

Variable Frequency Drives

NXS Variable Frequency Drives



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

- 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 sections)
- Compact Size
- Insulated gate bi-polar transistor (IGBT) technology
- Modbus, BACnet, Device Net, Prof bus, LobBus, NS available as options cards

Drive Family: NXS

Acceleration time: 0 - 3000 sec

Deceleration time: 0 - 3000 sec

Analog Current Input: 0 (4) - 20 mA, 250 ohm differential

Analog Voltage Input: 0 - 10 Vdc, 200K ohm

Analog Current Output: 0 (4) - 20 mA, max 500 ohm

Digital Output: 50 mA/48v open collector

Continuous Output Current: overload 1.5 x High overload current (1min/10min); overload 1.1 x Low overload current (1min/10min)

Relay Output: 24 Vdc/8A; 125 Vdc/0.4A; 250 Vac/8A

Reference Output Voltage: +10V, +3%, max 10mA

Auxiliary Voltage: 24V, +/- 15%, max 250 mA

Starting Torque: 200% High; 150% Low

Peak Current: 2 x high overload current, 2 seconds every 20 seconds

Frequency (Hz): 0 Hz to 320 Hz

Operating Temperature: High Overload 14 to 122; Low Overload 14 to 104 (High Overload -10 to 50; Low Overload -10 to 40)

Type of RFI Filter: Industrial filter

Configuration: Drive alone

Voltage: 208 Vac; 230 Vac

Product Number	Horsepower	Frame Type	Layout	Type of Enclosure	Current Ratings	Dimensions, Approximate		Weight	
						(inch)	(mm)	(lb)	(kg)
NXS0010B1000/U	1 HP	FR4	Stand-alone drive	NEMA 1	4.8A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 lb	5.0 kg
NXS0010B1208/U	1 HP	FR4	Stand-alone drive	NEMA 12	4.8A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 lb	5.0 kg
NXS0015B1005/U	1.5 HP	FR4	Stand-alone drive	NEMA 1	6.6A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 lb	5.0 kg
NXS0015B1203/U	1.5 HP	FR4	Stand-alone drive	NEMA 12	6.6A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 lb	5.0 kg
NXS0020B1008/U	2 HP	FR4	Stand-alone drive	NEMA 1	7.8A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 lb	5.0 kg
NXS0020B1206/U	2 HP	FR4	Stand-alone drive	NEMA 12	7.8A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 lb	5.0 kg
NXS0030B1006/U	3 HP	FR4	Stand-alone drive	NEMA 1	11A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 lb	5.0 kg
NXS0030B1204/U	3 HP	FR4	Stand-alone drive	NEMA 12	11A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 lb	5.0 kg
NXS0040B1004/U	4 HP	FR4	Stand-alone drive	NEMA 1	12.5A	5.4 x 11.5 x 7.5	137 x 292 x 191	17.9 lb	8.1 kg
NXS0040B1202/U	4 HP	FR4	Stand-alone drive	NEMA 12	12.5A	5.4 x 11.5 x 7.5	137 x 292 x 191	17.9 lb	8.1 kg
NXS0050B1001/U	5 HP	FR5	Stand-alone drive	NEMA 1	17.5A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0050B1209/U	5 HP	FR5	Stand-alone drive	NEMA 12	17.5A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0075B1002/U	7.5 HP	FR5	Stand-alone drive	NEMA 1	25A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0075B1200/U	7.5 HP	FR5	Stand-alone drive	NEMA 12	25A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0100B1001/U	10 HP	FR5	Stand-alone drive	NEMA 1	31A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	40.8 lb	18.5 kg
NXS0100B1209/U	10 HP	FR5	Stand-alone drive	NEMA 12	31A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	40.8 lb	18.5 kg
NXS0150B1000/U	15 HP	FR6	Stand-alone drive	NEMA 1	48A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 lb	18.5 kg
NXS0150B1208/U	15 HP	FR6	Stand-alone drive	NEMA 12	48A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 lb	18.5 kg
NXS0200B1000/U	20 HP	FR6	Stand-alone drive	NEMA 1	61A	7.7 x 20.4 x 9.3	196 x 518 x 236	77.2 lb	35 kg
NXS0200B1208/U	20 HP	FR6	Stand-alone drive	NEMA 12	61A	7.7 x 20.4 x 9.3	196 x 518 x 236	77.2 lb	35 kg
NXS0250B1009/U	25 HP	FR7	Stand-alone drive	NEMA 1	75A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS0250B1207/U	25 HP	FR7	Stand-alone drive	NEMA 12	75A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS0300B1009/U	30 HP	FR7	Stand-alone drive	NEMA 1	88A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS0300B1207/U	30 HP	FR7	Stand-alone drive	NEMA 12	88A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS0400B1008/U	40 HP	FR8	Stand-alone drive	NEMA 1	114A	9.3 x 23.3 x 10.1	236 x 520 x 257	127.9 lb	58.0 kg
NXS0400B1206/U	40 HP	FR8	Stand-alone drive	NEMA 12	114A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS0500B1007/U	50 HP	FR8	Stand-alone drive	NEMA 1	140A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS0500B1205/U	50 HP	FR8	Stand-alone drive	NEMA 12	140A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS0600B1006/U	60 HP	FR8	Stand-alone drive	NEMA 1	169A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS0600B1204/U	60 HP	FR8	Stand-alone drive	NEMA 12	169A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg

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Product Number	Horse-power	Frame Type	Layout	Type of Enclosure	Current Ratings	Dimensions, Approximate		Weight	
						(inch)	(mm)	(lb)	(kg)
NXS0750B1004/U	75 HP	FR8	Stand-alone drive	NEMA 1	205A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS0750B1202/U	75 HP	FR8	Stand-alone drive	NEMA 12	205A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg

Voltage: 460 Vac

Product Number	Horse-power	Frame Type	Layout	Type of Enclosure	Current Ratings	Dimensions, Approximate		Weight	
						(inch)	(mm)	(lb)	(kg)
NXS0015A1007/U	1.5 HP	FR4	Stand-alone drive	NEMA 1	3.3A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0015A1205/U	1.5 HP	FR4	Stand-alone drive	NEMA 12	3.3A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0020A1000/U	2 HP	FR4	Stand-alone drive	NEMA 1	4.3A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0020A1208/U	2 HP	FR4	Stand-alone drive	NEMA 12	4.3A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0030A1008/U	3 HP	FR4	Stand-alone drive	NEMA 1	5.6A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0030A1206/U	3 HP	FR4	Stand-alone drive	NEMA 12	5.6A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0040A1006/U	4 HP	FR4	Stand-alone drive	NEMA 1	7.6A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0040A1204/U	4 HP	FR4	Stand-alone drive	NEMA 12	7.6A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0050A1003/U	5 HP	FR4	Stand-alone drive	NEMA 1	9A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0050A1201/U	5 HP	FR4	Stand-alone drive	NEMA 12	9A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0075A1004/U	7.5 HP	FR4	Stand-alone drive	NEMA 1	12A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0075A1202/U	7.5 HP	FR4	Stand-alone drive	NEMA 12	12A	5.4 x 11.5 x 7.5	137 x 292 x 191	11 b	5.0 kg
NXS0100A1003/U	10 HP	FR5	Stand-alone drive	NEMA 1	16A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0100A1201/U	10 HP	FR5	Stand-alone drive	NEMA 12	16A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0150A1002/U	15 HP	FR5	Stand-alone drive	NEMA 1	23A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0150A1200/U	15 HP	FR5	Stand-alone drive	NEMA 12	23A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0200A1002/U	20 HP	FR5	Stand-alone drive	NEMA 1	31A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0200A1200/U	20 HP	FR5	Stand-alone drive	NEMA 12	31A	5.7 x 15.4 x 8.4	144.8 x 391.2 x 213.4	17.9 lb	8.1 kg
NXS0250A1001/U	25 HP	FR6	Stand-alone drive	NEMA 1	38A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 lb	18.5 kg
NXS0250A1209/U	25 HP	FR6	Stand-alone drive	NEMA 12	38A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 lb	18.5 kg
NXS0300A1001/U	30 HP	FR6	Stand-alone drive	NEMA 1	46A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 lb	18.5 kg
NXS0300A1209/U	30 HP	FR6	Stand-alone drive	NEMA 12	46A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 lb	18.5 kg
NXS0400A1000/U	40 HP	FR6	Stand-alone drive	NEMA 1	61A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 lb	18.5 kg
NXS0400A1208/U	40 HP	FR6	Stand-alone drive	NEMA 12	61A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 lb	18.5 kg
NXS0500A1009/U	50 HP	FR7	Stand-alone drive	NEMA 1	72A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS0500A1207/U	50 HP	FR7	Stand-alone drive	NEMA 12	72A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS0600A1008/U	60 HP	FR7	Stand-alone drive	NEMA 1	87A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS0600A1206/U	60 HP	FR7	Stand-alone drive	NEMA 12	87A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS0750A1006/U	75 HP	FR7	Stand-alone drive	NEMA 1	105A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS0750A1204/U	75 HP	FR7	Stand-alone drive	NEMA 12	105A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 lb	35 kg
NXS1000A1002/U	100 HP	FR8	Stand-alone drive	NEMA 1	140A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS1000A1200/U	100 HP	FR8	Stand-alone drive	NEMA 12	140A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS1250A1009/U	125 HP	FR8	Stand-alone drive	NEMA 1	170A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS1250A1207/U	125 HP	FR8	Stand-alone drive	NEMA 12	170A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS1500A1007/U	150 HP	FR8	Stand-alone drive	NEMA 1	205A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS1500A1205/U	150 HP	FR8	Stand-alone drive	NEMA 12	205A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 lb	58.0 kg
NXS2000A1000/U	200 HP	FR9	Stand-alone drive	NEMA 1	261A	18.9 x 45.3 x 14.3	480 x 1150 x 362	321.9 lb	146 kg
NXS2500A1005/U	250 HP	FR9	Stand-alone drive	NEMA 1		Call Customer Care			

Voltage: 575 Vac

Product Number	Horse-power	Frame Type	Layout	Type of Enclosure	Current Ratings	Dimensions, Approximate		Weight	
						(inch)	(mm)	(lb)	(kg)
NXS0030C1004/U	3 HP	FR6	Stand-alone drive	NEMA 1	4.5A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0030C1202/U	3 HP	FR6	Stand-alone drive	NEMA 12	4.5A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0040C1002/U	4 HP	FR6	Stand-alone drive	NEMA 1	5.5A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg

Commercial Components

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Product Number	Horse-power	Frame Type	Layout	Type of Enclosure	Current Ratings	Dimensions, Approximate		Weight	
						(inch)	(mm)	(lb)	(kg)
NXS0040C1200/U	4 HP	FR6	Stand-alone drive	NEMA 12	5.5A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0050C1009/U	5 HP	FR6	Stand-alone drive	NEMA 1	7.5A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0050C1207/U	5 HP	FR6	Stand-alone drive	NEMA 12	7.5A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0075C1000/U	7.5 HP	FR6	Stand-alone drive	NEMA 1	10A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0075C1208/U	7.5 HP	FR6	Stand-alone drive	NEMA 12	10A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0100C1009/U	10 HP	FR6	Stand-alone drive	NEMA 1	13.5A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0100C1207/U	10 HP	FR6	Stand-alone drive	NEMA 12	13.5A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0150C1008/U	15 HP	FR6	Stand-alone drive	NEMA 1	18A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0150C1206/U	15 HP	FR6	Stand-alone drive	NEMA 12	18A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0200C1008/U	20 HP	FR6	Stand-alone drive	NEMA 1	22A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0200C1206/U	20 HP	FR6	Stand-alone drive	NEMA 12	22A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0250C1007/U	25 HP	FR6	Stand-alone drive	NEMA 1	27A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0250C1205/U	25 HP	FR6	Stand-alone drive	NEMA 12	27A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0300C1007/U	30 HP	FR6	Stand-alone drive	NEMA 1	34A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0300C1205/U	30 HP	FR6	Stand-alone drive	NEMA 12	34A	7.7 x 20.4 x 9.3	196 x 518 x 236	40.8 b	18.5 kg
NXS0400C1006/U	40 HP	FR7	Stand-alone drive	NEMA 1	41A	16 x 62 x 12	406 x 1575 x 330	77.2 b	35 kg
NXS0400C1204/U	40 HP	FR7	Stand-alone drive	NEMA 12	41A	9.3 x 23.3 x 10.1	236 x 520 x 257	77.2 b	35 kg
NXS0500C1005/U	50 HP	FR7	Stand-alone drive	NEMA 1	52A	16 x 62 x 12	406 x 1575 x 330	77.2 b	35 kg
NXS0500C1203/U	50 HP	FR7	Stand-alone drive	NEMA 12	52A	16 x 62 x 12	406 x 1575 x 330	77.2 b	35 kg
NXS0600C1004/U	60 HP	FR8	Stand-alone drive	NEMA 1	62A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 b	58.0 kg
NXS0600C1202/U	60 HP	FR8	Stand-alone drive	NEMA 12	62A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 b	58.0 kg
NXS0750C1002/U	75 HP	FR8	Stand-alone drive	NEMA 1	80A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 b	58.0 kg
NXS0750C1200/U	75 HP	FR8	Stand-alone drive	NEMA 12	80A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 b	58.0 kg
NXS1000C1008/U	100 HP	FR8	Stand-alone drive	NEMA 1	100A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 b	58.0 kg
NXS1000C1206/U	100 HP	FR8	Stand-alone drive	NEMA 12	100A	11.2 x 28.4 x 12.3	285 x 721 x 312	127.9 b	58.0 kg
NXS1250C1005/U	125 HP	FR9	Stand-alone drive	NEMA 1	125A	18.9 x 45.3 x 14.3	480 x 1150 x 362	321.9 b	146 kg
NXS1250C1203/U	125 HP	FR9	Stand-alone drive	NEMA 12	125A	18.9 x 45.3 x 14.3	480 x 1150 x 362	321.9 b	146 kg
NXS1500C1003/U	150 HP	FR9	Stand-alone drive	NEMA 1	144A	18.9 x 45.3 x 14.3	480 x 1150 x 362	321.9 b	146 kg
NXS1500C1201/U	150 HP	FR9	Stand-alone drive	NEMA 12	144A	18.9 x 45.3 x 14.3	480 x 1150 x 362	321.9 b	146 kg
NXS2000C1006/U	200 HP	FR9	Stand-alone drive	NEMA 1	208A	18.9 x 45.3 x 14.3	480 x 1150 x 362	321.9 b	146 kg
NXS2000C1204/U	200 HP	FR9	Stand-alone drive	NEMA 12	208A	18.9 x 45.3 x 14.3	480 x 1150 x 362	321.9 b	146 kg