacity (W)	Length (mm)								
				A	B	C	D	E	F	G	J	
BR-15003	SDD-N-20A-200W-□-□	150	30	6	3.2	101	110	18	4.5	16	35	19
BR-06008	SDD-N-20A-750W-□-□	60	80	8	3.2	148	167	26	6	22	54	28
BR-03015	SDD-N-20A-1K50-□-□	30	150	8	3.2	228	247	26	6	22	54	28
BR-01530	SDD-N-20A-4K00-□-□	15	300	10	5.5	309	335	40	9.5	40	78	42
BR-01040	SDD-N-20A-7K50-□-□	10	400	10	5.5	385	411	40	9.5	40	78	42

PC Loader Software

Via RS232C serial communications, you can change parameters and monitor the process with your PC.

① Edit parameters

You can set the parameters and manage the parameter file.

② Monitor Display

Numerical monitor and I/O monitor are displayed.

③ Waveform Monitor

Motor operational waveform is displayed.

④ Test Running

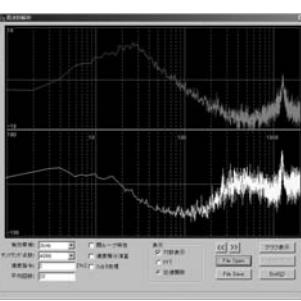
Without order to CN1, simple motor running can be performed.

⑤ Teaching Function

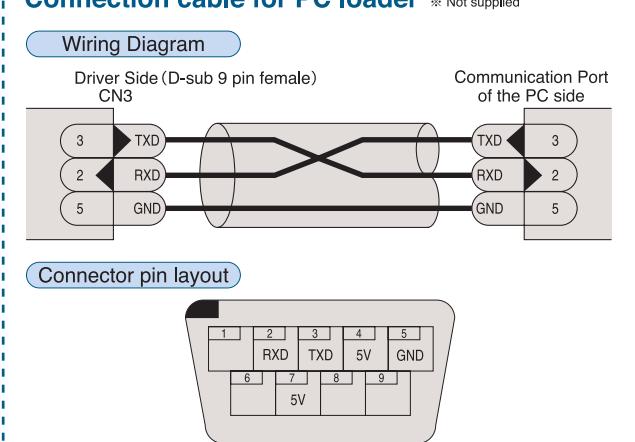
Mechanical zero return, electric zero return, INC move, ABS move, constant velocity JOG, constant rate JOG, Zero teaching, and order teaching can be performed.

⑥ Transfer Function measurement

Transfer function specification can be measured including motor and load.



Connection cable for PC loader



■ Hardware Requirements

Communication Method	RS232C
Transfer Rate	9600, 19200, 38400bps
Compatible PC	Windows 98/NT/Me/2000/XP Hard disk Drive with 6MB available space

*Windows is a registered trademark of the Microsoft Corporation.