NXS Variable Frequency Drives

SPECIFICATION DATA



Variable Frequency Drives (VFD) accept a control input and then output tailored control signal(s) to operate as many as six devices (fans, pumps, etc.) with maximum efficiency. The VFD can be field-programmed without any extra devices or computer connections.

SPECIFICATIONS

Wiring:

☐ Wire Type and Size is Model and Application Dependant. ☐ For NXS details, see form 63-2600.

Power Supply:

□ 208-240 Vac, 45-66 Hz, +10%, -15%.

□ 380-500 Vac, 45-66 Hz, +10%, -15%.

□ 525-690 Vac, 45-66 Hz, +10%, -15%.

Ambient Ratings:

□ Temperature Ranges:

□ Operating: 14°F to 104°F (-10°C to 40°C).
 □ Storage: -40°F to 140°F (-40°C to 60°C).

☐ Humidity Range: 5 to 95% RH (non-condensing).

Control Inputs:

■ Voltage (Analog): 0-10 Vdc, 200k ohm differential.

■ Resolution: 0.1%, ±1% accuracy.

☐ Current (Analog): 4-20 mA, 250 ohm differential.

☐ Digital: up to six, 24 Vdc, positive or negative logic.

Control Output:

☐ Reference Voltage: 10V, +3%; maximum load 10 mA.

☐ Auxiliary Voltage: 24V, ±15%; maximum 250 mA.

☐ Current (Analog): 0-20 mA, 500 ohm maximum.

■ Resolution: 10 bit.

☐ Accuracy: ±2%.

☐ Relay: Two programmable changeover relay outputs.

Switching Capacity: 24 Vdc, 8A; 250 Vac, 8A; 125 Vdc,

□ Digital: Open collector output, 50 mA, 48V.

Motor Connection:

□ Continuous Output Overload Current:

FEATURES

- Seven configurable applications built in.
- Easy commissioning through software or control panel.
- Devices can be wall-mounted or panel-mounted.
- Eleven protective functions (see Form 63-2600, Users Manual, Technical Data section).
- Compact Size.

Insulated gate bi-polar transistor (IGBT) technology.

☐ Low: Maximum ambient temperature: 104°F (40°C); 1.1 x I₁ (low overload current).

☐ High: Maximum ambient temperature: 122°F (50°C); 1.5 x I_H (high overload current).□ Starting Torque:

□ Low Overload: 150%.□ High Overload: 200%.

☐ Starting Current: 2.0 x I_H 2 seconds every 20 seconds if output frequency is less than 30 Hz and temperature of heatsink is less than 140°F (up to 400k W).

□ Frequency:

☐ Range: 0-320 Hz.

Resolution: 0.01 Hz.

Switching Frequency Range:

☐ Up to and including 40 HP: 1 to 16 KHz (default: 10 kHz).

□ 50 HP and higher: 1 to 10 KHz (default: 3.6 kHz).

■ Mount vertically on a wall or other flat surface using four screws or bolts sized for the particular unit.

Approvals (Model Dependant):

■ NEMA1.

■ NEMA12.

■ Underwriters Laboratories, Inc. (UL)

☐ Canadian Underwriters Laboratories, Inc. (CUL).

☐ CE.

Accessories:

□ 32006627-001 RFI Filter for NXL units up to 3HP, 460V.

□ 32006628-001 Panel Mount Kit, NEMA12, 6 ft.

□ 32006629-001 Blank Display.

☐ 32006629-002 Alphanumeric Display.

□ 32006629-003 Seven-Segment Display for NXL.

☐ 32006630-001 Lonbus Card.

□ 32006630-002 Modbus Card.

□ 32006630-003 I/O Expander Card, 2RO (NO/NC).

□ 32006630-004 I/O Expander Card, 6DI/DO Programmable.

☐ 32006630-005 I/O Expander Card, 6DI, 1DO, 2AI, 1AO.





- □ 32006630-006 I/O Expander Card, 1RO (NO/NC), 1RO (NO).
- □ 32006630-007 I/O Expander Card, 3RO (NO/NC), 1RO (NO).
- □ 32006630-008 I/O Expander Card, 1AI (mA), 2AO (mA).
- ☐ 32006662-001 NXL Demo Case.
- □ 32006662-002 NXS Demo Case.
- □ 32006803-001 Control Module, NXS.
- □ 32006803-002 Fan Assembly, up to 7.5HP.

- ☐ 32006803-003 Fan Assembly, 10-20HP. ☐ 32006803-004 Fan Assembly, 25-40HP. ☐ 32006803-005 Fan Assembly, 50-75HP.
- □ 32006803-050 Fan Assembly, 200HP+.

Dimensions [in in. (mm)]:

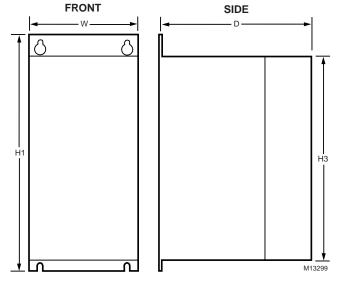


Fig. 1. Dimensions of the NXS Variable Frequency Drives (See Table 1).

Table 1. NXS VFD Dimension Details.

Frame Size Model Number Inside Number Inside Number Inside Number (inches) Inside National (inches) Page (inches)						
Frame Size Number HP S (inches) A Frame 4 NXS0015A 1.5 11 5.0x11.5x7.5 480 NXS0030A 3 NXS0030A 3 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 11 12 12 12 14 12 12 12 12 12 12 12				(sql)		AC
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NXS0050A 5 NXS0075A 7.5		NXS0030A	3			
NXS0075A 7.5		NXS0040A	4			
Frame 5 NXS0100A NXS0150A 15 NXS0200A 20 18 S.7x15.4x8.4 Frame 6 NXS0250A 25 NXS0300A 30 NXS0400A 40 41 7.7x20.4x9.3 Frame 7 NXS0500A 50 NXS0400A 40 77 9.3x23.3x10.1 Frame 8 NXS1000A 100 NXS1250A 125 NXS1500A 125 NXS1500A 150 128 11.2x28.4x11.3 Frame 9 NXS2000A 250 NXS2500A 250 128 11.2x28.4x11.3 Frame 4 NXS0010B 1 4.2 3.3x7.3x6.9 208/230 NXS0020B 2 NXS0030B 3 NXS0040B 4 11 5.0x11x7.5 208/230 Frame 5 NXS0050B 5 NXS0050B 5 NXS0050B 10 NXS0050B 10 NXS0050B 20 NXS0050B 20 NXS0050B 30 NXS0400B 40 18 5.7x15.4x8.4 230 Frame 7 NXS0250B 25 NXS0150B 15 NXS0200B 20 NXS0400B 40 17 7.8x20.4x9.3 241 7.8x20.4x9.3 Frame 7 NXS0250B 25 NXS0300B 30 NXS0400B 40 77 9.3x23.3x10.1 11 1.4x29.9x13.5 Frame 8 NXS0500B 50 NXS0400B 40 128 11.4x29.9x13.5 11.4x29.9x13.5 Frame 9 NXS0500B 50 NXS0600B 60 NXS0750B 75 128 11.4x29.9x13.5 11.4x29.9x13.5		NXS0050A	5			
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Frame 6 NXS0150B 15 41 7.8x20.4x9.3 NXS0200B 20 77 9.3x23.3x10.1 NXS0300B 30 77 9.3x23.3x10.1 NXS0400B 40 40 40 Frame 8 NXS0500B 50 128 11.4x29.9x13.5 NXS0750B 75 75 128 11.4x29.3x14.3		NXS0075B	7.5			
NXS0200B 20 Frame 7 NXS0250B 25 77 9.3x23.3x10.1 NXS0300B 30 NXS0400B 40 Frame 8 NXS0500B 50 128 11.4x29.9x13.5 NXS0600B 60 NXS0750B 75 Frame 9 NXS1000B 100 322 18.9x45.3x14.3		NXS0100B	10			
Frame 7 NXS0250B 25 77 9.3x23.3x10.1 NXS0300B 30 NXS0400B 40 Frame 8 NXS0500B 50 128 11.4x29.9x13.5 NXS0600B 60 NXS0750B 75 18.9x45.3x14.3	Frame 6	NXS0150B	15	41	7.8x20.4x9.3	
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Frame 8 NXS0500B 50 128 11.4x29.9x13.5 NXS0600B 60 NXS0750B 75 Frame 9 NXS1000B 100 322 18.9x45.3x14.3		NXS0300B	30			
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NXS0750B 75 Frame 9 NXS1000B 100 322 18.9x45.3x14.3	Frame 8	NXS0500B	50	128	11.4x29.9x13.5	
Frame 9 NXS1000B 100 322 18.9x45.3x14.3		NXS0600B	60			
		NXS0750B	75			
NXS1250B 125	Frame 9	NXS1000B	100	322	18.9x45.3x14.3	
		NXS1250B	125			

Dimensions [in in. (mm)]:

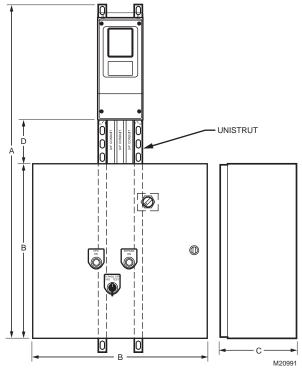


Fig. 2. Dimensions of the NXS NEMA1 Assemblies (See Table 1).

Models:

ΚN	S	Variab	le F	reque	ency Drive; includes standard RFI filter
		0010	Mo		1.0 HP Includes AC line choke
		0015	Pov	ver	1.5 HP
		0020			2.0 HP
		0030			3.0 HP
		0040			4.0 HP
		0050			5.0 HP
		0075			7.5 HP
		0100			10 HP
		0150			15 HP
		0200			20 HP
		0250			25 HP
		0300			30 HP
		0400			40 HP
		0500			50 HP
		0600			60 HP
		0750			75 HP
		1000			100 HP
		1250			125 HP
		1500			150 HP
		1750			175 HP
		2000			200 HP
		2500			250 HP
		3000			300 HP
			Α		V, three-phase circuitry
			В		/230V, three-phase circuitry
			C	-	V, three-phase circuitry
				10	1 111 1
				12	NEMA 12 Enclosure
					XX Varies by model
ΚN	S	0100	Α	10	XX

NOTE: Refer also to the Quick Selection Guide (form 63-9251)

TYPICAL SPECIFICATION

Alternating current (AC) motors with squirrel-cage rotors require a variable frequency control. The variable frequency drive (VFD) shall generate the required variable frequency through three main input voltage lines connected to an LC filter and diode bridge. This shall produce a DC voltage for an insulated gate bi-polar transistor (IGBT) bridge. The IGBT bridge shall produce a pulse-width modulated (PWM) AC voltage for the motor. A microprocessor shall control the motor according to measured signals and control commands set from the VFD control panel.

The VFD shall have seven programmable applications which can be modified using a personal computer-based commissioning tool with an optional software package, or a control panel with either an alpha-numeric or graphic LCD.

The VFD shall be UL and CE approved. The VFD shall be include built-in RFI filters and all models with 3 HP or more shall include an AC choke.

Automation and Control Solutions

Honeywell International Inc. 1985 Douglas Drive North Golden Valley, MN 55422

Honeywell Limited-Honeywell Limitée 35 Dynamic Drive Toronto, Ontario M1V 4Z9 customer.honeywell.com

