

# VFD Product Catalog



## NX Series Variable Frequency Drives

**Honeywell**

# Variable Frequency Drives

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# Variable Frequency Drives

## Features of the Drive: Broad Application, Simple Startup, Long Life

### **NX Series features include:**

- Integrated AC choke for maximum protection and minimum harmonics
- Integral RFI filter for residential and light commercial as well industrial
- Factory tested at maximum temperature and load
- Flexibility in communication with multiple fieldbus options: LONWORKS®, N2/Modbus®, DeviceNet, BACnet® and ProfiBus
- Highly flexible I/O configuration
- Multi-application software package pre-installed
- Versatile PC tools for loading, adjusting and comparing parameters
- Slim, space-saving "bookshelf" design for side-by-side installation
- Continuous self-supervising runtime and alarm system enhances reliability and safety
- Control logic can be powered from an external auxiliary supply, maintaining power to the control panel, internal drive functions and fieldbuses while the power module is down
- Configurations and applications can be transferred between drives
- Multilingual control display

Years of experience are behind the design and manufacture of these reliable, robust drives.

The NX Series extends the CX Series' reputation for reliability, with the same high level of resistance to electromagnetic interference. The NXS and NXL control units incorporate the same application packages, control panels, I/O cards and can connect to the same PC tools package. Easy programming and commissioning simplify start-up. The NX default control I/O includes the most common control inputs and outputs. For maximum compatibility, the wiring terminals of the NX Series match the previous CX Series settings. Setting parameters is easy too, using either the control panel or the PC tools for the NX.

An optimal solution is available for most application needs. The modular design allows the choice of only the needed functions and features for specific applications. A wide selection of option cards offers new possibilities for future reconfigurations.

From simple HVAC applications to closed loop process control applications, the Honeywell NX Series is the right Variable Frequency Drive (VFD) for all scenarios.

You can depend on an NX Series drive to control anything from simple fans, pumps, and compressors to elevators, cranes, or winders. NXS models offer the greatest application versatility for multiple control applications. NXL models meet simple application needs in the low-horsepower range.

Together, these versatile performers feature modular, easily adaptable hardware, precise semiconductor technology and a flexible, pre-installed application package that supports a fieldbus system. That makes NX Series drives the single best solution for a wide range of HVAC and industrial applications.

### **For Distributors/Contractors**

For the distributor or contractor, the NX Series offers a range of new application capabilities that help keep stock to a minimum and speed installation.

Since the NX is a functional replacement for its predecessor, the CX Series, existing drawings, installation and training material can be easily adapted. In addition, a wide selection of option cards offers new possibilities for reconfiguring the drive to future requirements. The wide voltage range, high overload capacity, and a user friendly alphanumeric display on the control panel make choosing and opening the correct drive very easy.

### **For OEM Customers**

For the OEM customer, the modular construction and wide selection of option cards make the NX Series a drive that can be easily incorporated into almost any application. The versatile programming tool enables easy and seamless integration into your existing control strategy, and the onboard intelligence means the drive can replace the local controller.

### **For System Designers**

The flexible I/O configuration and the dynamic performance of the NX Series make it ideal for a wide range of system applications, including drives used in HVAC and industrial markets. The NX Series can be configured to operate with several different fieldbuses, making it easy to communicate with a variety of control systems. The powerful control unit can be used for local control tasks, freeing the control system for general control tasks and minimizing the total number of controllers necessary for a complete automation solution.

# Variable Frequency Drives

## Honeywell NX Series Variable Frequency Drives



- Fan easy to replace Software controlled On/Off
- All metal main circuit module
- Removable keypad with copy function
- RS-232 interface as standard
- Control module with extended 24 Vdc supply
- Control I/O with 5 option modules
- Power wiring box separated

## PICK THE RIGHT VFD FOR THE APPLICATION

### Choice of Drives

All drives are dimensioned using the same principle, i.e. the current required by the load. The selection of the drive is determined by the degree of overload capacity required and the ambient temperature.

Overload conditions have been defined:

**Low overload – 10% for 1 minute every 10 minutes, 150% starting torque, 40°C ambient temperature.** Typical applications include centrifugal fans and pumps as well as rotary compressors with slow variations in load.

### General Selection Tips

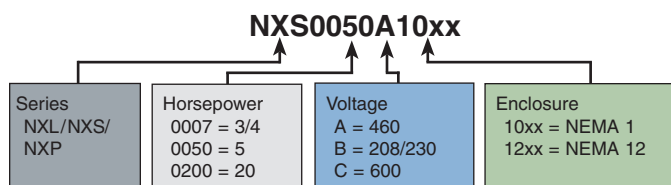
When selecting by Hp — and the drive is to be used with a motor with 8 poles or more — verify the current capacity of the drive is sufficient. The NX drives are suitable for multi-motor applications. The total value of the rated motor currents must then be less than the rated drive current.

If the motors are required to start on a running drive, the starting current of the largest motor must be added to the total value of the running currents.

### NX Series — Drive Only

| Dimension and Weight by Frame Size |                                 |              |
|------------------------------------|---------------------------------|--------------|
| Frame                              | Width x Height x Depth (Inches) | Weight (lb.) |
| MF2                                | 2.4 x 5.1 x 5.9                 | 2.2          |
| MF3                                | 3.3 x 7.3 x 6.9                 | 4.2          |
| MF4 / FR4                          | 5 x 11.5 x 7.5                  | 11           |
| MF5 / FR5                          | 5.7 x 15.4 x 8.4                | 17.9         |
| MF6 / FR6                          | 7.7 x 20.4 x 9.3                | 40.8         |
| FR7                                | 9.3 x 23.3 x 10.1               | 77.2         |
| FR8                                | 11.2 x 28.4 x 12.3              | 127.9        |
| FR9                                | 18.9 x 45.3 x 14.3              | 321.9        |
| FR10                               | 23.4 x 79.5 x 23.4              | 661.1        |

Note: MF2-MF6 and FR4-FR9 Wall Mounted. FR10 Free Standing Floor Mounted.



### NXL 208-240V

| OPEN CHASSIS | Motor shaft power (230V) and current |       | Frame Size — Drive Only |
|--------------|--------------------------------------|-------|-------------------------|
|              | Low overload (VT)                    |       |                         |
|              | P [Hp] (230V)                        | I (L) |                         |
| NXL0005B1006 | 0.5                                  | 2.4 A | MF2                     |
| NXL0010B1009 | 1                                    | 4.8 A | MF3                     |
| NXL0015B1004 | 1.5                                  | 6.6 A | MF3                     |
| NXL0020B1007 | 2                                    | 6.6 A | MP3                     |

### NXL 380-500V

| OPEN CHASSIS | NEMA 1       | NEMA 12      | Motor shaft power (500V) and current |       | Frame Size — Drive Only |
|--------------|--------------|--------------|--------------------------------------|-------|-------------------------|
|              |              |              | Low overload (VT)                    |       |                         |
|              |              |              | P [Hp] (500V)                        | I (L) |                         |
| NXL0007A1006 | ——           | ——           | 0.75                                 | 1.9 A | MF2                     |
| NXL0010A1001 | ——           | ——           | 1                                    | 2.4 A | MF2                     |
| NXL0015A1006 | ——           | ——           | 1.5                                  | 3.3 A | MF3                     |
| NXL0020A1009 | ——           | ——           | 2                                    | 4.3 A | MF3                     |
| NXL0030A1007 | ——           | ——           | 3                                    | 5.4 A | MF3                     |
| ——           | NXL0015A1014 | NXL0015A1204 | 1.5                                  | 3.3 A | MF3                     |
| ——           | NXL0020A1017 | NXL0020A1207 | 2                                    | 4.3 A | MF3                     |
| ——           | NXL0030A1015 | NXL0030A1205 | 3                                    | 5.4 A | MF3                     |
| ——           | NXL0040A1005 | NXL0040A1203 | 4                                    | 7.6 A | MF4                     |
| ——           | NXL0050A1002 | NXL0050A1200 | 5                                    | 9 A   | MF4                     |
| ——           | NXL0075A1003 | NXL0075A1201 | 7.5                                  | 12 A  | MF4                     |
| ——           | NXL0100A1002 | NXL0100A1200 | 10                                   | 16 A  | MF5                     |
| ——           | NXL0150A1001 | NXL0150A1209 | 15                                   | 23 A  | MF5                     |
| ——           | NXL0200A1001 | NXL0200A1209 | 20                                   | 31 A  | MF5                     |
| ——           | NXL0250A1000 | NXL0250A1208 | 25                                   | 38 A  | MF6                     |
| ——           | NXL0300A1000 | NXL0300A1208 | 30                                   | 46 A  | MF6                     |
| ——           | NXL0400A1009 | NXL0400A1207 | 40                                   | 61 A  | MF6                     |

# NXS 208-240V

| NEMA 1       | NEMA 12      | Motor shaft power (230V) and current |        | Frame Size — Drive Only |
|--------------|--------------|--------------------------------------|--------|-------------------------|
|              |              | Low overload (VT)                    |        |                         |
|              |              | P [Hp] (230V)                        | I (L)  |                         |
| NXS0010B1000 | NXS0010B1208 | 1                                    | 4.8 A  | FR4                     |
| NXS0015B1005 | NXS0015B1203 | 1.5                                  | 6.6 A  | FR4                     |
| NXS0020B1008 | NXS0020B1206 | 2                                    | 7.8 A  | FR4                     |
| NXS0030B1006 | NXS0030B1204 | 3                                    | 11 A   | FR4                     |
| NXS0040B1004 | NXS0040B1202 | 4                                    | 12.5 A | FR4                     |
| NXS0050B1001 | NXS0050B1209 | 5                                    | 17.5 A | FR5                     |
| NXS0075B1002 | NXS0075B1200 | 7.5                                  | 25 A   | FR5                     |
| NXS0100B1001 | NXS0100B1209 | 10                                   | 31 A   | FR5                     |
| NXS0150B1000 | NXS0150B1208 | 15                                   | 48 A   | FR6                     |
| NXS0200B1000 | NXS0200B1208 | 20                                   | 61 A   | FR6                     |
| NXS0250B1009 | NXS0250B1207 | 25                                   | 75 A   | FR7                     |
| NXS0300B1009 | NXS0300B1207 | 30                                   | 88 A   | FR7                     |
| NXS0400B1008 | NXS0400B1206 | 40                                   | 114 A  | FR7                     |
| NXS0500B1007 | NXS0500B1205 | 50                                   | 140 A  | FR8                     |
| NXS0600B1006 | NXS0600B1204 | 60                                   | 170 A  | FR8                     |
| NXS0750B1004 | NXS0750B1202 | 75                                   | 205 A  | FR8                     |
| NXS1000B1000 | NXS1000B1208 | 100                                  | 261 A  | FR9                     |
| NXS1250B1007 | NXS1250B1205 | 125                                  | 300 A  | FR9                     |

# NXS/P 380-500V

| NEMA 1       | NEMA 12      | Motor shaft power (500V) and current |       | Frame Size — Drive Only |
|--------------|--------------|--------------------------------------|-------|-------------------------|
|              |              | Low overload (VT)                    |       |                         |
|              |              | P [Hp] (500V)                        | I (L) |                         |
| NXS0015A1007 | NXS0015A1205 | 1.5                                  | 3.3 A | FR4                     |
| NXS0020A1000 | NXS0020A1208 | 2                                    | 4.3 A | FR4                     |
| NXS0030A1008 | NXS0030A1206 | 3                                    | 5.6 A | FR4                     |
| NXS0040A1006 | NXS0040A1204 | 4                                    | 7.6 A | FR4                     |
| NXS0050A1003 | NXS0050A1201 | 5                                    | 9 A   | FR4                     |
| NXS0075A1004 | NXS0075A1202 | 7.5                                  | 12 A  | FR4                     |
| NXS0100A1003 | NXS0100A1201 | 10                                   | 16 A  | FR5                     |
| NXS0150A1002 | NXS0150A1200 | 15                                   | 23 A  | FR5                     |
| NXS0200A1002 | NXS0200A1200 | 20                                   | 31 A  | FR5                     |
| NXS0250A1001 | NXS0250A1209 | 25                                   | 38 A  | FR6                     |
| NXS0300A1001 | NXS0300A1209 | 30                                   | 46 A  | FR6                     |
| NXS0400A1000 | NXS0400A1208 | 40                                   | 61 A  | FR6                     |
| NXS0500A1009 | NXS0500A1207 | 50                                   | 72 A  | FR7                     |
| NXS0600A1008 | NXS0600A1206 | 60                                   | 87 A  | FR7                     |
| NXS0750A1006 | NXS0750A1204 | 75                                   | 105 A | FR7                     |
| NXS1000A1002 | NXS1000A1200 | 100                                  | 140 A | FR8                     |
| NXS1250A1009 | NXS1250A1207 | 125                                  | 170 A | FR8                     |
| NXS1500A1007 | NXS1500A1205 | 150                                  | 205 A | FR8                     |
| NXS2000A1000 | —            | 200                                  | 261 A | FR9                     |
| NXP2500A1005 | —            | 250                                  | 300 A | FR9                     |
| NXP3000A1003 | —            | 300                                  | 385 A | FR10                    |
| NXP3500A1008 | —            | 350                                  | 460 A | FR10                    |
| NXP4500A1006 | —            | 450                                  | 520 A | FR10                    |

# NXS 525-690V

| NEMA 1       | NEMA12       | Motor shaft power (230V) and current |        | Frame Size — Drive Only |
|--------------|--------------|--------------------------------------|--------|-------------------------|
|              |              | Low overload (VT)                    |        |                         |
|              |              | P [Hp] (230V)                        | I (L)  |                         |
| NXS0030C1004 | NXS0030C1202 | 3                                    | 4.5 A  | FR6                     |
| NXS0040C1002 | NXS0040C1200 | 4                                    | 5.5 A  | FR6                     |
| NXS0050C1009 | NXS0050C1207 | 5                                    | 7.5 A  | FR6                     |
| NXS0075C1000 | NXS0075C1208 | 7.5                                  | 10 A   | FR6                     |
| NXS0100C1009 | NXS0100C1207 | 10                                   | 13.5 A | FR6                     |
| NXS0150C1008 | NXS0150C1206 | 15                                   | 18 A   | FR6                     |
| NXS0200C1008 | NXS0200C1206 | 20                                   | 22 A   | FR6                     |
| NXS0250C1007 | NXS0250C1205 | 25                                   | 27 A   | FR6                     |
| NXS0300C1007 | NXS0300C1205 | 30                                   | 34 A   | FR6                     |
| NXS0400C1006 | NXS0400C1204 | 40                                   | 41 A   | FR7                     |
| NXS0500C1005 | NXS0500C1203 | 50                                   | 52 A   | FR7                     |
| NXS0600C1004 | NXS0600C1202 | 60                                   | 62 A   | FR8                     |
| NXS0750C1002 | NXS0750C1200 | 75                                   | 80 A   | FR8                     |
| NXS1000C1008 | NXS1000C1206 | 100                                  | 100 A  | FR8                     |
| NXS1250C1005 | NXS1250C1203 | 125                                  | 125 A  | FR9                     |
| NXS1500C1003 | NXS1500C1201 | 150                                  | 144 A  | FR9                     |
| NXS2000C1006 | NXS2000C1204 | 200                                  | 208 A  | FR9                     |

# VARIABLE FREQUENCY DRIVE ACCESSORIES

|                                 | Honeywell<br>Part Number | Description                                                           | Compatible With | NXS Slot   |
|---------------------------------|--------------------------|-----------------------------------------------------------------------|-----------------|------------|
| Input/Output<br>Expansion Cards | 32006630-001             | Lonbus Card                                                           | NXS/P and NXL   | D,E        |
|                                 | 32006630-002             | Multi-Protocol Card                                                   | NXS/P and NXL   | D,E        |
|                                 | 2006630-003              | 2 Relay Outputs (NO/NC)                                               | NXS/P           | B          |
|                                 | 32006630-004             | 6 Digital Inputs/Outputs Programmable                                 | NXS/P and NXL   | B,C,D,E    |
|                                 | 32006630-005             | 6 Digital Inputs, 1 Digital Output, 2 Analog Inputs, 1 Analog Output  | NXS/P           | A          |
|                                 | 32006630-006             | 1 Relay Output (NO/NC), 1 Relay Output (NO), 1 Thermistor Input Motor | NXS/P           | B          |
|                                 | 32006630-007             | 3 Relay Outputs (NO)                                                  | NXS/P and NXL   | B,C,D      |
|                                 | 32006630-008             | 1 Analog Input (mA), 2 Analog Outputs (mA)                            | NXS/P and NXL   | B,C,D,E    |
|                                 | 32006630-009             | NXL Option Card, 3DI, 1 RO (NO/NC), 1 DO                              | NXL             |            |
|                                 | 32006630-010             | Profibus Card                                                         | NXS/P and NXL   | D, E       |
|                                 | 32006630-011             | Device Net Card                                                       | NXS/P and NXL   | D, E       |
|                                 | 32006630-012             | 1 Ro (NO) 5 DI, 41-240 VAC                                            | NXS/P/NXL       | B, C, D, E |
|                                 | 32006630-013             | BACnet Card                                                           | NXS/P and NXL   | D,E        |
| Miscellaneous<br>Accessories    | 32004193-002             | Alphanumeric Display                                                  | CXS/CXL         |            |
|                                 | 32006627-001             | RFI Filter for NXL Units up to 3HP                                    | NXL             |            |
|                                 | 32006628-001             | Panel Mount Kit, NEMA 12, Six Foot Cable                              | NXS/P           |            |
|                                 | 32006629-001             | Blank Display                                                         | NXS/P           |            |
|                                 | 32006629-002             | Alphanumeric Display                                                  | NXS/P           |            |
|                                 | 32006629-003             | Seven Segment Display for NXL                                         | NXL             |            |
|                                 | 32006629-004             | NXL RS232 Adapter                                                     | NXL             |            |
|                                 | 32006662-001             | NXL Demonstration Kit                                                 | NXL             |            |
|                                 | 32006662-002             | NXS Demonstration Kit                                                 | NXS/P           |            |

## NXL Variable Frequency Drives



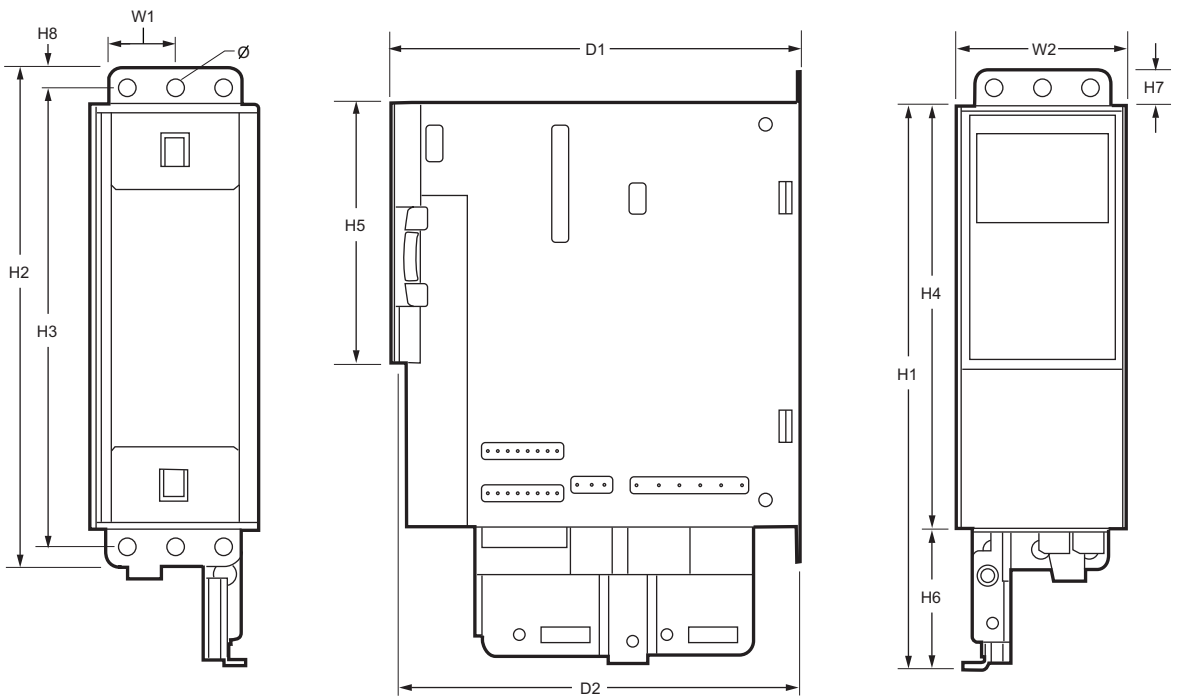
Variable Frequency Drives (VFD) accept a control input and then output tailored PWM control signal to operate (motors, fans, pumps, etc.) with maximum efficiency. The VFD can be field-programmed without any extra devices or computer connections.

- Multi-Control applications built in.
- Easy commissioning through software or control panel.
- Devices can be wall-mounted or panel-mounted.
- Eleven protective functions (see Form 63-2599, Users Manual, Technical Data sections).
- Open Chassis, NEMA 1 and NEMA 12 enclosures.
- Compact Size.
- Insulated gate bi-polar transistor (IGBT) technology.
- Modbus Standard

|                           |                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------|
| Drive Family              | NXL                                                                                                     |
| 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                                                                                |
| Continuos Output Current: | overload 1.5 x High overload current (1min/10min)<br>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 Current:         | 2 x high overload current, 2 seconds every 20 seconds                                                   |
| Starting Torque:          | 200% High; 150% Low                                                                                     |
| Frequency:                | 0 Hz to 320 Hz                                                                                          |
| Operating Temperature:    | High Overload 14 to 122; Low Overload 14 to 104;<br>(High Overload -10 to 50); (Low Overload -10 to 40) |
| Type of RFI Filter:       | Industrial filter                                                                                       |
| Layout:                   | Stand-alone drive                                                                                       |
| Bypass:                   | Drive only, no bypass                                                                                   |

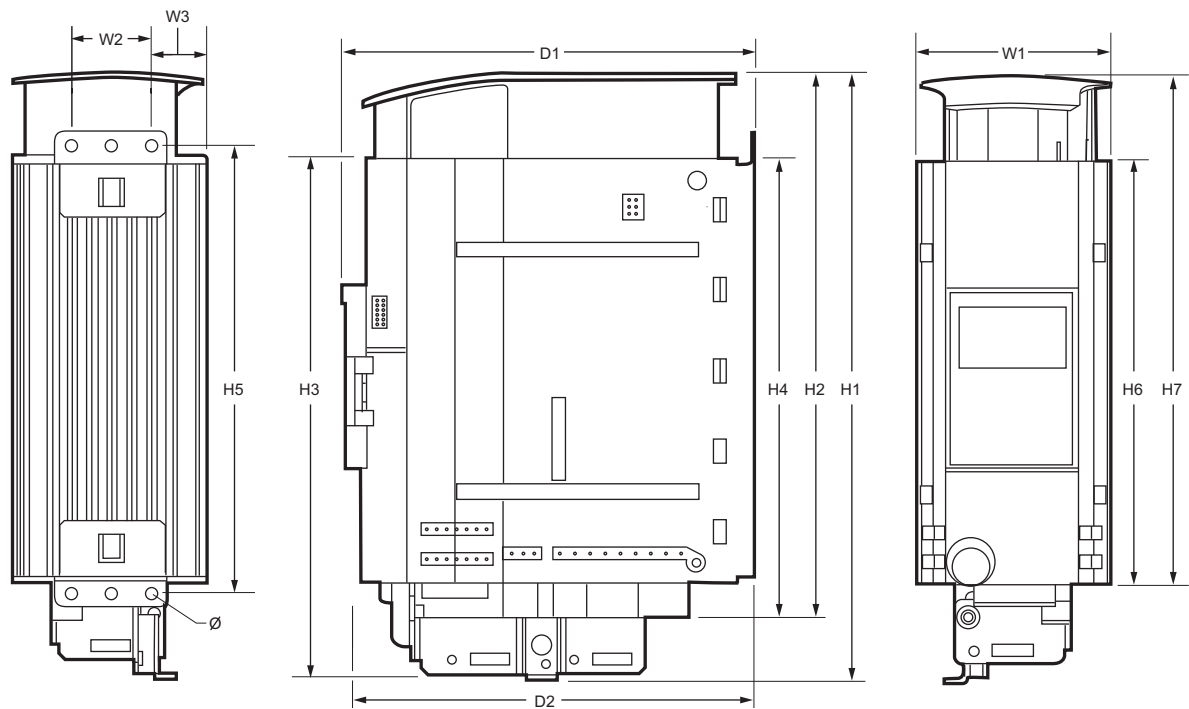
# Variable Frequency Drives

## Dimensions Diagram



| TYPE | DIMENSIONS (INCH) |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | MF2               | W1   | W2   | H1   | H2   | H3   | H4   | H5   | H6   | H7   | H8   | D1   | D2   | Ø    |
|      |                   | 1.18 | 2.36 | 6.77 | 5.98 | 5.51 | 5.12 | 3.15 | 1.65 | 0.43 | 0.24 | 5.91 | 5.67 | 0.24 |

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| TYPE | DIMENSIONS (INCH) |      |      |      |       |      |      |      |      |      |      |      |      |      |
|------|-------------------|------|------|------|-------|------|------|------|------|------|------|------|------|------|
|      | MF3               | W1   | W2   | W3   | H1    | H2   | H3   | H4   | H5   | H6   | H7   | D1   | D2   | Ø    |
|      |                   | 1.31 | 1.38 | 0.91 | 10.31 | 9.25 | 8.78 | 7.83 | 7.60 | 7.24 | 8.66 | 6.77 | 6.54 | 0.24 |

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# Variable Frequency Drives

## 208/230 Volt - Open Chassis

| Product Number | Horsepower | Frame Type | Amp Rating, lvt (A) | Dimensions, Approximate |                      | Weight  |         |
|----------------|------------|------------|---------------------|-------------------------|----------------------|---------|---------|
|                |            |            |                     | (inch)                  | (mm)                 | (lb)    | (kg)    |
| NXL0005B1006   | 0.5 HP     | MF2        | 2.4 A               | 2.4 x 5.1 x 5.9         | 61 x 130 x 150       | 2.2 lb  | 0.99 kg |
| NXL0007B1004   | 0.75 HP    | MF3        | 3.7 A               | 3.3 x 7.3 x 6.9         | 83.8 x 185.4 x 175.3 | 4.19 lb | 1.9 kg  |
| NXL0010B1009   | 1 HP       | MF3        | 4.8 A               | 3.3 x 7.3 x 6.9         | 83.8 x 185.4 x 175.3 | 4.19 lb | 1.9 kg  |
| NXL0015B1004   | 1.5 HP     | MF3        | 6.6 A               | 3.3 x 7.3 x 6.9         | 83.8 x 185.4 x 175.3 | 4.19 lb | 1.9 kg  |

## 480 Volt - Open Chassis

| Product Number | Horsepower | Frame Type | Amp Rating, lvt (A) | Dimensions, Approximate |                      | Weight  |         |
|----------------|------------|------------|---------------------|-------------------------|----------------------|---------|---------|
|                |            |            |                     | (inch)                  | (mm)                 | (lb)    | (kg)    |
| NXL0007A1006   | 0.75 HP    | MF2        | 1.9 A               | 2.4 x 5.1 x 5.9         | 61 x 130 x 150       | 2.2 lb  | 0.99 kg |
| NXL0010A1001   | 1 HP       | MF2        | 2.4 A               | 2.4 x 5.1 x 5.9         | 61 x 130 x 150       | 2.2 lb  | 0.99 kg |
| NXL0015A1006   | 1.5 HP     | MF3        | 3.3 A               | 3.3 x 7.3 x 6.9         | 83.8 x 185.4 x 175.3 | 4.19 lb | 1.9 kg  |
| NXL0020A1009   | 2 HP       | MF3        | 4.3 A               | 3.3 x 7.3 x 6.9         | 83.8 x 185.4 x 175.3 | 4.19 lb | 1.9 kg  |

## 480 Volt - NEMA 1 Enclosure

| Product Number | Horsepower | Frame Type | Amp Rating, lvt (A) | Dimensions, Approximate |                 | Weight  |         |
|----------------|------------|------------|---------------------|-------------------------|-----------------|---------|---------|
|                |            |            |                     | (inch)                  | (mm)            | (lb)    | (kg)    |
| NXL0015A1014   | 1.5 HP     | MF3        | 3.3 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0020A1017   | 2 HP       | MF3        | 4.3 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0030A1015   | 3 HP       | MF3        | 5.6 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0040A1005   | 4 HP       | MF4        | 7.6 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0050A1002   | 5 HP       | MF4        | 9.0 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0075A1003   | 7.5 HP     | MF4        | 12.0 A              | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0100A1002   | 10 HP      | MF5        | 16.0 A              | 5.7 x 15.4 x 8.4        | 144 x 391 x 214 | 17.9 lb | 8.1 kg  |
| NXL0150A1001   | 15 HP      | MF5        | 23.0 A              | 5.7 x 15.4 x 8.4        | 144 x 391 x 214 | 17.9 lb | 8.1 kg  |
| NXL0200A1001   | 20 HP      | MF5        | 31.0 A              | 5.7 x 15.4 x 8.4        | 144 x 391 x 214 | 17.9 lb | 8.1 kg  |
| NXL0250A1000   | 25 HP      | MF6        | 38.0 A              | 7.7 x 20.4 x 9.1        | 195 x 519 x 237 | 41.8 lb | 19.0 kg |
| NXL0300A1000   | 30 HP      | MF6        | 46.0 A              | 7.7 x 20.4 x 9.2        | 195 x 519 x 237 | 41.8 lb | 19.0 kg |
| NXL0400A1009   | 40 HP      | MF6        | 61.0 A              | 7.7 x 20.4 x 9.3        | 195 x 519 x 237 | 41.8 lb | 19.0 kg |

## 480 Volt - NEMA 12 Enclosure

| Product Number | Horsepower | Frame Type | Amp Rating, lvt (A) | Dimensions, Approximate |                 | Weight  |         |
|----------------|------------|------------|---------------------|-------------------------|-----------------|---------|---------|
|                |            |            |                     | (inch)                  | (mm)            | (lb)    | (kg)    |
| NXL0015A1204   | 1.5 HP     | MF3        | 3.3 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0100A1200   | 10 HP      | MF5        | 16.0 A              | 5.7 x 15.4 x 8.4        | 144 x 391 x 214 | 17.9 lb | 8.1 kg  |
| NXL0150A1209   | 15 HP      | MF5        | 23.0 A              | 5.7 x 15.4 x 8.4        | 144 x 391 x 214 | 17.9 lb | 8.1 kg  |
| NXL0020A1207   | 2 HP       | MF3        | 4.3 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0200A1209   | 20 HP      | MF5        | 31.0 A              | 5.7 x 15.4 x 8.4        | 144 x 391 x 214 | 17.9 lb | 8.1 kg  |
| NXL0250A1208   | 25 HP      | MF6        | 38.0 A              | 7.7 x 20.4 x 9.1        | 195 x 519 x 237 | 41.8 lb | 19.0 kg |
| NXL0030A1205   | 3 HP       | MF3        | 5.6 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0300A1208   | 30 HP      | MF6        | 46.0 A              | 7.7 x 20.4 x 9.2        | 195 x 519 x 237 | 41.8 lb | 19.0 kg |
| NXL0040A1203   | 4 HP       | MF4        | 7.6 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0400A1207   | 40 HP      | MF6        | 61.0 A              | 7.7 x 20.4 x 9.3        | 195 x 519 x 237 | 41.8 lb | 19.0 kg |
| NXL0050A1200   | 5 HP       | MF4        | 9.0 A               | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |
| NXL0075A1201   | 7.5 HP     | MF4        | 12.0 A              | 5 x 11.5 x 7.5          | 128 x 292 x 190 | 11 lb   | 5.0 kg  |

# Variable Frequency Drives

## NXP Variable Frequency Drives

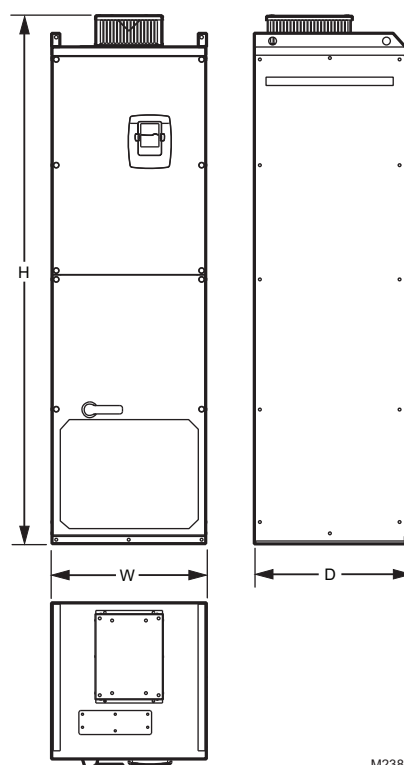


Variable Frequency Drives (VFD) accept a control input and then output tailored PWM control signal to operate (motors, fans, pumps, etc.) with maximum efficiency. The VFD can be field-programmed without any extra devices or computer connections

- Seven configurable applications built in.
- Easy commissioning through software or control panel.
- Devices are free-standing to ensure secure installation.
- Insulated gate bi-polar transistor (IGBT) technology.

|                           |                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------|
| Drive Family              | NXP                                                                                                           |
| 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);<br>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 Current          | 2 x high overload current, 2 seconds every 20 seconds                                                         |
| Starting Torque           | 200% High; 150% Low                                                                                           |
| Frequency                 | 0 Hz to 320 Hz                                                                                                |
| Operating Temperature     | High Overload 14 to 122;<br>Low Overload 14 to 104;<br>(High Overload -10 to 50);<br>(Low Overload -10 to 40) |
| Type of RFI Filter        | Industrial filter                                                                                             |
| Layout                    | Stand-alone drive                                                                                             |
| Bypass                    | Drive only, no bypass                                                                                         |

### Dimensions Diagram



M23816

### 460 Volt - NEMA 1 Enclosure

| Product Number | Horsepower | Frame Type | Amp Rating, lvt (A) | Dimensions, Approximate |                  | Weight    |          |
|----------------|------------|------------|---------------------|-------------------------|------------------|-----------|----------|
|                |            |            |                     | (inch)                  | (mm)             | (lb)      | (kg)     |
| NXP3000A1003   | 300 HP     | FR10       | 385 A               | 23.4 x 79.5 x 23.7      | 595 x 2018 x 602 | 595.25 lb | 270.0 kg |
| NXP3500A1008   | 350 HP     | FR10       | 460 A               | 23.4 x 79.5 x 23.7      | 595 x 2018 x 602 | 595.25 lb | 270.0 kg |
| NXP4500A1006   | 450 HP     | FR10       | 520 A               | 23.4 x 79.5 x 23.7      | 595 x 2018 x 602 | 595.25 lb | 270.0 kg |

# Variable Frequency Drives

## NXS Variable Frequency Drives

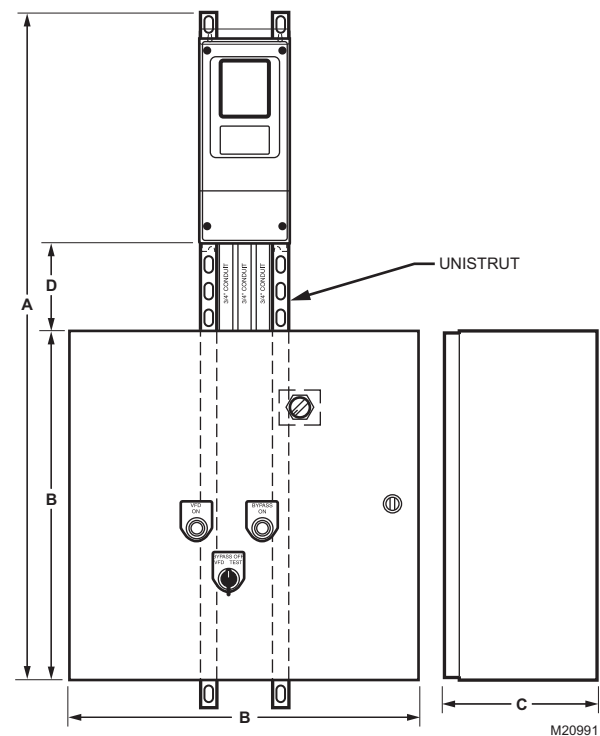


Variable Frequency Drives (VFD) accept a control input and then output tailored PWM control signal to operate (fans, pumps, etc.) with maximum efficiency. The VFD can be field-programmed without any extra devices or computer connections.

- 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, Profibus, LdbBus, 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                                                                                      |
| Continuos Output Current ..... | overload 1.5 x High overload current (1min/10min)<br>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 Current .....         | 2 x high overload current, 2 seconds every 20 seconds                                                         |
| Starting Torque .....          | 200% High; 150% Low                                                                                           |
| Frequency .....                | 0 Hz to 320 Hz                                                                                                |
| Operating Temperature .....    | High Overload 14 to 122;<br>Low Overload 14 to 104;<br>(High Overload -10 to 50);<br>(Low Overload -10 to 40) |
| Type of RFI Filter .....       | Industrial filter                                                                                             |
| Layout .....                   | Stand-alone drive                                                                                             |
| Bypass .....                   | Drive only, no bypass                                                                                         |

### Dimensions Diagram



See also page 8 and page 10

### 208/230 Volt

| Product Number | Horsepower | Frame Type | Type of Enclosure | Amp Rating, lvt (A) | Dimensions, Approximate |                       | Weight |         |
|----------------|------------|------------|-------------------|---------------------|-------------------------|-----------------------|--------|---------|
|                |            |            |                   |                     | (inch)                  | (mm)                  | (lb)   | (kg)    |
| NXS0010B1000   | 1 HP       | FR4        | NEMA 1            | 4.8 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb  | 5.0 kg  |
| NXS0010B1208   | 1 HP       | FR4        | NEMA 12           | 4.8 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb  | 5.0 kg  |
| NXS0015B1005   | 1.5 HP     | FR4        | NEMA 1            | 6.6 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb  | 5.0 kg  |
| NXS0015B1203   | 1.5 HP     | FR4        | NEMA 12           | 6.6 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb  | 5.0 kg  |
| NXS0020B1008   | 2 HP       | FR4        | NEMA 1            | 7.8 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb  | 5.0 kg  |
| NXS0020S1206   | 2 HP       | FR4        | NEMA 12           | 7.8 A               | 16 x 33.5 x 7           | 406 x 850 x 178       | 44 lb  | 20.0 kg |

# Variable Frequency Drives

| Product Number | Horsepower | Frame Type | Type of Enclosure | Amp Rating, lvt (A) | Dimensions, Approximate |                       | Weight   |         |
|----------------|------------|------------|-------------------|---------------------|-------------------------|-----------------------|----------|---------|
|                |            |            |                   |                     | (inch)                  | (mm)                  | (lb)     | (kg)    |
| NXS0020B1206   | 2 HP       | FR4        | NEMA 12           | 7.8 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb    | 5.0 kg  |
| NXS0030B1006   | 3 HP       | FR4        | NEMA 1            | 11.0 A              | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb    | 5.0 kg  |
| NXS0030B1204   | 3 HP       | FR4        | NEMA 12           | 11.0 A              | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb    | 5.0 kg  |
| NXS0040B1004   | 4 HP       | FR4        | NEMA 1            | 12.5 A              | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 17.9 lb  | 8.1 kg  |
| NXS0040B1202   | 4 HP       | FR4        | NEMA 12           | 12.5 A              | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 17.9 lb  | 8.1 kg  |
| NXS0050B1001   | 5 HP       | FR5        | NEMA 1            | 17.5 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb  | 8.1 kg  |
| NXS0050B1209   | 5 HP       | FR5        | NEMA 12           | 17.5 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb  | 8.1 kg  |
| NXS0075B1002   | 7.5 HP     | FR5        | NEMA 1            | 25 A                | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb  | 8.1 kg  |
| NXS0075B1200   | 7.5 HP     | FR5        | NEMA 12           | 25 A                | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb  | 8.1 kg  |
| NXS0100S1001   | 10 HP      | FR5        | NEMA 1            | 31.0 A              | 11 x 46 x 11            | 279 x 1168 x 279      | 62 lb    | 28.1 kg |
| NXS0100B1001   | 10 HP      | FR5        | NEMA 1            | 31.0 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 40.8 lb  | 18.5 kg |
| NXS0100B1209   | 10 HP      | FR5        | NEMA 12           | 31.0 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 40.8 lb  | 18.5 kg |
| NXS0150B1000   | 15 HP      | FR6        | NEMA 1            | 48 A                | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0150B1208   | 15 HP      | FR6        | NEMA 12           | 48 A                | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0200B1000   | 20 HP      | FR6        | NEMA 1            | 61.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 77.2 lb  | 35.0 kg |
| NXS0200B1208   | 20 HP      | FR6        | NEMA 12           | 61.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 77.2 lb  | 35.0 kg |
| NXS0250B1009   | 25 HP      | FR7        | NEMA 1            | 75 A                | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg |
| NXS0250B1207   | 25 HP      | FR7        | NEMA 12           | 75 A                | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg |
| NXS0300B1009   | 30 HP      | FR7        | NEMA 1            | 88 A                | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg |
| NXS0400B1008   | 40 HP      | FR8        | NEMA 1            | 114 A               | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 127.9 lb | 58.0 kg |
| NXS0400B1206   | 40 HP      | FR8        | NEMA 12           | 114 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |
| NXS0500B1007   | 50 HP      | FR8        | NEMA 1            | 143 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |
| NXS0500B1205   | 50 HP      | FR8        | NEMA 12           | 143 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |
| NXS0600B1006   | 60 HP      | FR8        | NEMA 1            | 169 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |
| NXS0600B1204   | 60 HP      | FR8        | NEMA 12           | 169 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |
| NXS0750B1004   | 75 HP      | FR8        | NEMA 1            | 205 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |

## 460 Volt

| Product Number | Horsepower | Frame Type | Type of Enclosure | Amp Rating, lvt (A) | Dimensions, Approximate |                       | Weight  |         |
|----------------|------------|------------|-------------------|---------------------|-------------------------|-----------------------|---------|---------|
|                |            |            |                   |                     | (inch)                  | (mm)                  | (lb)    | (kg)    |
| NXS0015A1007   | 1.5 HP     | FR4        | NEMA 1            | 3.3 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0015A1205   | 1.5 HP     | FR4        | NEMA 12           | 3.3 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0020A1000   | 2 HP       | FR4        | NEMA 1            | 4.3 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0020A1208   | 2 HP       | FR4        | NEMA 12           | 4.3 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0030A1008   | 3 HP       | FR4        | NEMA 1            | 5.6 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0030A1206   | 3 HP       | FR4        | NEMA 12           | 5.6 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0040A1006   | 4 HP       | FR4        | NEMA 1            | 7.6 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0040A1204   | 4 HP       | FR4        | NEMA 12           | 7.6 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0050A1003   | 5 HP       | FR4        | NEMA 1            | 9.0 A               | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0050A1201   | 5 HP       | FR4        | NEMA 12           | 9.0 A               | 5.4 x 11.5 x 7.5 in.    | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0075A1004   | 7.5 HP     | FR4        | NEMA 1            | 12.0 A              | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0075A1202   | 7.5 HP     | FR4        | NEMA 12           | 12.0 A              | 5.4 x 11.5 x 7.5        | 137.2 x 292.1 x 190.5 | 11 lb   | 5.0 kg  |
| NXS0100A1003   | 10 HP      | FR5        | NEMA 1            | 16.0 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb | 8.1 kg  |
| NXS0100A1201   | 10 HP      | FR5        | NEMA 12           | 16.0 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb | 8.1 kg  |
| NXS0150A1002   | 15 HP      | FR5        | NEMA 1            | 23.0 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb | 8.1 kg  |
| NXS0150A1200   | 15 HP      | FR5        | NEMA 12           | 23.0 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb | 8.1 kg  |
| NXS0200A1002   | 20 HP      | FR5        | NEMA 1            | 31.0 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb | 8.1 kg  |
| NXS0200A1200   | 20 HP      | FR5        | NEMA 12           | 31.0 A              | 5.7 x 15.4 x 8.4        | 144.8 x 391.2 x 213.4 | 17.9 lb | 8.1 kg  |
| NXS0250A1001   | 25 HP      | FR6        | NEMA 1            | 38.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb | 18.5 kg |

# Variable Frequency Drives

| Product Number | Horsepower | Frame Type | Type of Enclosure | Amp Rating, lvt (A) | Dimensions, Approximate |                       | Weight   |          |
|----------------|------------|------------|-------------------|---------------------|-------------------------|-----------------------|----------|----------|
|                |            |            |                   |                     | (inch)                  | (mm)                  | (lb)     | (kg)     |
| NXS0250A1209   | 25 HP      | FR6        | NEMA 12           | 38.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg  |
| NXS0300A1001   | 30 HP      | FR6        | NEMA 1            | 46.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg  |
| NXS0300A1209   | 30 HP      | FR6        | NEMA 12           | 46.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg  |
| NXS0400A1000   | 40 HP      | FR6        | NEMA 1            | 61.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg  |
| NXS0400A1208   | 40 HP      | FR6        | NEMA 12           | 61.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg  |
| NXS0500A1009   | 50 HP      | FR7        | NEMA 1            | 72 A                | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg  |
| NXS0500A1207   | 50 HP      | FR7        | NEMA 12           | 72 A                | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg  |
| NXS0600A1008   | 60 HP      | FR7        | NEMA 1            | 87 A                | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg  |
| NXS0600A1206   | 60 HP      | FR7        | NEMA 12           | 87 A                | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg  |
| NXS0750A1006   | 75 HP      | FR7        | NEMA 1            | 105 A               | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg  |
| NXS0750A1204   | 75 HP      | FR7        | NEMA 12           | 105 A               | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg  |
| NXS1000A1002   | 100 HP     | FR8        | NEMA 1            | 140 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg  |
| NXS1000A1200   | 100 HP     | FR8        | NEMA 12           | 140 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg  |
| NXS1250A1009   | 125 HP     | FR8        | NEMA 1            | 170 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg  |
| NXS1250A1207   | 125 HP     | FR8        | NEMA 12           | 170 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg  |
| NXS1500A1007   | 150 HP     | FR8        | NEMA 1            | 205 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg  |
| NXS1500A1205   | 150 HP     | FR8        | NEMA 12           | 205 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg  |
| NXS2000A1000   | 200 HP     | FR9        | NEMA 1            | 261 A               | 18.9 x 45.3 x 14.3      | 480 x 1150 x 362      | 321.9 lb | 146.0 kg |

## 575 Volt

| Product Number | Horsepower | Frame Type | Type of Enclosure | Amp Rating, lvt (A) | Dimensions, Approximate |                       | Weight   |         |
|----------------|------------|------------|-------------------|---------------------|-------------------------|-----------------------|----------|---------|
|                |            |            |                   |                     | (inch)                  | (mm)                  | (lb)     | (kg)    |
| NXS0030C1004   | 3 HP       | FR6        | NEMA 1            | 4.5 A               | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0030C1202   | 3 HP       | FR6        | NEMA 12           | 4.5 A               | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0040C1002   | 4 HP       | FR6        | NEMA 1            | 5.5 A               | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0040C1200   | 4 HP       | FR6        | NEMA 12           | 5.5 A               | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0050C1009   | 5 HP       | FR6        | NEMA 1            | 7.5 A               | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0050C1207   | 5 HP       | FR6        | NEMA 12           | 7.5 A               | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0075C1000   | 7.5 HP     | FR6        | NEMA 1            | 10.0 A              | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0075C1208   | 7.5 HP     | FR6        | NEMA 12           | 10.0 A              | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0100C1009   | 10 HP      | FR6        | NEMA 1            | 13.5 A              | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0100C1207   | 10 HP      | FR6        | NEMA 12           | 13.5 A              | 7.7 x 20.4 x 9.3        | 195 x 519 x 237       | 40.8 lb  | 18.5 kg |
| NXS0150C1008   | 15 HP      | FR6        | NEMA 1            | 18.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0150C1206   | 15 HP      | FR6        | NEMA 12           | 18.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0200C1008   | 20 HP      | FR6        | NEMA 1            | 22.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0200C1206   | 20 HP      | FR6        | NEMA 12           | 22.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0250C1007   | 25 HP      | FR6        | NEMA 1            | 27.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0250C1205   | 25 HP      | FR6        | NEMA 12           | 27.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0300C1007   | 30 HP      | FR6        | NEMA 1            | 34.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0300C1205   | 30 HP      | FR6        | NEMA 12           | 34.0 A              | 7.7 x 20.4 x 9.3        | 195.6 x 518.2 x 236.2 | 40.8 lb  | 18.5 kg |
| NXS0400C1006   | 40 HP      | FR7        | NEMA 1            | 41.0 A              | 16 x 62 x 12            | 406 x 1575 x 330      | 77.2 lb  | 35.0 kg |
| NXS0400C1204   | 40 HP      | FR7        | NEMA 12           | 41.0 A              | 9.3 x 23.3 x 10.1       | 236.2 x 519.9 x 256.5 | 77.2 lb  | 35.0 kg |
| NXS0500C1005   | 50 HP      | FR7        | NEMA 1            | 52 A                | 16 x 62 x 12            | 406 x 1575 x 330      | 77.2 lb  | 35.0 kg |
| NXS0500C1203   | 50 HP      | FR7        | NEMA 12           | 52 A                | 16 x 62 x 12            | 406 x 1575 x 330      | 77.2 lb  | 35.0 kg |
| NXS0600C1004   | 60 HP      | FR8        | NEMA 1            | 62 A                | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |
| NXS0600C1202   | 60 HP      | FR8        | NEMA 12           | 62 A                | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |
| NXS0750C1002   | 75 HP      | FR8        | NEMA 1            | 80 A                | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |
| NXS0750C1200   | 75 HP      | FR8        | NEMA 12           | 80 A                | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |
| NXS1000C1008   | 100 HP     | FR8        | NEMA 1            | 100 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg |

# Variable Frequency Drives

| Product Number | Horsepower | Frame Type | Type of Enclosure | Amp Rating, lvt (A) | Dimensions, Approximate |                       | Weight   |          |
|----------------|------------|------------|-------------------|---------------------|-------------------------|-----------------------|----------|----------|
|                |            |            |                   |                     | (inch)                  | (mm)                  | (lb)     | (kg)     |
| NXS1000C1206   | 100 HP     | FR8        | NEMA 12           | 100 A               | 11.2 x 28.4 x 12.3      | 284.5 x 721.4 x 312.4 | 127.9 lb | 58.0 kg  |
| NXS1250C1005   | 125 HP     | FR9        | NEMA 1            | 125 A               | 18.9 x 45.3 x 14.3      | 480 x 1150 x 362      | 321.9 lb | 146.0 kg |
| NXS1250C1203   | 125 HP     | FR9        | NEMA 12           | 125 A               | 18.9 x 45.3 x 14.3      | 480 x 1150 x 362      | 321.9 lb | 146.0 kg |
| NXS1500C1003   | 150 HP     | FR9        | NEMA 1            | 144 A               | 18.9 x 45.3 x 14.3      | 480 x 1150 x 362      | 321.9 lb | 146.0 kg |
| NXS1500C1201   | 150 HP     | FR9        | NEMA 12           | 144 A               | 18.9 x 45.3 x 14.3      | 480 x 1150 x 362      | 321.9 lb | 146.0 kg |
| NXS2000C1006   | 200 HP     | FR9        | NEMA 1            | 208 A               | 18.9 x 45.3 x 14.3      | 480 x 1150 x 362      | 321.9 lb | 146.0 kg |
| NXS2000C1204   | 200 HP     | FR9        | NEMA 12           | 208 A               | 18.9 x 45.3 x 14.3      | 480 x 1150 x 362      | 321.9 lb | 146.0 kg |

## Variable Frequency Drive Accessories and Replacement Parts

### Accessories

| Product Number | Description                                    | Used With     |
|----------------|------------------------------------------------|---------------|
| 32004193-002   | CX Series Keypad Display, Alphanumeric Display | CX Series VFD |
| 32006627-001   | RFI filter for NXL units up to 3HP, 460v       | NXL           |
| 32006628-001   | Panel mount kit, NEMA 12, 6ft                  | NXS           |
| 32006629-001   | Blank display                                  | NXS           |
| 32006629-002   | Alphanumeric Display                           | NXS           |
| 32006629-003   | 7 segment display for NXL                      | NXL           |
| 32006629-004   | Variable Frequency Drive RS232 Adapter         | —             |
| 32006630-001   | Lonbus Card                                    | NXS/NXL       |
| 32006630-002   | Modbus Card                                    | NXS/NXL       |
| 32006630-003   | 2 RO (NO/NC)                                   | NXS/NXL       |
| 32006630-004   | 6DI/DO Program able                            | NXS/NXL       |
| 32006630-005   | 6DI, 1DO, 2AI, 1AO                             | NXS/NXL       |
| 32006630-006   | 1RO (NO/NC), 1RO (NO)                          | NXS/NXL       |
| 32006630-007   | 3RO (NO)                                       | NXS/NXL       |
| 32006630-008   | 1AI (mA), 2AO (mA),                            | NXS/NXL       |
| 32006630-013   | BACnet card                                    | NXS/NXL       |
| 32006662-001   | NXL demo                                       | NXL           |
| 32006662-002   | NXS demo                                       | NXS           |

### Replacement Parts

| Product Number | Description              | Voltage | Horsepower   | Used With |
|----------------|--------------------------|---------|--------------|-----------|
| 32006803-001   | Control Module NXS       | —       | —            | NXS       |
| 32006803-002   | Fan assembly up to 7.5HP | —       | up to 7.5 HP | NXS       |
| 32006803-003   | Fan assembly 10 - 20 HP  | —       | 10 - 20 HP   | NXS       |
| 32006803-004   | Fan assembly 25 - 40 HP  | —       | 25 - 40 HP   | NXS       |
| 32006803-005   | Fan assembly 50 - 75HP   | —       | 50 - 75 HP   | NXS       |
| 32006803-006   | Fan assembly 100 - 150HP | —       | 100 - 150 HP | NXS       |
| 32006803-008   | Power Module 2 HP        | 460 Vac | 2 HP         | NXS       |

## Optimize Capability, Minimize Waste

You already know the energy savings variable frequency drives (VFDs) deliver. Most VFDs are loaded with features that you don't need or do not fit your application. With Honeywell SmartDrive Compact VFDs, you select the capabilities you need. Our SmartDrive Compact line lets you customize the drive features to the application, eliminating waste.

## Maximize Space

The SmartDrive Compact VFD lets you make the most of the available space in your application. It's a true micro drive & is among the smallest, most streamlined VFDs on the market, which saves space in your equipment cabinet.

Honeywell's SmartDrive Compact is a true micro drive with the features you care about:

- Three interface options: Keyboard, PC, MCA
- EMC optional
- Open Chassis or NEMA 1 Enclosure
- Full or Limited input options

The Honeywell Compact drive has all of the power and programming features you need without the size.

- DIN rail mounting
- PID Controller
- MODbus Standard



| Frame Size | Frame Height | Frame Width | Frame Depth |
|------------|--------------|-------------|-------------|
| MI1        | 6.2"         | 2.6"        | 3.9"        |
| MI2        | 7.7"         | 3.5"        | 4.0"        |
| MI3        | 10.2"        | 3.9"        | 4.3"        |

## Programming At Your Fingertips

The SmartDrive architecture is created with ease of use and speed in mind. With the touch wheel as the central feature of the API (application interface) you can configure the drive to your specific application.

## Standard API

Honeywell offers a set of APIs as standard, which are available from the shelf.

- API — Full
- API — Limited

### API LIMITED

|    | Terminal | Signal, Default Settings |
|----|----------|--------------------------|
| 1  | +10Vref  | Reference voltage        |
| 2  | AI1      |                          |
| 3  | GND      | I/O ground               |
| 6  | +24Volt  | 24V auxiliary voltage    |
| 7  | GND      | I/O ground               |
| 8  | DIN1     | Start forward            |
| 9  | DIN2     | Start reverse            |
| 10 | DIN3     | Fault reset              |
| A  | A        | Serial bus (Modbus RTU)  |
| B  | B        | Serial bus               |
| 21 | RO11     | Relay output, FAULT, NC  |
| 22 | RO12     | Relay output, FAULT, NC  |

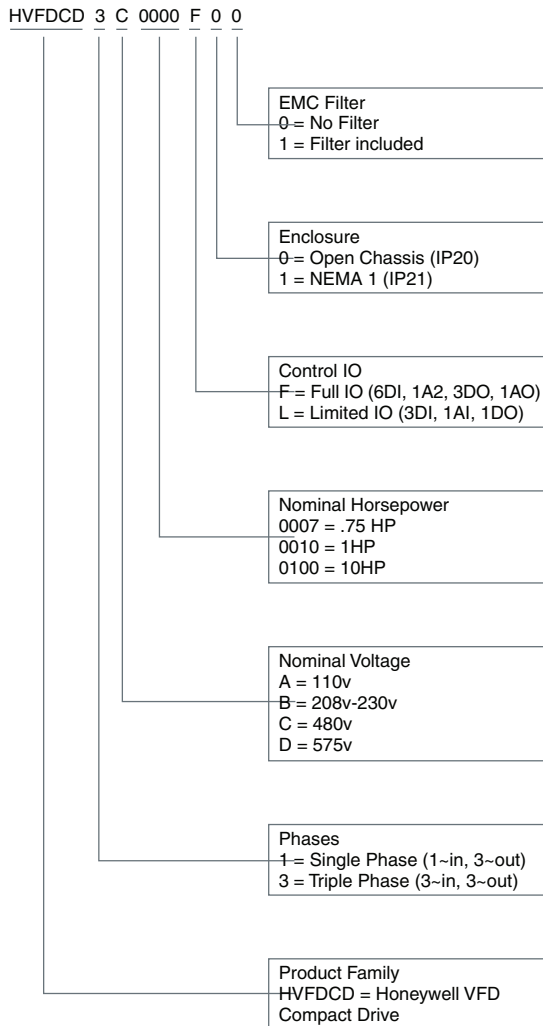
### API FULL

|    | Terminal | Signal, Default Setting            |
|----|----------|------------------------------------|
| 1  | +10Vref  | Reference voltage                  |
| 2  | AI1      | Analog input 0/4-20 mA             |
| 3  | GND      | I/O ground                         |
| 6  | +24Volt  | 24 V auxiliary voltage             |
| 7  | GND      | I/O ground                         |
| 8  | DIN1     | Start forward                      |
| 9  | DIN2     | Start reverse                      |
| 10 | DIN3     | Fault reset                        |
| A  | A        | Serial bus (Modbus RTU)            |
| B  | B        | Serial bus                         |
| 21 | RO11     | Relay output 1, FAULT, Change over |
| 22 | RO12     | Relay output 1, FAULT, NC          |
| 4  | A12      | Analog input 0-10V                 |
| 5  | GND      | I/O ground                         |
| 13 | GND      | I/O ground                         |
| 14 | DIN4     | Preset speed 1                     |
| 15 | DIN5     | Preset speed 2                     |
| 16 | DIN6     | Preset speed 3                     |
| 18 | AO       | Analog output, output frequency    |
| 20 | DO       | Ready                              |
| 25 | RO21     | Relay output 2, RUN, NO            |
| 26 | RO22     | Relay output 2, RUN, NO            |
| 23 | RO13     | Relay output 1, FAULT, NO          |

# SmartDrive Compact VFD

## Easy To Select Model Numbers

Honeywell SmartDrive model numbers follow the same conventions. Use the figure below to select the appropriate drive for your application.



| Frame Size: MI1      Dimensions: 6.2" H x 2.6" W x 3.9" D  |                        |            |                 |                 |
|------------------------------------------------------------|------------------------|------------|-----------------|-----------------|
| Nominal Voltage                                            | Nom. HP (Nom. Current) | EMC Filter | Control I/O     | Part Number     |
| 460<br>3~in 3~out                                          | 0.5 HP<br>(1.3 A)      | No         | Full            | HVFDCD3C0005F00 |
|                                                            |                        |            | Limited         | HVFDCD3C0005L00 |
|                                                            |                        | EMC        | Full            | HVFDCD3C0005F01 |
|                                                            |                        |            | Limited         | HVFDCD3C0005L01 |
|                                                            | 0.75 HP<br>(1.9 A)     | No         | Full            | HVFDCD3C0007F00 |
|                                                            |                        |            | Limited         | HVFDCD3C0007L00 |
|                                                            |                        | EMC        | Full            | HVFDCD3C0007F01 |
|                                                            |                        |            | Limited         | HVFDCD3C0007L01 |
|                                                            | 1 HP<br>(2.4 A)        | No         | Full            | HVFDCD3C0010F00 |
|                                                            |                        |            | Limited         | HVFDCD3C0010L00 |
|                                                            |                        | EMC        | Full            | HVFDCD3C0010F01 |
|                                                            |                        |            | Limited         | HVFDCD3C0010L01 |
| 1.5 HP<br>(3.3 A)                                          | No                     | Full       | HVFDCD3C0015F00 |                 |
|                                                            |                        | Limited    | HVFDCD3C0015L00 |                 |
|                                                            | EMC                    | Full       | HVFDCD3C0015F01 |                 |
|                                                            |                        | Limited    | HVFDCD3C0015L01 |                 |
| 208/230<br>1~in 3~out                                      | 0.25 HP<br>(1.7 A)     | No         | Full            | HVFDCD1B0003F00 |
|                                                            |                        |            | Limited         | HVFDCD1B0003L00 |
|                                                            |                        | EMC        | Full            | HVFDCD1B0003F01 |
|                                                            |                        |            | Limited         | HVFDCD1B0003L01 |
|                                                            | 0.5 HP<br>(2.4 A)      | No         | Full            | HVFDCD1B0005F00 |
|                                                            |                        |            | Limited         | HVFDCD1B0005L00 |
|                                                            |                        | EMC        | Full            | HVFDCD1B0005F01 |
|                                                            |                        |            | Limited         | HVFDCD1B0005L01 |
|                                                            | 0.75 HP<br>(2.8 A)     | No         | Full            | HVFDCD1B0007F00 |
|                                                            |                        |            | Limited         | HVFDCD1B0007L00 |
|                                                            |                        | EMC        | Full            | HVFDCD1B0007F01 |
|                                                            |                        |            | Limited         | HVFDCD1B0007L01 |
|                                                            | 1 HP<br>(3.7A)         | No         | Full            | HVFDCD1B0010F00 |
|                                                            |                        |            | Limited         | HVFDCD1B0010L00 |
|                                                            |                        | EMC        | Full            | HVFDCD1B0010F01 |
|                                                            |                        |            | Limited         | HVFDCD1B0010L01 |
| Frame Size: MI2      Dimensions: 7.7" H x 3.5" W x 4.0" D  |                        |            |                 |                 |
| Nominal Voltage                                            | Nom. HP (Nom. Current) | EMC Filter | Control I/O     | Part Number     |
| 460<br>3~in 3~out                                          | 2 HP<br>(4.3 A)        | No         | Full            | HVFDCD3C0020F00 |
|                                                            |                        |            | Limited         | HVFDCD3C0020L00 |
|                                                            |                        | EMC        | Full            | HVFDCD3C0020F01 |
|                                                            |                        |            | Limited         | HVFDCD3C0020L01 |
|                                                            | 3 HP<br>(5.6 A)        | No         | Full            | HVFDCD3C0030F00 |
|                                                            |                        |            | Limited         | HVFDCD3C0030L00 |
| EMC                                                        |                        | Full       | HVFDCD3C0030F01 |                 |
|                                                            |                        | Limited    | HVFDCD3C0030L01 |                 |
| 208/230<br>1~in 3~out                                      | 1.5 HP<br>(4.8 A)      | No         | Full            | HVFDCD1B0015F00 |
|                                                            |                        |            | Limited         | HVFDCD1B0015L00 |
|                                                            |                        | EMC        | Full            | HVFDCD1B0015F01 |
|                                                            |                        |            | Limited         | HVFDCD1B0015L01 |
|                                                            | 2 HP<br>(7 A)          | No         | Full            | HVFDCD1B0020F00 |
|                                                            |                        |            | Limited         | HVFDCD1B0020L00 |
|                                                            |                        | EMC        | Full            | HVFDCD1B0020F01 |
|                                                            |                        |            | Limited         | HVFDCD1B0020L01 |
| Frame Size: MI3      Dimensions: 10.2" H x 3.9" W x 4.3" D |                        |            |                 |                 |
| Nominal Voltage                                            | Nom. HP (Nom. Current) | EMC Filter | Control I/O     | Part Number     |
| 460<br>3~in 3~out                                          | 4 HP<br>(7.6 A)        | No         | Full            | HVFDCD3C0040F00 |
|                                                            |                        |            | Limited         | HVFDCD3C0040L00 |
|                                                            |                        | EMC        | Full            | HVFDCD3C0040F01 |
|                                                            |                        |            | Limited         | HVFDCD3C0040L01 |
|                                                            | 5 HP<br>(9 A)          | No         | Full            | HVFDCD3C0050F00 |
|                                                            |                        |            | Limited         | HVFDCD3C0050L00 |
|                                                            |                        | EMC        | Full            | HVFDCD3C0050F01 |
|                                                            |                        |            | Limited         | HVFDCD3C0050L01 |
|                                                            | 7.5 HP<br>(12 A)       | No         | Full            | HVFDCD3C0075F00 |
|                                                            |                        |            | Limited         | HVFDCD3C0075L00 |
|                                                            |                        | EMC        | Full            | HVFDCD3C0075F01 |
|                                                            |                        |            | Limited         | HVFDCD3C0075L01 |
| 208/230<br>1~in 3~out                                      | 3 HP<br>(11 A)         | No         | Full            | HVFDCD1B0030F00 |
|                                                            |                        | Limited    | HVFDCD1B0030L00 |                 |
|                                                            |                        | EMC        | Full            | HVFDCD1B0030F01 |
|                                                            |                        |            | Limited         | HVFDCD1B0030L01 |

# Drives and Cool Blue Bypass

## NAMING STRUCTURE

|       |                                          |  |  |  |  |  |  |  |  |  |
|-------|------------------------------------------|--|--|--|--|--|--|--|--|--|
| NXB   | Bypass or Disconnect                     |  |  |  |  |  |  |  |  |  |
| J     | 480 Volts                                |  |  |  |  |  |  |  |  |  |
| K     | 208 Volts                                |  |  |  |  |  |  |  |  |  |
| S     | 230 Volts                                |  |  |  |  |  |  |  |  |  |
| L     | 600 Volts                                |  |  |  |  |  |  |  |  |  |
| 1000  | 100 HP<br>(0100 = 10HP),<br>(0050 = 5HP) |  |  |  |  |  |  |  |  |  |
| C     | Cool Blue Bypass                         |  |  |  |  |  |  |  |  |  |
| D     | Cool Blue Disconnect                     |  |  |  |  |  |  |  |  |  |
| S     | NXS Drive                                |  |  |  |  |  |  |  |  |  |
| L     | NXL Drive                                |  |  |  |  |  |  |  |  |  |
| 1     | NEMA 1                                   |  |  |  |  |  |  |  |  |  |
| 2     | NEMA 12                                  |  |  |  |  |  |  |  |  |  |
| 3     | NEMA 3R                                  |  |  |  |  |  |  |  |  |  |
| 0     | Standard                                 |  |  |  |  |  |  |  |  |  |
| 1     | Auto-bypass Option                       |  |  |  |  |  |  |  |  |  |
| 3     | Auto-Bypass and Hand Off Auto Option     |  |  |  |  |  |  |  |  |  |
| 0     | Disconnect or Drive Alone                |  |  |  |  |  |  |  |  |  |
| 2     | Two Contactor                            |  |  |  |  |  |  |  |  |  |
| 3     | Three Contactor                          |  |  |  |  |  |  |  |  |  |
| 00000 | 2 Contactor Bypass or Drive Alone        |  |  |  |  |  |  |  |  |  |
| F0000 | Fused Disconnect                         |  |  |  |  |  |  |  |  |  |
| F1110 | 3 Contactor Fused Bypass                 |  |  |  |  |  |  |  |  |  |

|     |   |      |   |   |   |   |   |       |                    |
|-----|---|------|---|---|---|---|---|-------|--------------------|
| NXB | J | 1000 | C | S | 1 | 0 | 3 | F1110 | NXBJ1000CS103F1110 |
|-----|---|------|---|---|---|---|---|-------|--------------------|

# Drives and Cool Blue Bypass

## Select the Best Honeywell Cool Blue Bypasses for Your Application

For system critical applications, you must be able to select a bypass that meets the requirements of the specification. The Cool Blue bypass is easy to specify, select, install and commission. The Cool Blue is the perfect complement to the advanced capabilities of the NXS/NXL drives – a combination that is both simple and smart.

### Cool Blue Bypass Configurations

Our five Cool Blue configurations make it easy for you to select the right bypass to complete your drive package. All bundles are available in NEMA 1, NEMA 12 and ventilated NEMA 3R.

#### Cool Blue Disconnect

Adds a fused disconnect to the NXL or NXS VFD.

#### Cool Blue 2-Contactor

Provides an economical means of bypassing the VFD.

- No Main Disconnect
- Freeze/Fire/Smoke Interlock

#### Cool Blue 3-Contactor

Commission, service or replace the VFD without affecting the operation of the motor. Provide additional bypass control capabilities with Auto-bypass and HOA options.

- Fused Disconnect
- Freeze/Fire/Smoke Interlock
- VFD can be isolated from power with motor running in BYPASS mode
- TEST position powers the VFD without sending power to the motor

### Cool Blue 3-Contactor Options Auto-Bypass

- Available with NXS and NXL
- Any VFD fault will automatically send the bypass to BYPASS mode
- A contact closure sends the bypass to BYPASS mode
- Dry contacts indicate when the bypass is in BYPASS mode, alerting the building management system Auto-Bypass and HOA (Hand-Off-Auto)
- Available only with the NXS
- Auto-bypass functions above
- Local/Remote switch changes speed reference from standard inputs to potentiometer input
- Potentiometer on front of bypass panel allows “Hand” control of VFD

### Part Of The Honeywell VFD Family

Cool Blue Bypass Assemblies are part of the complete Honeywell family of variable frequency drives and bypass assemblies that let you meet all of your VFD needs from just one supplier. Along with the world-renowned Honeywell reliability, all Honeywell VFDs share common features that you'll appreciate on every project:

- Common user interface
- Built-in AC choke (input line reactor) protects the VFD and downstream components from voltage spikes and sags
- Integrated input and output RFI filters reduce electromagnetic interference and harmful harmonics
- Broad communication capabilities (BACnet®, LonWorks®, Modbus®, N2 and other protocols)
- Built-in applications make any setup, from accepting a basic speed signal up to complex PID control, quick and easy
- Warranty — 3 years from installation when installed by authorized technician

# Drives and Cool Blue Bypass

## EASY SELECTION FOR ANY APPLICATION

| NEMA 1 NX_ with Cool Blue Bypass, 2-Contactor and 3-Contactor |                               |            |           |                 |      |     |             |
|---------------------------------------------------------------|-------------------------------|------------|-----------|-----------------|------|-----|-------------|
|                                                               | Frame Sizes by HP and Voltage |            |           | Dimensions (in) |      |     | Weight (lb) |
|                                                               | 208/230 VAC                   | 460VAC     | 575VAC    | H               | D    | W   |             |
| Frame 4                                                       | 1-4 HP                        | 1-7.5 HP   |           | 40              | 9.5  | 9.5 | 43          |
| Frame 5                                                       | 5-10 HP                       | 10-20 HP   |           | 46              | 10.5 | 11  | 62          |
| Frame 6                                                       | 15-20 HP                      | 25-40 HP   | 3-30 HP   | 53              | 12   | 14  | 99          |
| Frame 7                                                       | 25-40 HP                      | 50-75 HP   | 40-50 HP  | 62              | 13   | 16  | 154         |
| Frame 8                                                       | 50-75 HP                      | 100-150 HP | 60-100 HP | 54              | 16   | 36  | 360         |

| NEMA 1 NX_ with Cool Blue Disconnect, No Bypass |                               |            |           |                 |       |       |
|-------------------------------------------------|-------------------------------|------------|-----------|-----------------|-------|-------|
|                                                 | Frame Sizes by HP and Voltage |            |           | Dimensions (in) |       |       |
|                                                 | 208/230 VAC                   | 460VAC     | 575VAC    | H               | W     | D     |
| Frame 4                                         | 1-4 HP                        | 1-7.5 HP   |           | 21              | 9.375 | 9     |
| Frame 5                                         | 5-10 HP                       | 10-20 HP   |           | 28              | 11    | 10    |
| Frame 6                                         | 15-20 HP                      | 25-40 HP   | 3-30 HP   | 38              | 14    | 11    |
| Frame 7                                         | 25-40 HP                      | 50-75 HP   | 40-50 HP  | 45              | 16    | 11.75 |
| Frame 8                                         | 50-75 HP                      | 100-150 HP | 60-100 HP | 57              | 18    | 14    |

| NEMA 3R NX_ Cool Blue Bypass or NEMA 3R Disconnect* |                               |            |           |                 |    |    |             |
|-----------------------------------------------------|-------------------------------|------------|-----------|-----------------|----|----|-------------|
|                                                     | Frame Sizes by HP and Voltage |            |           | Dimensions (in) |    |    |             |
|                                                     | 208/230 VAC                   | 460VAC     | 575VAC    | H               | W* | D  | Weight (lb) |
| Frame 4                                             | 1-4 HP                        | 1-7.5 HP   |           | 24              | 20 | 10 | 54          |
| Frame 5                                             | 5-10 HP                       | 10-20 HP   |           | 30              | 24 | 10 | 78          |
| Frame 6                                             | 15-20 HP                      | 25-40 HP   | 3-30 HP   | 36              | 30 | 12 | 124         |
| Frame 7                                             | 25-40 HP                      | 50-75 HP   | 40-50 HP  | 48              | 36 | 12 | 193         |
| Frame 8                                             | 50-75 HP                      | 100-150 HP | 60-100 HP | 60              | 36 | 14 | 440         |

\* Add 5" to "W" Dimension for each Fan Shroud

| NEMA 12 NX_ with Cool Blue Bypass or Disconnect* |                               |            |                 |    |    |             |
|--------------------------------------------------|-------------------------------|------------|-----------------|----|----|-------------|
|                                                  | Frame Sizes by HP and Voltage |            | Dimensions (in) |    |    | Weight (lb) |
|                                                  | 208/230 VAC                   | 460VAC     | H               | D  | W  |             |
| Frame 4                                          | 1-4 HP                        | 1-7.5 HP   | 36              | 10 | 16 | 53          |
| Frame 5                                          | 5-7.5 HP                      | 10-15 HP   | 36              | 10 | 16 | 64          |
| Frame 5                                          | 10 HP                         | 20 HP      | 44              | 10 | 16 | 70          |
| Frame 6                                          | 15 HP                         | 25-30 HP   | 50              | 10 | 16 | 120         |
| Frame 6                                          | 20 HP                         | 40 HP      | 54              | 10 | 20 | 136         |
| Frame 7                                          | 25-30 HP                      | 50-60 HP   | 58              | 10 | 20 | 150         |
| Frame 7                                          | 40 HP                         | 75 HP      | 64              | 12 | 24 | 200         |
| Frame 8                                          | 50-75 HP                      | 100-150 HP | 48              | 14 | 40 | 350         |

\*Note: For NEMA 3R and NEMA 12, dimensions are the same for bypass or disconnect.

# Drives and Cool Blue Bypass

## NXL Variable Frequency Drives with Cool Blue Bypass



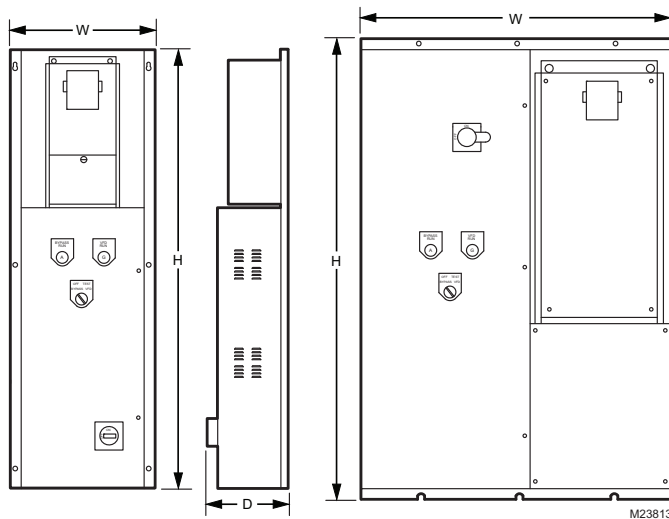
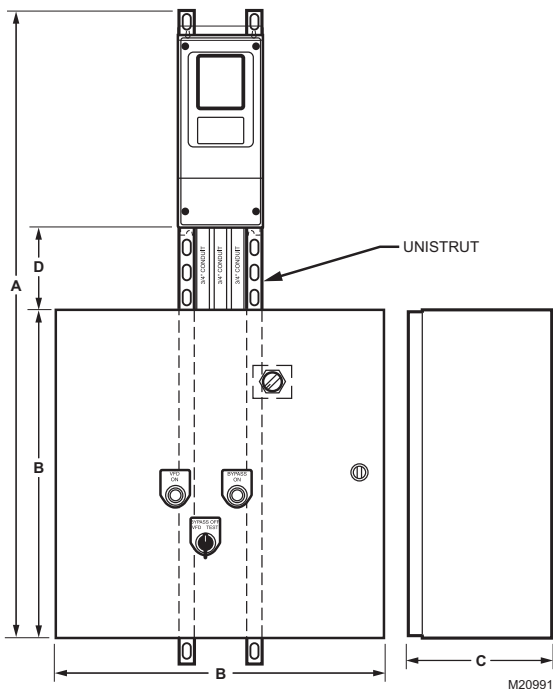
Variable Frequency Drives (VFD) accept a control input and then output tailored PWM control signal to operate (motors, fans, pumps, etc.) with maximum efficiency. The VFD can be field programmed without any extra devices or computer connections.

- Multi-Control applications built in.
- Easy commissioning through software or control panel.
- Eleven protective functions (see Form 63-2599, Users Manual, Technical Data sections).
- NEMA 1 and NEMA 12 enclosures available.
- Insulated gate bi-polar transistor (IGBT) technology.
- Modbus Standard

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| Drive Family             | NXL                                                                                                   |
| 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                                                                              |
| Continuos Output Current | overload 1.5 x High overload current (1min/10min)<br>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 Current         | 2 x high overload current, 2 seconds every 20 seconds                                                         |
| Starting Torque          | 200% High; 150% Low                                                                                           |
| Frequency                | 0 Hz to 320 Hz                                                                                                |
| Operating Temperature    | High Overload 14 to 122;<br>Low Overload 14 to 104;<br>(High Overload -10 to 50);<br>(Low Overload -10 to 40) |
| Type of RFI Filter       | Industrial filter                                                                                             |
| Layout                   | Vertical                                                                                                      |

### Dimensions Diagram



# Drives and Cool Blue Bypass

## 460 Volt - NEMA 1 Enclosure

Bypass ..... Cool Blue

| Product Number     | Horse-power | Frame Type | Amp Rating, lvt (A) | Cont-actor      | Control Trans-former | Dis-connect Type | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|-------------|------------|---------------------|-----------------|----------------------|------------------|------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |             |            |                     |                 |                      |                  |                        |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBJ0015CL10200000 | 1.5 HP      | FR4        | 3.3 A               | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBJ0015CL103F1110 | 1.5 HP      | FR4        | 3.3 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0020CL10200000 | 2 HP        | FR4        | 4.3 A               | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0020CL103F1110 | 2 HP        | FR4        | 4.3 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0030CL10200000 | 3 HP        | FR4        | 5.6 A               | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0030CL103F1110 | 3 HP        | FR4        | 5.6 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0040CL10200000 | 4 HP        | FR4        | 7.6 A               | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0040CL103F1110 | 4 HP        | FR4        | 7.6 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0050CL10200000 | 5 HP        | FR4        | 0.37 A              | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0050CL103F1110 | 5 HP        | FR4        | 0.37 A              | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0075CL10200000 | 7.5 HP      | FR4        | 0                   | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0075CL103F1110 | 7.5 HP      | FR4        | 0                   | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0100CL10200000 | 10 HP       | FR5        | 16 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           | 11 x 46 x 10.5          | 275 x 1150 x 262.5   | 62 lb  | 28.1 kg |
| NXBJ0100CL103F1110 | 10 HP       | FR5        | 16 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0150CL10200000 | 15 HP       | FR5        | 23 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0150CL103F1110 | 15 HP       | FR5        | 23 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0200CL10200000 | 20 HP       | FR5        | 31 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0200CL103F1110 | 20 HP       | FR5        | 31 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0250CL10200000 | 25 HP       | FR6        | 38 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           | 14 x 53 x 12            | 350 x 1325 x 300     | 99 lb  | 44.9 kg |
| NXBJ0250CL103F1110 | 25 HP       | FR6        | 38 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0300CL10200000 | 30 HP       | FR6        | 46 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0300CL103F1110 | 30 HP       | FR6        | 46 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0400CL10200000 | 40 HP       | FR6        | 61 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0400CL103F1110 | 40 HP       | FR6        | 61 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |

## 460 Volt - NEMA 1 Enclosure

Bypass ..... Disconnect Only

| Product Number     | Horse-power | Frame Type | Amp Rating, lvt (A) | Control Trans-former | Dis-connect Type | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|-------------|------------|---------------------|----------------------|------------------|------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |             |            |                     |                      |                  |                        |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBJ0015DL100F0000 | 1.5 HP      | FR4        | 3.3 A               | No                   | Fused Disconnect | No                     | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBJ0030DL100F0000 | 3 HP        | FR4        | 5.6 A               | No                   | Fused Disconnect | No                     | No                | No           |                         |                      |        |         |
| NXBJ0075DL100F0000 | 7.5 HP      | FR4        | 0                   | No                   | Fused Disconnect | No                     | No                | No           |                         |                      |        |         |
| NXBJ0100DL100F0000 | 10 HP       | FR4        | 16 A                | No                   | Fused Disconnect | No                     | No                | No           | 11 x 46 x 10.5          | 275 x 1150 x 262.5   | 62 lb  | 28.1 kg |
| NXBJ0150DL100F0000 | 15 HP       | FR4        | 23 A                | No                   | Fused Disconnect | No                     | No                | No           |                         |                      |        |         |
| NXBJ0200DL100F0000 | 20 HP       | FR4        | 31 A                | No                   | Fused Disconnect | No                     | No                | No           |                         |                      |        |         |
| NXBJ0250DL100F0000 | 25 HP       | FR4        | 38 A                | No                   | Fused Disconnect | No                     | No                | No           | 14 x 53 x 12            | 350 x 1325 x 300     | 99 lb  | 44.9 kg |

# Drives and Cool Blue Bypass

## 460 Volt - NEMA 12 Enclosure

Bypass .....Cool Blue

| Product Number     | Horse-power | Frame Type | Amp Rating, lvt (A) | Cont-actor      | Control Trans-former | Dis-connect Type | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|-------------|------------|---------------------|-----------------|----------------------|------------------|------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |             |            |                     |                 |                      |                  |                        |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBJ0015CL20200000 | 1.5 HP      | FR4        | 3.3 A               | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBJ0015CL203F1110 | 1.5 HP      | FR4        | 3.3 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0020CL20200000 | 2 HP        | FR4        | 4.3 A               | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0020CL203F1110 | 2 HP        | FR4        | 4.3 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0030CL20200000 | 3 HP        | FR4        | 5.6 A               | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0030CL203F1110 | 3 HP        | FR4        | 5.6 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0040CL20200000 | 4 HP        | FR4        | 7.6 A               | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0040CL203F1110 | 4 HP        | FR4        | 7.6 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0050CL20200000 | 5 HP        | FR4        | 0.37 A              | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0050CL203F1110 | 5 HP        | FR4        | 0.37 A              | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0075CL20200000 | 7.5 HP      | FR4        | 0                   | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           | 11 x 46 x 10.5          | 275 x 1150 x 262.5   | 62 lb  | 28.1 kg |
| NXBJ0075CL203F1110 | 7.5 HP      | FR4        | 0                   | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0100CL20200000 | 10 HP       | FR5        | 16 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0100CL203F1110 | 10 HP       | FR5        | 16 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0150CL20200000 | 15 HP       | FR5        | 23 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0150CL203F1110 | 15 HP       | FR5        | 23 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0200CL20200000 | 20 HP       | FR5        | 31 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           | 14 x 53 x 12            | 350 x 1325 x 300     | 99 lb  | 44.9 kg |
| NXBJ0200CL203F1110 | 20 HP       | FR5        | 31 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0250CL20200000 | 25 HP       | FR6        | 38 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0250CL203F1110 | 25 HP       | FR6        | 38 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0300CL20200000 | 30 HP       | FR6        | 46 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0300CL203F1110 | 30 HP       | FR6        | 46 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0400CL20200000 | 40 HP       | FR6        | 61 A                | Two Contactor   | No                   | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0400CL203F1110 | 40 HP       | FR6        | 61 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |

## NXS Variable Frequency Drives with Cool Blue Bypass



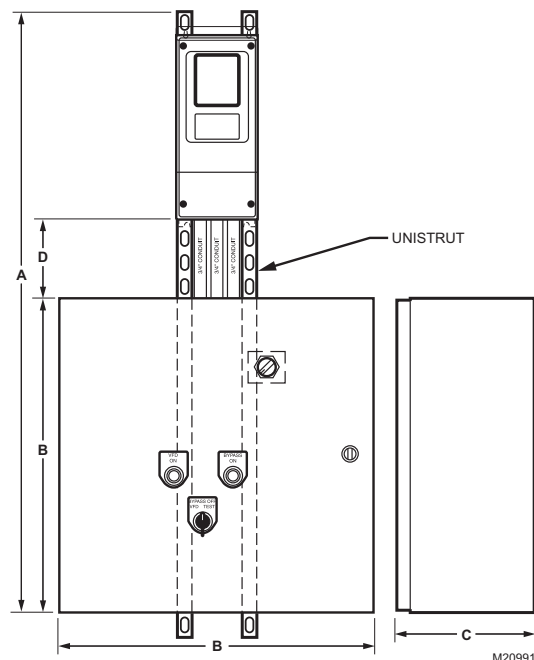
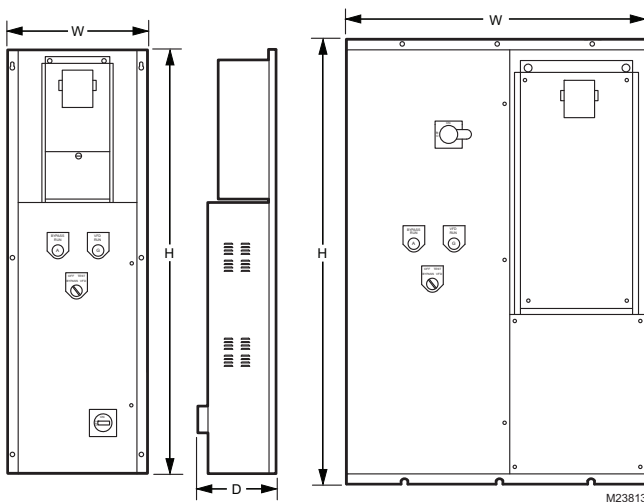
Variable Frequency Drives (VFD) accept a control input and then output tailored PWM control signal to operate (motors, fans, pumps, etc.) with maximum efficiency. The VFD can be field-programmed without any extra devices or computer connections.

- 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).
- Insulated gate bi-polar transistor (IGBT) technology.
- Modbus, BacNet, Device Net, Profibus, LoxBus, 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);<br>overload 1.1 x Low overload current (1min/10min) |

|                                |                                                                                                               |
|--------------------------------|---------------------------------------------------------------------------------------------------------------|
| Relay Output .....             | 24 Vdc/8A; 125 Vdc/0.4A;<br>250 Vac/8A                                                                        |
| Reference Output Voltage ..... | +10V, +3%, max 10mA                                                                                           |
| Auxiliary Voltage .....        | 24V, +/- 15%, max 250 mA                                                                                      |
| Starting Current .....         | 2 x high overload current, 2 seconds every 20 seconds                                                         |
| Starting Torque .....          | 200% High; 150% Low                                                                                           |
| Frequency .....                | 0 Hz to 320 Hz                                                                                                |
| Operating Temperature .....    | High Overload 14 to 122;<br>Low Overload 14 to 104;<br>(High Overload -10 to 50);<br>(Low Overload -10 to 40) |
| Type of RFI Filter .....       | Industrial filter                                                                                             |

### Dimensions Diagram



# Drives and Cool Blue Bypass

208 Volt  
Bypass .....Cool Blue

| Product Number     | Horse-power | Frame Type | Layout   | Type of Enclosure | Amp Rating, lvt (A) | Contactor       | Control Transformer | Disconnect Type  | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|-------------|------------|----------|-------------------|---------------------|-----------------|---------------------|------------------|------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |             |            |          |                   |                     |                 |                     |                  |                        |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBK0015CS10200000 | 1.5 HP      | FR4        | Vertical | NEMA 1            | 6.6 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBK0015CS103F1110 | 1.5 HP      | FR4        | Vertical | NEMA 1            | 6.6 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0015CS20200000 | 1.5 HP      | FR4        | Vertical | NEMA 12           | 6.6 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0015CS203F1110 | 1.5 HP      | FR4        | Vertical | NEMA 12           | 6.6 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0020CS10200000 | 2 HP        | FR4        | Vertical | NEMA 1            | 7.8 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0020CS103F1110 | 2 HP        | FR4        | Vertical | NEMA 1            | 7.8 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0020CS20200000 | 2 HP        | FR4        | Vertical | NEMA 12           | 7.8 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0020CS203F1110 | 2 HP        | FR4        | Vertical | NEMA 12           | 7.8 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0030CS10200000 | 3 HP        | FR4        | Vertical | NEMA 1            | 0.46 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0030CS103F1110 | 3 HP        | FR4        | Vertical | NEMA 1            | 0.46 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0030CS20200000 | 3 HP        | FR4        | Vertical | NEMA 12           | 0.46 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0030CS203F1110 | 3 HP        | FR4        | Vertical | NEMA 12           | 0.46 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0040CS10200000 | 4 HP        | FR4        | Vertical | NEMA 1            | 12.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 11 x 46 x 10.5          | 275 x 1150 x 262.5   | 62 lb  | 28.1 kg |
| NXBK0040CS103F1110 | 4 HP        | FR4        | Vertical | NEMA 1            | 12.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0040CS20200000 | 4 HP        | FR4        | Vertical | NEMA 12           | 12.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0040CS203F1110 | 4 HP        | FR4        | Vertical | NEMA 12           | 12.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0050CS10200000 | 5 HP        | FR5        | Vertical | NEMA 1            | 17.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0050CS103F1110 | 5 HP        | FR5        | Vertical | NEMA 1            | 17.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0050CS20200000 | 5 HP        | FR5        | Vertical | NEMA 12           | 17.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0050CS203F1110 | 5 HP        | FR5        | Vertical | NEMA 12           | 17.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0075CS10200000 | 7.5 HP      | FR5        | Vertical | NEMA 1            | 25 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0075CS103F1110 | 7.5 HP      | FR5        | Vertical | NEMA 1            | 25 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0075DS100F0000 | 7.5 HP      | FR5        | Vertical | NEMA 1            | 25 A                | —               | No                  | Fused Disconnect | No                     | No                | No           |                         |                      |        |         |
| NXBK0075CS20200000 | 7.5 HP      | FR5        | Vertical | NEMA 12           | 25 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0075CS203F1110 | 7.5 HP      | FR5        | Vertical | NEMA 12           | 25 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0100CS10200000 | 10 HP       | FR5        | Vertical | NEMA 1            | 31 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 14 x 53 x 12            | 350 x 1325 x 300     | 99 lb  | 44.9 kg |
| NXBK0100CS103F1110 | 10 HP       | FR5        | Vertical | NEMA 1            | 31 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0100CS20200000 | 10 HP       | FR5        | Vertical | NEMA 12           | 31 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBK0100CS203F1110 | 10 HP       | FR5        | Vertical | NEMA 12           | 31 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBK0150CS10200000 | 15 HP       | FR6        | Vertical | NEMA 1            | 48 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |

# Drives and Cool Blue Bypass

| Product Number     | Horse-power | Frame Type | Layout       | Type of Enclosure | Amp Rating, lvt (A) | Contactor       | Control Transformer | Disconnect Type  | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                        | Weight |          |
|--------------------|-------------|------------|--------------|-------------------|---------------------|-----------------|---------------------|------------------|------------------------|-------------------|--------------|-------------------------|------------------------|--------|----------|
|                    |             |            |              |                   |                     |                 |                     |                  |                        |                   |              | (inch)                  | (mm)                   | (lb)   | (kg)     |
| NXBK0150CS103F1110 | 15 HP       | FR6        | Vertical     | NEMA 1            | 48 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          | 14 x 53 x 12            | 350 x 1325 x 300       | 99 lb  | 44.9 kg  |
| NXBK0150CS112F0010 | 15 HP       | FR6        | Vertical     | NEMA 1            | 48 A                | Two Contactor   | No                  | Fused Disconnect | Yes                    | No                | No           |                         |                        |        |          |
| NXBK0150CS20200000 | 15 HP       | FR6        | Vertical     | NEMA 12           | 48 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0150CS203F1110 | 15 HP       | FR6        | Vertical     | NEMA 12           | 48 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                        |        |          |
| NXBK0200CS10200000 | 20 HP       | FR6        | Vertical     | NEMA 1            | 61 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0200CS103F1110 | 20 HP       | FR6        | Vertical     | NEMA 1            | 61 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                        |        |          |
| NXBK0200CS20200000 | 20 HP       | FR6        | Vertical     | NEMA 12           | 61 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0200CS203F1110 | 20 HP       | FR6        | Vertical     | NEMA 12           | 61 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          | 16 x 62 x 13            | 400 x 1550 x 325       | 154 lb | 69.8 kg  |
| NXBK0250CS10200000 | 25 HP       | FR7        | Vertical     | NEMA 1            | 75 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0250CS103F1110 | 25 HP       | FR7        | Vertical     | NEMA 1            | 75 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                        |        |          |
| NXBK0250CS20200000 | 25 HP       | FR7        | Vertical     | NEMA 12           | 75 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0300CS10200000 | 30 HP       | FR7        | Vertical     | NEMA 1            | 88 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0300CS103F1110 | 30 HP       | FR7        | Vertical     | NEMA 1            | 88 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                        |        |          |
| NXBK0300CS20200000 | 30 HP       | FR7        | Vertical     | NEMA 12           | 88 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0400CS10200000 | 40 HP       | FR8        | Side by Side | NEMA 1            | 114 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 36 x 54 x 16            | 914.4 x 1371.6 x 406.4 | 360 lb | 163.3 kg |
| NXBK0400CS103F1110 | 40 HP       | FR8        | Side by Side | NEMA 1            | 114 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                        |        |          |
| NXBK0400CS20200000 | 40 HP       | FR8        | Side by Side | NEMA 12           | 114 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0500CS10200000 | 50 HP       | FR8        | Side by Side | NEMA 1            | 140 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0500CS103F1110 | 50 HP       | FR8        | Side by Side | NEMA 1            | 140 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                        |        |          |
| NXBK0500CS20200000 | 50 HP       | FR8        | Side by Side | NEMA 12           | 140 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0600CS10200000 | 60 HP       | FR8        | Side by Side | NEMA 1            | 170 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0600CS103F1110 | 60 HP       | FR8        | Side by Side | NEMA 1            | 170 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                        |        |          |
| NXBK0600CS20200000 | 60 HP       | FR8        | Side by Side | NEMA 12           | 170 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0750CS10200000 | 75 HP       | FR8        | Side by Side | NEMA 1            | 205 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |
| NXBK0750CS103F1110 | 75 HP       | FR8        | Side by Side | NEMA 1            | 205 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                        |        |          |
| NXBK0750CS20200000 | 75 HP       | FR8        | Side by Side | NEMA 12           | 205 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                        |        |          |

## 230Volt

Bypass ..... Cool Blue

| Product Number     | Horse-power | Frame Type | Layout   | Type of Enclosure | Amp Rating, lvt (A) | Contactor       | Control Transformer | Disconnect Type  | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|-------------|------------|----------|-------------------|---------------------|-----------------|---------------------|------------------|------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |             |            |          |                   |                     |                 |                     |                  |                        |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBS0015CS10200000 | 1.5 HP      | FR4        | Vertical | NEMA 1            | 6.6 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBS0015CS103F1110 | 1.5 HP      | FR4        | Vertical | NEMA 1            | 6.6 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |

# Drives and Cool Blue Bypass

| Product Number     | Horse-power | Frame Type | Layout   | Type of Enclosure | Amp Rating, lvt (A) | Contactor       | Control Transformer | Disconnect Type  | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|-------------|------------|----------|-------------------|---------------------|-----------------|---------------------|------------------|------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |             |            |          |                   |                     |                 |                     |                  |                        |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBS0015CS20200000 | 1.5 HP      | FR4        | Vertical | NEMA 12           | 6.6 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  |         |
| NXBS0015CS203F1110 | 1.5 HP      | FR4        | Vertical | NEMA 12           | 6.6 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0020CS10200000 | 2 HP        | FR4        | Vertical | NEMA 1            | 7.8 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0020CS103F1110 | 2 HP        | FR4        | Vertical | NEMA 1            | 7.8 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0020CS20200000 | 2 HP        | FR4        | Vertical | NEMA 12           | 7.8 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0020CS203F1110 | 2 HP        | FR4        | Vertical | NEMA 12           | 7.8 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0030CS10200000 | 3 HP        | FR4        | Vertical | NEMA 1            | 11.0 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0030CS103F1110 | 3 HP        | FR4        | Vertical | NEMA 1            | 11.0 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0030CS20200000 | 3 HP        | FR4        | Vertical | NEMA 12           | 11.0 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0030CS203F1110 | 3 HP        | FR4        | Vertical | NEMA 12           | 11.0 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0040CS10200000 | 4 HP        | FR4        | Vertical | NEMA 1            | 12.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0040CS103F1110 | 4 HP        | FR4        | Vertical | NEMA 1            | 12.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0040CS20200000 | 4 HP        | FR4        | Vertical | NEMA 12           | 12.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 11 x 46 x 10.5          | 275 x 1150 x 262.5   | 62 lb  | 28.1 kg |
| NXBS0040CS203F1110 | 4 HP        | FR4        | Vertical | NEMA 12           | 12.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0050CS10200000 | 5 HP        | FR5        | Vertical | NEMA 1            | 17.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0050CS103F1110 | 5 HP        | FR5        | Vertical | NEMA 1            | 17.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0050CS20200000 | 5 HP        | FR5        | Vertical | NEMA 12           | 17.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0050CS203F1110 | 5 HP        | FR5        | Vertical | NEMA 12           | 17.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0075CS10200000 | 7.5 HP      | FR5        | Vertical | NEMA 1            | 25 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0075CS103F1110 | 7.5 HP      | FR5        | Vertical | NEMA 1            | 25 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0075CS20200000 | 7.5 HP      | FR5        | Vertical | NEMA 12           | 25 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0075CS203F1110 | 7.5 HP      | FR5        | Vertical | NEMA 12           | 25 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0100CS10200000 | 10 HP       | FR5        | Vertical | NEMA 1            | 31 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 14 x 53 x 12            | 350 x 1325 x 300     | 99 lb  | 44.9 kg |
| NXBS0100CS103F1110 | 10 HP       | FR5        | Vertical | NEMA 1            | 31 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0100CS20200000 | 10 HP       | FR5        | Vertical | NEMA 12           | 31 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0100CS203F1110 | 10 HP       | FR5        | Vertical | NEMA 12           | 31 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0150CS10200000 | 15 HP       | FR6        | Vertical | NEMA 1            | 48 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0150CS103F1110 | 15 HP       | FR6        | Vertical | NEMA 1            | 48 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0150CS20200000 | 15 HP       | FR6        | Vertical | NEMA 12           | 48 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0150CS203F1110 | 15 HP       | FR6        | Vertical | NEMA 12           | 48 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0200CS10200000 | 20 HP       | FR6        | Vertical | NEMA 1            | 61 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBS0200CS103F1110 | 20 HP       | FR6        | Vertical | NEMA 1            | 61 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBS0200CS20200000 | 20 HP       | FR6        | Vertical | NEMA 12           | 61 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |

# Drives and Cool Blue Bypass

| Product Number     | Horse-power | Frame Type | Layout       | Type of Enclosure | Amp Rating, lvt (A) | Cont-actor      | Control Trans-former | Dis-connect Type | Drive Input Disconne ct | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                        | Weight |          |
|--------------------|-------------|------------|--------------|-------------------|---------------------|-----------------|----------------------|------------------|-------------------------|-------------------|--------------|-------------------------|------------------------|--------|----------|
|                    |             |            |              |                   |                     |                 |                      |                  |                         |                   |              | (inch)                  | (mm)                   | (lb)   | (kg)     |
| NXBS0200CS203F1110 | 20 HP       | FR6        | Vertical     | NEMA 12           | 61 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          | 14 x 53 x 12            | 350 x 1325 x 300       | 99 lb  | 44.9 kg  |
| NXBS0250CS10200000 | 25 HP       | FR7        | Vertical     | NEMA 1            | 75 A                | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           | 16 x 62 x 13            | 400 x 1550 x 325       | 154 lb | 69.8 kg  |
| NXBS0250CS103F1110 | 25 HP       | FR7        | Vertical     | NEMA 1            | 75 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                        |        |          |
| NXBS0250CS20200000 | 25 HP       | FR7        | Vertical     | NEMA 12           | 75 A                | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |
| NXBS0300CS10200000 | 30 HP       | FR7        | Vertical     | NEMA 1            | 88 A                | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |
| NXBS0300CS103F1110 | 30 HP       | FR7        | Vertical     | NEMA 1            | 88 A                | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                        |        |          |
| NXBS0300CS20200000 | 30 HP       | FR7        | Vertical     | NEMA 12           | 88 A                | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |
| NXBS0400CS10200000 | 40 HP       | FR8        | Side by Side | NEMA 1            | 114 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           | 36 x 54 x 16            | 914.4 x 1371.6 x 406.4 | 360 lb | 163.3 kg |
| NXBS0400CS103F1110 | 40 HP       | FR8        | Side by Side | NEMA 1            | 114 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                        |        |          |
| NXBS0400CS20200000 | 40 HP       | FR8        | Side by Side | NEMA 12           | 114 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |
| NXBS0500CS10200000 | 50 HP       | FR8        | Side by Side | NEMA 1            | 140 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |
| NXBS0500CS103F1110 | 50 HP       | FR8        | Side by Side | NEMA 1            | 140 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                        |        |          |
| NXBS0500CS20200000 | 50 HP       | FR8        | Side by Side | NEMA 12           | 140 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |
| NXBS0600CS10200000 | 60 HP       | FR8        | Side by Side | NEMA 1            | 170 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |
| NXBS0600CS103F1110 | 60 HP       | FR8        | Side by Side | NEMA 1            | 170 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                        |        |          |
| NXBS0600CS20200000 | 60 HP       | FR8        | Side by Side | NEMA 12           | 170 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |
| NXBS0750CS10200000 | 75 HP       | FR8        | Side by Side | NEMA 1            | 205 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |
| NXBS0750CS103F1110 | 75 HP       | FR8        | Side by Side | NEMA 1            | 205 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                        |        |          |
| NXBS0750CS20200000 | 75 HP       | FR8        | Side by Side | NEMA 12           | 205 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                        |        |          |

## 230Volt

Bypass ..... Disconnect only

| Product Number     | Horse-power | Frame Type | Layout   | Type of Enclosure | Amp Rating, lvt (A) | Control Trans-former | Dis-connect Type | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                    | Weight |         |
|--------------------|-------------|------------|----------|-------------------|---------------------|----------------------|------------------|------------------------|-------------------|--------------|-------------------------|--------------------|--------|---------|
|                    |             |            |          |                   |                     |                      |                  |                        |                   |              | (inch)                  | (mm)               | (lb)   | (kg)    |
| NXBS0030DS100F0000 | 3 HP        | FR4        | Vertical | NEMA 1            | 11.0 A              | No                   | Fused Disconnect | No                     | No                | No           | 14 x 53 x 12            | 350 x 1325 x 300   | 99 lb  | 44.9 kg |
| NXBS0200DS100F0000 | 20 HP       | FR5        | Vertical | NEMA 1            | 61 A                | No                   | Fused Disconnect | No                     | No                | No           | 11 x 46 x 10.5          | 275 x 1150 x 262.5 | 62 lb  | 28.1 kg |

## 460 Volt

Bypass ..... Cool Blue

| Product Number     | Horse-power | Frame Type | Layout   | Type of Enclosure | Amp Rating, lvt (A) | Cont-actor      | Control Trans-former | Dis-connect Type | Drive Input Dis-connect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|-------------|------------|----------|-------------------|---------------------|-----------------|----------------------|------------------|-------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |             |            |          |                   |                     |                 |                      |                  |                         |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBJ0015CS10200000 | 1.5 HP      | FR4        | Vertical | NEMA 1            | 3.3 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBJ0015CS103F1110 | 1.5 HP      | FR4        | Vertical | NEMA 1            | 3.3 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                      |        |         |
| NXBJ0015CS20200000 | 1.5 HP      | FR4        | Vertical | NEMA 12           | 3.3 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                      |        |         |
| NXBJ0015CS203F1110 | 1.5 HP      | FR4        | Vertical | NEMA 12           | 3.3 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                      |        |         |

# Drives and Cool Blue Bypass

| Product Number     | Horsepower | Frame Type | Layout   | Type of Enclosure | Amp Rating, lvt (A) | Contactor       | Control Transformer | Disconnect Type  | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|------------|------------|----------|-------------------|---------------------|-----------------|---------------------|------------------|------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |            |            |          |                   |                     |                 |                     |                  |                        |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBJ0020CS10200000 | 2 HP       | FR4        | Vertical | NEMA 1            | 4.3 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBJ0020CS103F1110 | 2 HP       | FR4        | Vertical | NEMA 1            | 4.3 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0020CS20200000 | 2 HP       | FR4        | Vertical | NEMA 12           | 4.3 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0020CS203F1110 | 2 HP       | FR4        | Vertical | NEMA 12           | 4.3 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0030CS10200000 | 3 HP       | FR4        | Vertical | NEMA 1            | 5.6 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0030CS103F1110 | 3 HP       | FR4        | Vertical | NEMA 1            | 5.6 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0030CS20200000 | 3 HP       | FR4        | Vertical | NEMA 12           | 5.6 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0030CS203F1110 | 3 HP       | FR4        | Vertical | NEMA 12           | 5.6 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0040CS10200000 | 4 HP       | FR4        | Vertical | NEMA 1            | 7.6 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0040CS103F1110 | 4 HP       | FR4        | Vertical | NEMA 1            | 7.6 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0040CS20200000 | 4 HP       | FR4        | Vertical | NEMA 12           | 7.6 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0040CS203F1110 | 4 HP       | FR4        | Vertical | NEMA 12           | 7.6 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0050CS10200000 | 5 HP       | FR4        | Vertical | NEMA 1            | 0.37 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0050CS103F1110 | 5 HP       | FR4        | Vertical | NEMA 1            | 0.37 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0050CS20200000 | 5 HP       | FR4        | Vertical | NEMA 12           | 0.37 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0050CS203F1110 | 5 HP       | FR4        | Vertical | NEMA 12           | 0.37 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0050CS30200000 | 5 HP       | FR4        | Vertical | NEMA 3R           | 0.37 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 20 x 24 x 10            | 500 x 600 x 250      | 54 lb  | 24.5 kg |
| NXBJ0075CS10200000 | 7.5 HP     | FR4        | Vertical | NEMA 1            | 0                   | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBJ0075CS103F1110 | 7.5 HP     | FR4        | Vertical | NEMA 1            | 0                   | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0075CS113F1110 | 7.5 HP     | FR4        | Vertical | NEMA 1            | 0                   | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0075CS20200000 | 7.5 HP     | FR4        | Vertical | NEMA 12           | 0                   | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0075CS203F1110 | 7.5 HP     | FR4        | Vertical | NEMA 12           | 0                   | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0100CS10200000 | 10 HP      | FR5        | Vertical | NEMA 1            | 16 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 11 x 46 x 10.5          | 275 x 1150 x 262.5   | 62 lb  | 28.1 kg |
| NXBJ0100CS103F1110 | 10 HP      | FR5        | Vertical | NEMA 1            | 16 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0100CS113F1110 | 10 HP      | FR5        | Vertical | NEMA 1            | 16 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0100CS20200000 | 10 HP      | FR5        | Vertical | NEMA 12           | 16 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0100CS203F1110 | 10 HP      | FR5        | Vertical | NEMA 12           | 16 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0150CS10200000 | 15 HP      | FR5        | Vertical | NEMA 1            | 23 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0150CS10200011 | 15 HP      | FR5        | Vertical | NEMA 1            | 23 A                | Two Contactor   | No                  | No Disconnect    | Yes                    | Yes               | No           |                         |                      |        |         |
| NXBJ0150CS103F1110 | 15 HP      | FR5        | Vertical | NEMA 1            | 23 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0150CS113F1110 | 15 HP      | FR5        | Vertical | NEMA 1            | 23 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBJ0150CS20200000 | 15 HP      | FR5        | Vertical | NEMA 12           | 23 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBJ0150CS203F1110 | 15 HP      | FR5        | Vertical | NEMA 12           | 23 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |

# Drives and Cool Blue Bypass

| Product Number     | Horsepower | Frame Type | Layout   | Type of Enclosure                       | Amp Rating, lvt (A) | Contactor       | Control Transformer | Disconnect Type  | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                    | Weight |         |
|--------------------|------------|------------|----------|-----------------------------------------|---------------------|-----------------|---------------------|------------------|------------------------|-------------------|--------------|-------------------------|--------------------|--------|---------|
|                    |            |            |          |                                         |                     |                 |                     |                  |                        |                   |              | (inch)                  | (mm)               | (lb)   | (kg)    |
| NXBJ0150CS30200000 | 15 HP      | FR5        | Vertical | NEMA 3R                                 | 23 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 24 x 30 x 10            | 600 x 750 x 250    | 78 lb  | 35.4 kg |
| NXBJ0200CS10200000 | 20 HP      | FR5        | Vertical | NEMA 1                                  | 31 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 11 x 46 x 10.5          | 275 x 1150 x 262.5 | 62 lb  | 28.1 kg |
| NXBJ0200CS10200011 | 20 HP      | FR5        | Vertical | NEMA 1                                  | 31 A                | Two Contactor   | No                  | Circuit Breaker  | Yes                    | Yes               | No           |                         |                    |        |         |
| NXBJ0200CS103F1110 | 20 HP      | FR5        | Vertical | NEMA 1                                  | 31 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0200CS20200000 | 20 HP      | FR5        | Vertical | NEMA 12                                 | 31 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0200CS203F1110 | 20 HP      | FR5        | Vertical | NEMA 12                                 | 31 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0200CS60200000 | 20 HP      | FR5        | Vertical | NEMA 3R with Cooling Fan and Heat Strip | 31 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 24 x 30 x 10            | 600 x 750 x 250    | 78 lb  | 35.4 kg |
| NXBJ0250CS10200000 | 25 HP      | FR6        | Vertical | NEMA 1                                  | 38 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 14 x 53 x 12            | 350 x 1325 x 300   | 99 lb  | 44.9 kg |
| NXBJ0250CS103F1110 | 25 HP      | FR6        | Vertical | NEMA 1                                  | 38 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0250CS20200000 | 25 HP      | FR6        | Vertical | NEMA 12                                 | 38 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0250CS203F1110 | 25 HP      | FR6        | Vertical | NEMA 12                                 | 38 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0300CS10200000 | 30 HP      | FR6        | Vertical | NEMA 1                                  | 46 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0300CS10200011 | 30 HP      | FR6        | Vertical | NEMA 1                                  | 46 A                | Two Contactor   | No                  | No Disconnect    | Yes                    | Yes               | No           |                         |                    |        |         |
| NXBJ0300CS103F1110 | 30 HP      | FR6        | Vertical | NEMA 1                                  | 46 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0300CS20200000 | 30 HP      | FR6        | Vertical | NEMA 12                                 | 46 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0300CS203F1110 | 30 HP      | FR6        | Vertical | NEMA 12                                 | 46 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0400CS10200000 | 40 HP      | FR6        | Vertical | NEMA 1                                  | 61 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0400CS103F1110 | 40 HP      | FR6        | Vertical | NEMA 1                                  | 61 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          | 16 x 62 x 13            | 400 x 1550 x 325   | 154 lb | 69.8 kg |
| NXBJ0400CS20200000 | 40 HP      | FR6        | Vertical | NEMA 12                                 | 61 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0400CS203F1110 | 40 HP      | FR6        | Vertical | NEMA 12                                 | 61 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0500CS10200000 | 50 HP      | FR7        | Vertical | NEMA 1                                  | 72 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0500CS10200011 | 50 HP      | FR7        | Vertical | NEMA 1                                  | 72 A                | Two Contactor   | No                  | No Disconnect    | Yes                    | Yes               | No           |                         |                    |        |         |
| NXBJ0500CS103F1110 | 50 HP      | FR7        | Vertical | NEMA 1                                  | 72 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0500CS20200000 | 50 HP      | FR7        | Vertical | NEMA 12                                 | 72 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0500CS203F1110 | 50 HP      | FR7        | Vertical | NEMA 12                                 | 72 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0600CS10200000 | 60 HP      | FR7        | Vertical | NEMA 1                                  | 87 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0600CS103F1110 | 60 HP      | FR7        | Vertical | NEMA 1                                  | 87 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0600CS20200000 | 60 HP      | FR7        | Vertical | NEMA 12                                 | 87 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0600CS203F1110 | 60 HP      | FR7        | Vertical | NEMA 12                                 | 87 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |
| NXBJ0750CS10200000 | 75 HP      | FR7        | Vertical | NEMA 1                                  | 105 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                    |        |         |
| NXBJ0750CS103F1110 | 75 HP      | FR7        | Vertical | NEMA 1                                  | 105 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                    |        |         |

# Drives and Cool Blue Bypass

| Product Number     | Horse-power | Frame Type | Layout       | Type of Enclosure | Amp Rating, lvt (A) | Cont-actor      | Control Trans-former | Dis-connect Type | Drive Input Dis-connect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                  | Weight |          |
|--------------------|-------------|------------|--------------|-------------------|---------------------|-----------------|----------------------|------------------|-------------------------|-------------------|--------------|-------------------------|------------------|--------|----------|
|                    |             |            |              |                   |                     |                 |                      |                  |                         |                   |              | (inch)                  | (mm)             | (lb)   | (kg)     |
| NXBJ0750CS20200000 | 75 HP       | FR7        | Vertical     | NEMA 12           | 105 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           | 16 x 62 x 13            | 400 x 1550 x 325 | 154 lb | 69.8 kg  |
| NXBJ0750CS203F1110 | 75 HP       | FR7        | Vertical     | NEMA 12           | 105 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                  |        |          |
| NXBJ1000CS10200000 | 100 HP      | FR8        | Side by Side | NEMA 1            | 140 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           | 36 x 54 x 16            | 900 x 1350 x 400 | 360 lb | 163.3 kg |
| NXBJ1000CS103F1110 | 100 HP      | FR8        | Side by Side | NEMA 1            | 140 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                  |        |          |
| NXBJ1000CS20200000 | 100 HP      | FR8        | Side by Side | NEMA 12           | 140 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                  |        |          |
| NXBJ1000CS203F1110 | 100 HP      | FR8        | Side by Side | NEMA 12           | 140 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                  |        |          |
| NXBJ1250CS10200000 | 125 HP      | FR8        | Side by Side | NEMA 1            | 170 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                  |        |          |
| NXBJ1250CS103F1110 | 125 HP      | FR8        | Side by Side | NEMA 1            | 170 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                  |        |          |
| NXBJ1250CS20200000 | 125 HP      | FR8        | Side by Side | NEMA 12           | 170 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                  |        |          |
| NXBJ1250CS203F1110 | 125 HP      | FR8        | Side by Side | NEMA 12           | 170 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                  |        |          |
| NXBJ1500CS10200000 | 150 HP      | FR8        | Side by Side | NEMA 1            | 205 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                  |        |          |
| NXBJ1500CS103F1110 | 150 HP      | FR8        | Side by Side | NEMA 1            | 205 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                  |        |          |
| NXBJ1500CS20200000 | 150 HP      | FR8        | Side by Side | NEMA 12           | 205 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                  |        |          |
| NXBJ1500CS203F1110 | 150 HP      | FR8        | Side by Side | NEMA 12           | 205 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                  |        |          |

## 460 Volt

Bypass .....Disconnect only

| Product Number     | Horse-power | Frame Type         | Layout   | Type of Enclosure | Amp Rating, lvt (A) | Control Trans-former | Dis-connect Type | Drive Input Dis-connect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight             |         |
|--------------------|-------------|--------------------|----------|-------------------|---------------------|----------------------|------------------|-------------------------|-------------------|--------------|-------------------------|----------------------|--------------------|---------|
|                    |             |                    |          |                   |                     |                      |                  |                         |                   |              | (inch)                  | (mm)                 | (lb)               | (kg)    |
| NXBJ0150DS300F0000 | 15 HP       | Call Customer Care | Vertical | NEMA 3R           | 23 A                | No                   | Fused Disconnect | No                      | No                | No           | Call Customer Care      |                      | Call Customer Care |         |
| NXBJ0200DS300F0000 | 20 HP       | Call Customer Care | Vertical | NEMA 3R           | 31 A                | No                   | Fused Disconnect | No                      | No                | No           | Call Customer Care      |                      | Call Customer Care |         |
| NXBJ0400DS100F0000 | 40 HP       | FR4                | Vertical | NEMA 1            | 61 A                | No                   | Fused Disconnect | No                      | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb              | 19.5 kg |
| NXBJ0600DS100F0000 | 60 HP       | FR7                | Vertical | NEMA 1            | 87 A                | No                   | Fused Disconnect | No                      | No                | No           | 16 x 62 x 13            | 400 x 1550 x 325     | 154 lb             | 69.8 kg |

## 575 Volt

Bypass .....Cool Blue

| Product Number     | Horse-power | Frame Type | Layout   | Type of Enclosure | Amp Rating, lvt (A) | Cont-actor      | Control Trans-former | Dis-connect Type | Drive Input Dis-connect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|-------------|------------|----------|-------------------|---------------------|-----------------|----------------------|------------------|-------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |             |            |          |                   |                     |                 |                      |                  |                         |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBL0030CS10200000 | 3 HP        | FR4        | Vertical | NEMA 1            | 4.5 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBL0030CS103F1110 | 3 HP        | FR4        | Vertical | NEMA 1            | 4.5 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                      |        |         |
| NXBL0030CS20200000 | 3 HP        | FR4        | Vertical | NEMA 12           | 4.5 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                      |        |         |
| NXBL0030CS203F1110 | 3 HP        | FR4        | Vertical | NEMA 12           | 4.5 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                      |        |         |
| NXBL0040CS10200000 | 4 HP        | FR4        | Vertical | NEMA 1            | 5.5 A               | Two Contactor   | No                   | No Disconnect    | No                      | No                | No           |                         |                      |        |         |
| NXBL0040CS103F1110 | 4 HP        | FR4        | Vertical | NEMA 1            | 5.5 A               | Three Contactor | Yes                  | Fused Disconnect | Yes                     | No                | Yes          |                         |                      |        |         |

# Drives and Cool Blue Bypass

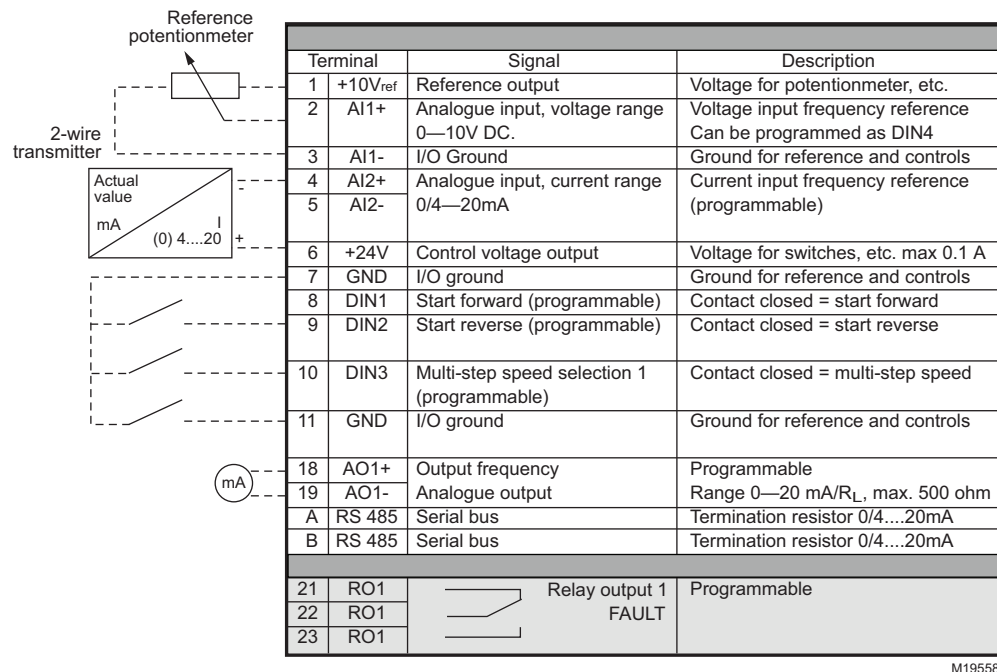
| Product Number     | Horse-power | Frame Type | Layout   | Type of Enclosure | Amp Rating, lvt (A) | Contactor       | Control Transformer | Disconnect Type  | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                      | Weight |         |
|--------------------|-------------|------------|----------|-------------------|---------------------|-----------------|---------------------|------------------|------------------------|-------------------|--------------|-------------------------|----------------------|--------|---------|
|                    |             |            |          |                   |                     |                 |                     |                  |                        |                   |              | (inch)                  | (mm)                 | (lb)   | (kg)    |
| NXBL0040CS20200000 | 4 HP        | FR4        | Vertical | NEMA 12           | 5.5 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 9.5 x 40 x 9.5          | 237.5 x 1000 x 237.5 | 43 lb  | 19.5 kg |
| NXBL0040CS203F1110 | 4 HP        | FR4        | Vertical | NEMA 12           | 5.5 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0050CS10200000 | 5 HP        | FR4        | Vertical | NEMA 1            | 7.5 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0050CS103F1110 | 5 HP        | FR4        | Vertical | NEMA 1            | 7.5 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0050CS20200000 | 5 HP        | FR4        | Vertical | NEMA 12           | 7.5 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0050CS203F1110 | 5 HP        | FR4        | Vertical | NEMA 12           | 7.5 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0075CS10200000 | 7.5 HP      | FR4        | Vertical | NEMA 1            | 0.42 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0075CS103F1110 | 7.5 HP      | FR4        | Vertical | NEMA 1            | 0.42 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0075CS20200000 | 7.5 HP      | FR4        | Vertical | NEMA 12           | 0.42 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0075CS203F1110 | 7.5 HP      | FR4        | Vertical | NEMA 12           | 0.42 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0100CS10200000 | 10 HP       | FR5        | Vertical | NEMA 1            | 13.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 11 x 46 x 10.5          | 275 x 1150 x 262.5   | 62 lb  | 28.1 kg |
| NXBL0100CS103F1110 | 10 HP       | FR5        | Vertical | NEMA 1            | 13.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0100CS20200000 | 10 HP       | FR5        | Vertical | NEMA 12           | 13.5 A              | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0100CS203F1110 | 10 HP       | FR5        | Vertical | NEMA 12           | 13.5 A              | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0150CS10200000 | 15 HP       | FR5        | Vertical | NEMA 1            | 18 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0150CS103F1110 | 15 HP       | FR5        | Vertical | NEMA 1            | 18 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0150CS20200000 | 15 HP       | FR5        | Vertical | NEMA 12           | 18 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0150CS203F1110 | 15 HP       | FR5        | Vertical | NEMA 12           | 18 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0200CS10200000 | 20 HP       | FR5        | Vertical | NEMA 1            | 22 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0200CS103F1110 | 20 HP       | FR5        | Vertical | NEMA 1            | 22 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0200CS20200000 | 20 HP       | FR5        | Vertical | NEMA 12           | 22 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 14 x 53 x 12            | 350 x 1325 x 300     | 99 lb  | 44.9 kg |
| NXBL0200CS203F1110 | 20 HP       | FR5        | Vertical | NEMA 12           | 22 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0250CS10200000 | 25 HP       | FR6        | Vertical | NEMA 1            | 27 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0250CS103F1110 | 25 HP       | FR6        | Vertical | NEMA 1            | 27 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0250CS20200000 | 25 HP       | FR6        | Vertical | NEMA 12           | 27 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0250CS203F1110 | 25 HP       | FR6        | Vertical | NEMA 12           | 27 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0300CS10200000 | 30 HP       | FR6        | Vertical | NEMA 1            | 34 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0300CS103F1110 | 30 HP       | FR6        | Vertical | NEMA 1            | 34 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0300CS20200000 | 30 HP       | FR6        | Vertical | NEMA 12           | 34 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0300CS203F1110 | 30 HP       | FR6        | Vertical | NEMA 12           | 34 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |
| NXBL0400CS10200000 | 40 HP       | FR6        | Vertical | NEMA 1            | 41 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                      |        |         |
| NXBL0400CS103F1110 | 40 HP       | FR6        | Vertical | NEMA 1            | 41 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                      |        |         |

# Drives and Cool Blue Bypass

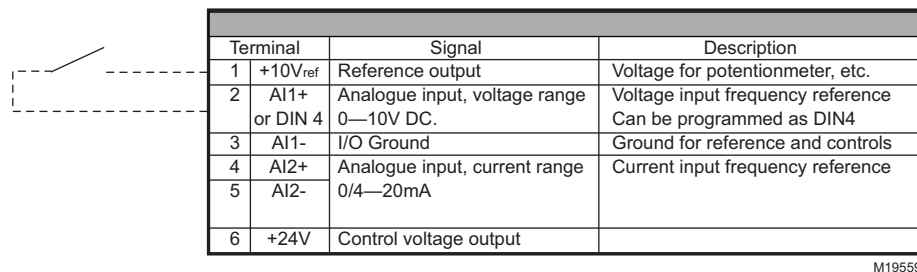
| Product Number     | Horse-power | Frame Type | Layout       | Type of Enclosure | Amp Rating, lvt (A) | Contactor       | Control Transformer | Disconnect Type  | Drive Input Disconnect | Drive Input Fuses | Pilot Lights | Dimensions, Approximate |                  | Weight |          |
|--------------------|-------------|------------|--------------|-------------------|---------------------|-----------------|---------------------|------------------|------------------------|-------------------|--------------|-------------------------|------------------|--------|----------|
|                    |             |            |              |                   |                     |                 |                     |                  |                        |                   |              | (inch)                  | (mm)             | (lb)   | (kg)     |
| NXBL0400CS20200000 | 40 HP       | FR6        | Vertical     | NEMA 12           | 41 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 14 x 53 x 12            | 350 x 1325 x 300 | 99 lb  | 44.9 kg  |
| NXBL0400CS203F1110 | 40 HP       | FR6        | Vertical     | NEMA 12           | 41 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL0500CS10200000 | 50 HP       | FR7        | Vertical     | NEMA 1            | 52 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 16 x 62 x 13            | 400 x 1550 x 325 | 154 lb | 69.8 kg  |
| NXBL0500CS103F1110 | 50 HP       | FR7        | Vertical     | NEMA 1            | 52 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL0500CS20200000 | 50 HP       | FR7        | Vertical     | NEMA 12           | 52 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL0500CS203F1110 | 50 HP       | FR7        | Vertical     | NEMA 12           | 52 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL0600CS10200000 | 60 HP       | FR7        | Vertical     | NEMA 1            | 62 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL0600CS103F1110 | 60 HP       | FR7        | Vertical     | NEMA 1            | 62 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL0600CS20200000 | 60 HP       | FR7        | Vertical     | NEMA 12           | 62 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL0600CS203F1110 | 60 HP       | FR7        | Vertical     | NEMA 12           | 62 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL0750CS10200000 | 75 HP       | FR7        | Vertical     | NEMA 1            | 80 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL0750CS103F1110 | 75 HP       | FR7        | Vertical     | NEMA 1            | 80 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL0750CS20200000 | 75 HP       | FR7        | Vertical     | NEMA 12           | 80 A                | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           | 36 x 54 x 16            | 900 x 1350 x 400 | 360 lb | 163.3 kg |
| NXBL0750CS203F1110 | 75 HP       | FR7        | Vertical     | NEMA 12           | 80 A                | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL1000CS10200000 | 100 HP      | FR8        | Side by Side | NEMA 1            | 100 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL1000CS103F1110 | 100 HP      | FR8        | Side by Side | NEMA 1            | 100 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL1000CS20200000 | 100 HP      | FR8        | Side by Side | NEMA 12           | 100 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL1000CS203F1110 | 100 HP      | FR8        | Side by Side | NEMA 12           | 100 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL1250CS10200000 | 125 HP      | FR8        | Side by Side | NEMA 1            | 125 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL1250CS103F1110 | 125 HP      | FR8        | Side by Side | NEMA 1            | 125 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL1250CS20200000 | 125 HP      | FR8        | Side by Side | NEMA 12           | 125 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL1250CS203F1110 | 125 HP      | FR8        | Side by Side | NEMA 12           | 125 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL1500CS10200000 | 150 HP      | FR8        | Side by Side | NEMA 1            | 144 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL1500CS103F1110 | 150 HP      | FR8        | Side by Side | NEMA 1            | 144 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |
| NXBL1500CS20200000 | 150 HP      | FR8        | Side by Side | NEMA 12           | 144 A               | Two Contactor   | No                  | No Disconnect    | No                     | No                | No           |                         |                  |        |          |
| NXBL1500CS203F1110 | 150 HP      | FR8        | Side by Side | NEMA 12           | 144 A               | Three Contactor | Yes                 | Fused Disconnect | Yes                    | No                | Yes          |                         |                  |        |          |

## Wiring Diagrams

### NXL Drive only

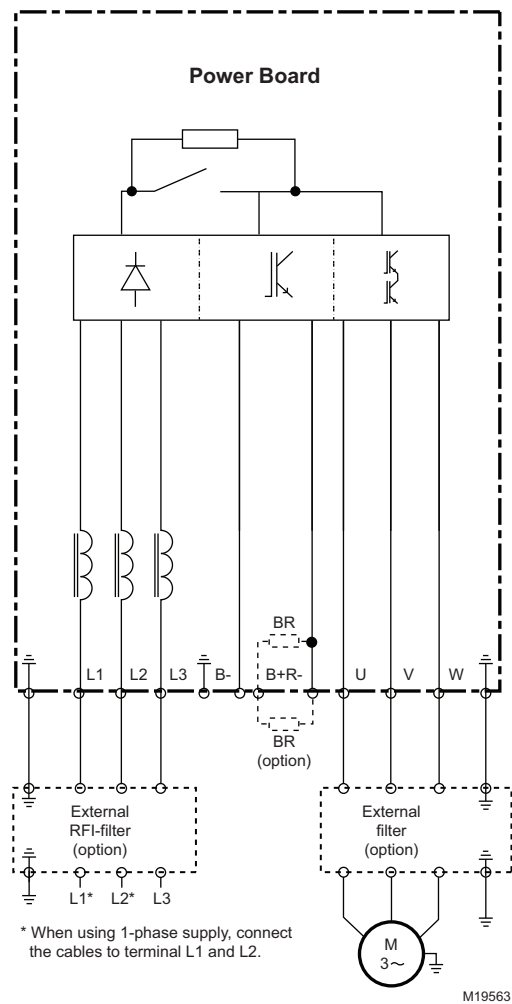


### Multicontrol application default I/O configuration (with 2-wire transmitter)



### The programming of AI1 as DIN4

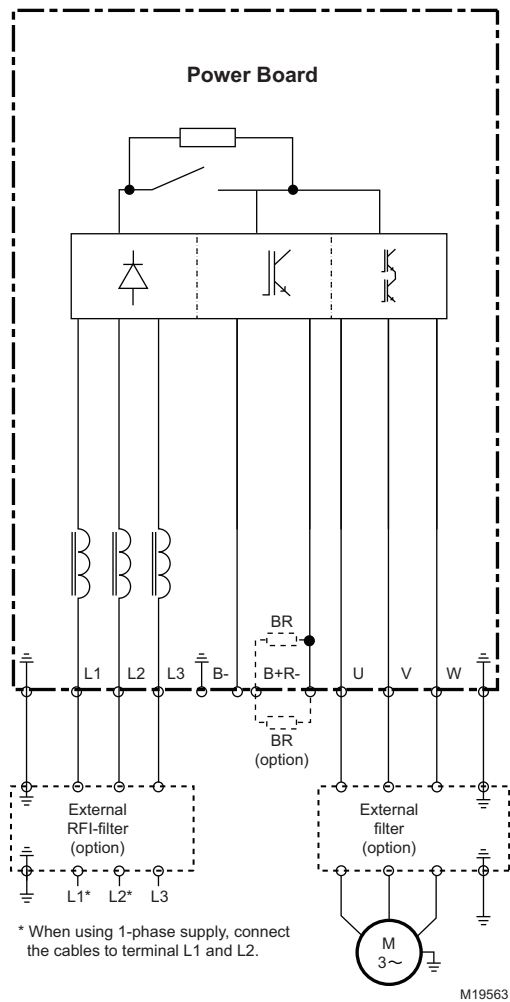
# Wiring Diagrams



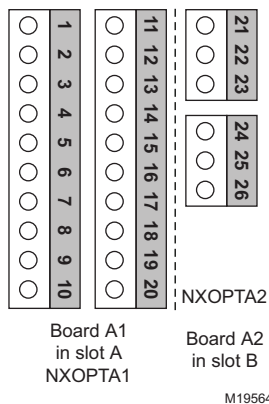
Principal Wiring diagram of NXL5 power unit, MF4 to MF5

# Wiring Diagrams

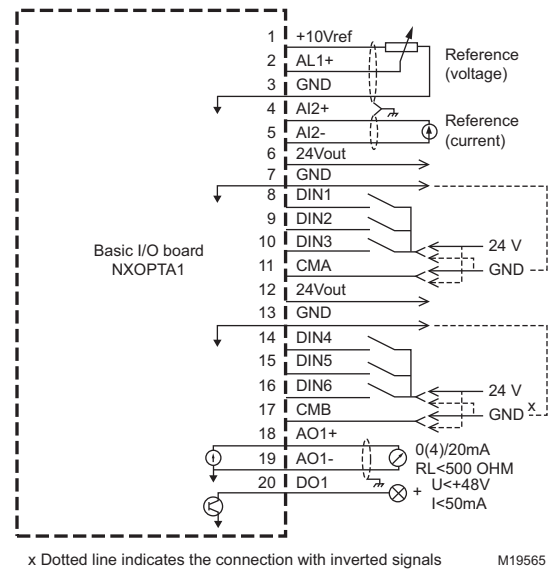
## NXS/NXP Drive only



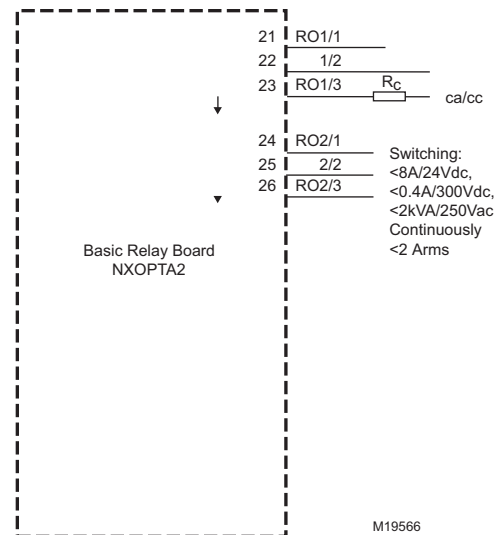
## Principal wiring diagram for NX5 power unit, Fr4 to FR6



## The I/O terminals of the two basic boards

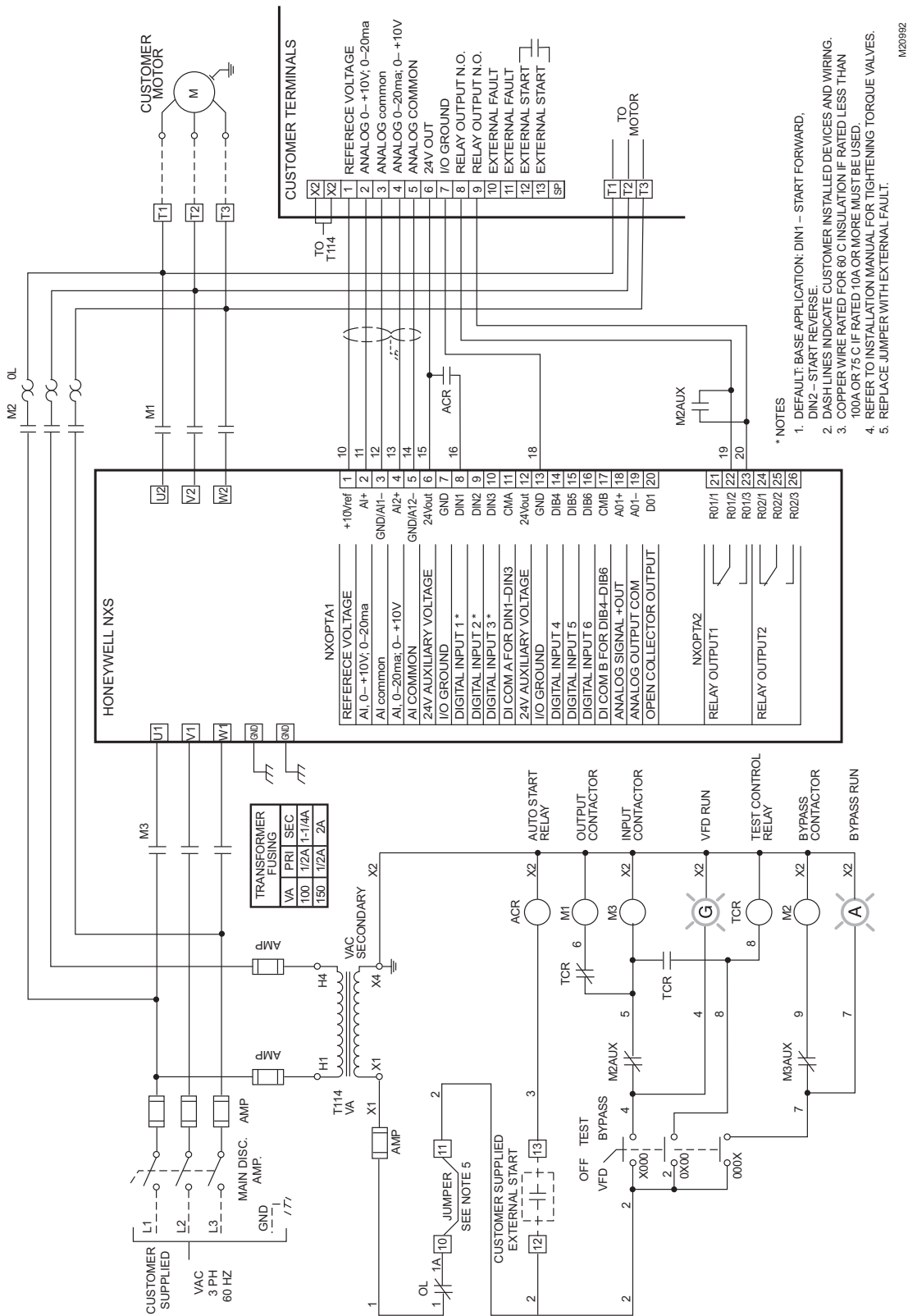


## General wiring diagram of the basic I/O board (NXOPTA1)



## General wiring darkroom of the basic relay board (NXOPTA2)

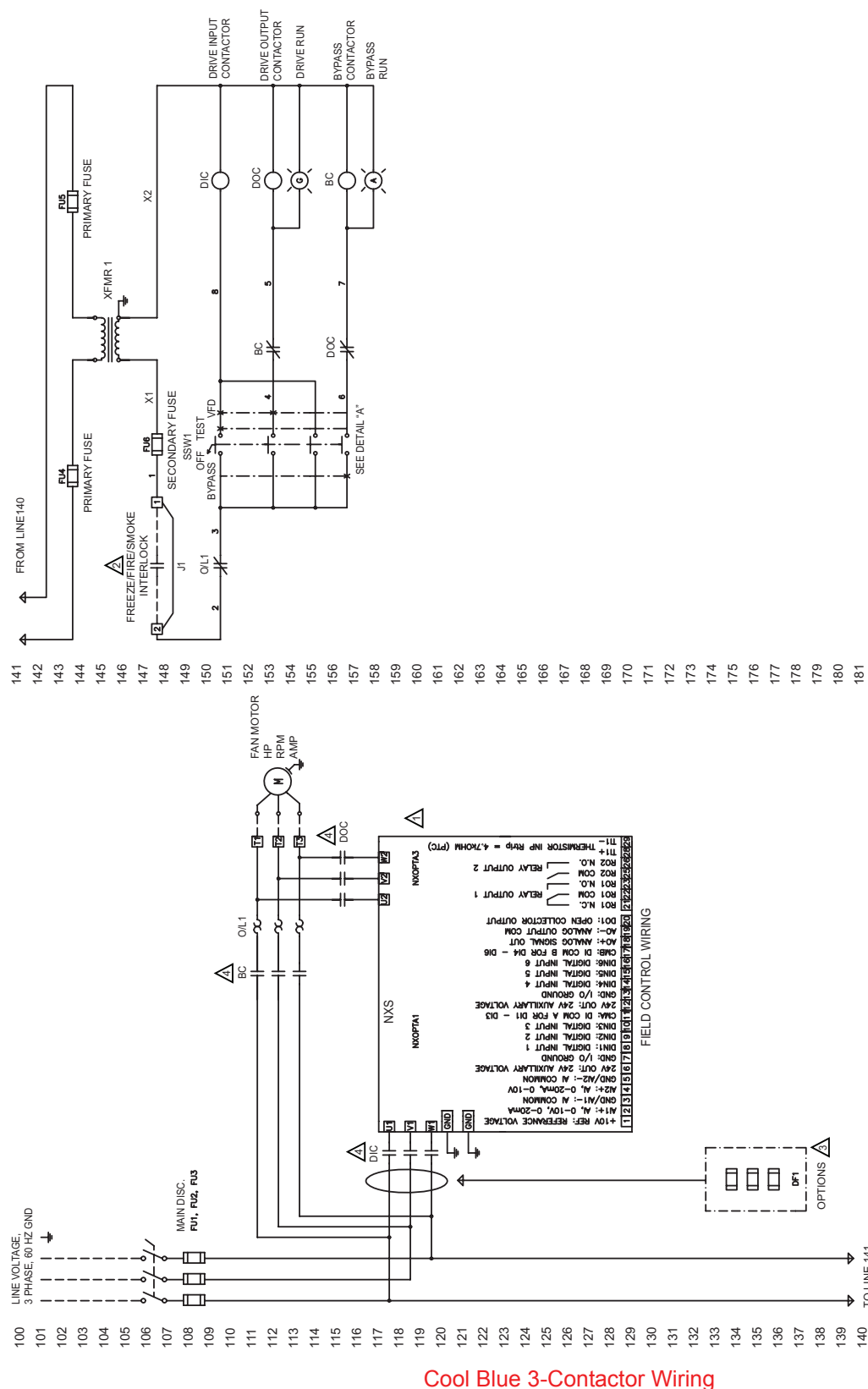
Wiring Diagrams



Wiring Diagram for NXS or NXP Drive with by-pass



## Wiring Diagrams



**A** DEFAULT, BASIC APPLICATION: DN1 - START FORWARD. DN2 - START REVERSE, DN3 - EXT FAULT  $\propto$ .

⚠️ IF CUSTOMER SAFETY INTERLOCK IS USED, REMOVE J1

**3** FAST ACTING DRIVE FUSES.

④ DRIVE INPUT CONTACTOR; DOC - DRIVE OUTPUT CONTACTOR; BC - BYPASS CONTACTOR.

ALL WIRING: USE COPPER WIRE ONLY SUITABLE FOR MIN 75 C, FIELD WIRING, NEC CLASS 1.

--- REMOTE WIRE

————— WIRE INSIDE C/PNL

----- SECTOR SWITCH ACTION

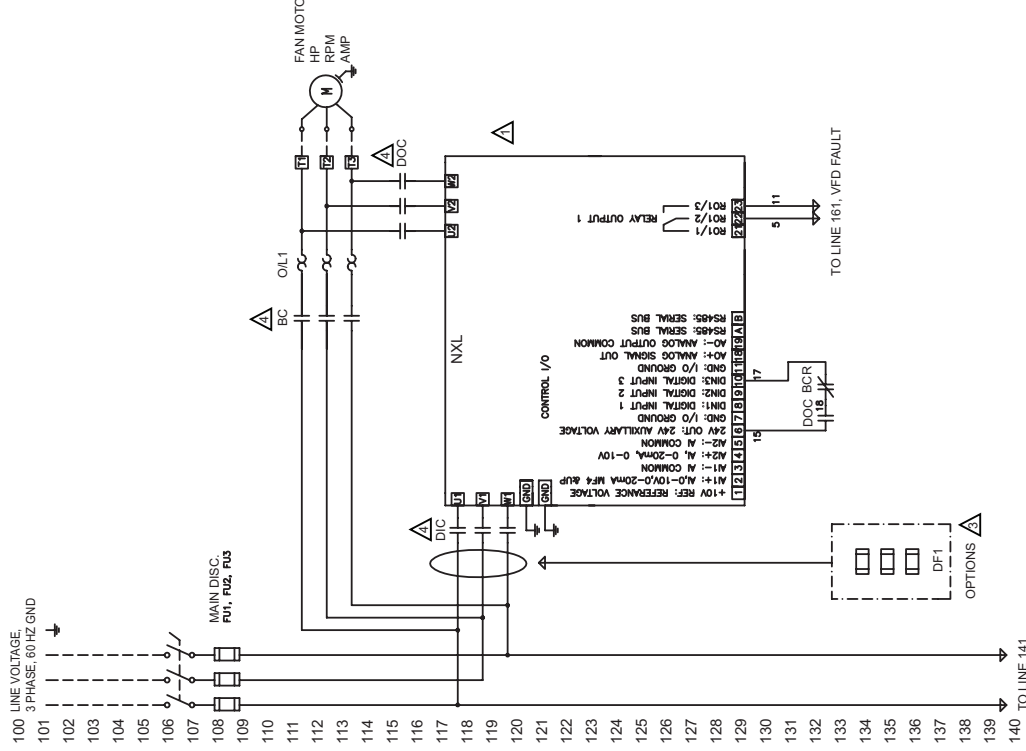
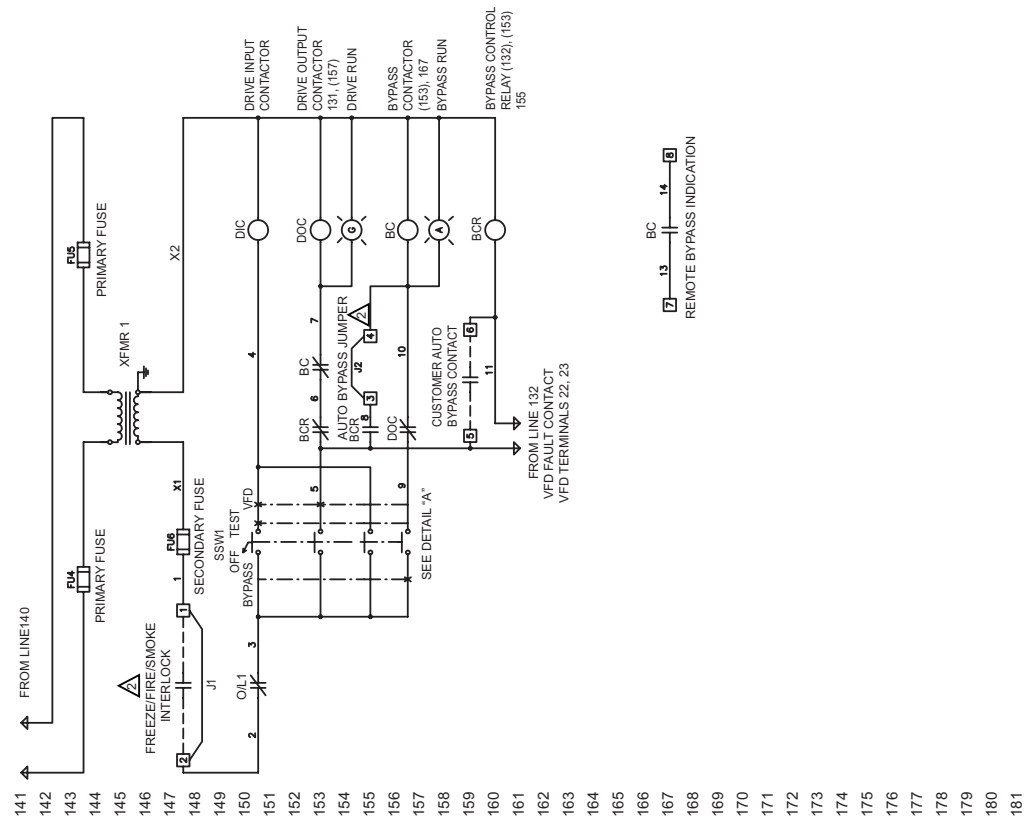
---:--- OPTIONS

SSW1 - FOUR POSITION SEL. SW.  
DETAIL "B"

| SEL SW POSITION | DIC          | DOC          | BC           |
|-----------------|--------------|--------------|--------------|
| BYPASS          | DE-ENERGIZED | DE-ENERGIZED | ENERGIZED    |
| OFF             | DE-ENERGIZED | DE-ENERGIZED | DE-ENERGIZED |
| TEST            | ENERGIZED    | DE-ENERGIZED | DE-ENERGIZED |

WHEN NX5 VFD IS LOCATED INSIDE 3R/4 BYPASS ENCLOSURE,  
CLEAN DRY COOLING AIR MUST BE USED TO KEEP VFD COOL.

M13791



Cool Blue 3-Contactor

- △ DEFAULT: STANDARD APPLICATION: - DN1 - START FORWARD, DN3 - RUN ENABLE.
  - △ IF CUSTOMER SAFETY INTERLOCK IS USED, REMOVE J1. REMOVE J2 FOR MANUAL BYPASS
  - △ DF1 - FAST ACTING DRIVE FUSES.
  - △ DIC - DRIVE INPUT CONTACTOR; DOC - DRIVE OUTPUT CONTACTOR; BC - BYPASS CONTACTOR.
- ALL WIRING: USE COPPER WIRE ONLY SUITABLE FOR MIN 75 C, FIELD WIRING, NEC CLASS 1.
- REMOTE WIRE
  - WIRE INSIDE C/PNL
  - SECTOR SWITCH ACTION
  - OPTIONS

SSW1 - FOUR POSITION SEL. SW.  
DETAIL "B"

| SEL. SW. POSITION | DOC          | DOC          | BC           |
|-------------------|--------------|--------------|--------------|
| BYPASS            | DE-ENERGIZED | DE-ENERGIZED | ENERGIZED    |
| DRIVE             | ENERGIZED    | DE-ENERGIZED | DE-ENERGIZED |
| TEST              | ENERGIZED    | DE-ENERGIZED | DE-ENERGIZED |
| VFD               | ENERGIZED    | ENERGIZED    | DE-ENERGIZED |



# Honeywell

## AUTOMATION AND CONTROL PRODUCTS

### WARRANTY POLICY

Honeywell warrants the products in this catalog (except those parts designated on Honeywell's price lists as not covered by this warranty) to be free from defects due to workmanship or materials, under normal use and service, for the following warranty periods. Honeywell VisionPRO®, Commercial VisionPRO™, FocusPRO®, PRO 4000, PRO 3000, LineVolt™ PRO, Digital Round™, and Modern Round™ (T87K, N) Series Thermostats with a date code of 0501 or later: sixty (60) months from date of installation. CommercialPRO, PRO 2000 and PRO 1000 thermostats: twenty-four (24) months from date of installation. AUBE branded thermostats, timers, and switches: thirty-six (36) months from date of installation. All other Honeywell thermostats and thermostats with a date code of 0452 or earlier: twelve (12) months from date of installation, unless specified otherwise. Honeywell Air Cleaners, Humidifiers, Ventilators, Ultraviolet Treatment and Zoning Products with a date code of 0501 or later, excluding replacement maintenance parts: sixty (60) months from date of installation. Indoor air quality parts F50, F52, F300, F200, F150, UV100E, HE225, HE265, HE365, with date codes of 0452 or earlier, excluding replacement maintenance parts: sixty (60) months from date of installation. All other Honeywell indoor air quality and zoning products with a date code of 0452 or earlier: twenty-four (24) months from date of installation, unless specified otherwise. Variable frequency drive devices (VFD) and accessories: new products for thirty-six (36) months and factory refurbished drives for twelve (12) months from date of installation when start-up and commissioning is performed by Honeywell VFD Authorized and trained personnel. All VFD warranty return products must have prior authorization (Form No. 87-0284) and be returned only to the VFD Service Center in Chattanooga, TN. MS, MN and Fact Acting 2-position Direct Coupled Actuators: sixty (60) months from date of installation. The warranty period for all other products is twelve (12) months from date of installation.

If a product is defective due to workmanship or materials, is removed within the applicable warranty period, and is returned to Honeywell in accordance with the procedure described below, Honeywell will, at its option, either repair, replace or credit the customer for the purchase price of the product, in accordance with the procedure described below. This warranty extends only to persons or organizations who purchase products in this catalog for resale.

The expressed warranty above constitutes the entire warranty of Honeywell with respect to the products in this catalog and IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL HONEYWELL BE RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER.

#### INSTRUCTIONS—INSTALLING OR SERVICING CONTRACTOR OR DEALER

When replacing a Honeywell product under warranty, including those products furnished on original heating and/or cooling equipment, you should rely on your local Honeywell Wholesaler or Distributor for prompt and efficient product replacement service.

A Honeywell Returned Goods Identification Tag (form 87-0030) or an electronic data notification system must be completed and approved by the servicing dealer/contractor prior to submitting the product to the Honeywell Wholesaler or Distributor. (Tags may be obtained from the Wholesaler or Distributor in advance.) No warranty claim for product replacement or credit will be honored by the Wholesaler/Distributor without a completed warranty tag attached or electronic notification.

#### INSTRUCTIONS—WHOLESALE OR DISTRIBUTOR

The following will apply to the return of any product to Honeywell under this warranty:

Any products which are not variable frequency drives are:

- (i) identified with Honeywell's Returned Goods Identification Tag (form 87-0030), or electronic notification system;
- (ii) are listed individually with Returned Goods ID Tag numbers and date codes

- listed on Honeywell's Returned Goods Order (form 71-96024) or a similar form;
  - (iii) packed separately from other returns and protected from shipping damage;
  - (iv) have certification by the installer or servicing dealer that the product was removed, due to failure, within the applicable warranty period;
  - (v) are received transportation pre-paid at:  
Honeywell Return Goods  
Dock 4 MN10-3860  
1885 Douglas Drive  
Golden Valley, MN 55422
  - (vi) and are found by Honeywell's inspection to be defective in workmanship or materials under normal use and service
- will be handled in accordance with one of the two following procedures, as specified by the customer making the return:

All VFD warranty return products must have prior authorization (Form No. 87-0284) and be returned only to the VFD Service Center in Chattanooga, TN.

1. **CREDIT PROCEDURE.** Honeywell will issue credit, at Honeywell's lowest wholesaler net price in effect at the time of the return (as set forth on Honeywell's then current price sheet) or at the actual invoice amount if a copy of that invoice is attached to the packing list. (TRADELINE Replacement Exchange Products will be at Honeywell's lowest replacement exchange net price in effect at the time

of such return, as shown on Honeywell's then current price sheet.) Honeywell reserves the right to disallow this credit option in cases of warranty abuse.

2. **REPAIR OR REPLACEMENT PROCEDURE.** Honeywell will, at its option, either repair or replace the product free of charge and return it or its replacement lowest cost transportation prepaid. The replacement will be a functionally equivalent new TRADELINE product. Premium transportation will be used at customer's request and expense.

The warranty will not be honored if:

- (i) product is damaged or missing parts or accessory items including batteries.
- (ii) product exhibits evidence of field misapplications.

Final disposition of any warranty claim will be determined solely by Honeywell. If inspection by Honeywell does not disclose any defect covered by the warranty, the product will be returned or scrapped as instructed by the customer and Honeywell's regular service charges will apply. Products returned to the customer may be sent shipping charges collect.

If you have any questions relative to product returns to Honeywell, contact your Customer Care Representative:

Honeywell International Inc.  
Customer Care MN10-1461  
1985 Douglas Drive  
Golden Valley, MN 55422  
(763) 954-5720

#### SPECIAL MESSAGE TO INDUSTRIAL USERS AND BUILDING OWNERS

Thank you for using Honeywell products.

As a user, when you purchase a Honeywell product from this catalog you should expect performance from the product and, if it fails, replacement of the product by the installing dealer.

Typically, you will have purchased a Honeywell product under the following circumstances:

1. To modernize or refurbish your existing commercial and/or process control system.
2. You have purchased new commercial and/or process heating, cooling, air cleaning or humidification equipment that

is furnished with Honeywell controls or components (refer to your owner's manual furnished with the equipment).

3. A control has failed on your existing commercial and/or process heating and/or cooling equipment and is replaced by a Honeywell TRADELINE product.

With few exceptions, you utilize the services of a competent plumbing, heating and/or cooling dealer/contractor for new or replacement work performed.

Although our warranty does not extend to you, Honeywell does extend a warranty to your supplier.

Your supplier can rely on its local Honeywell Wholesaler/Distributor or Honeywell for prompt replacement.

If you have any questions, need additional information or would like to comment on Honeywell's products or services, please write or phone:

Honeywell International Inc.  
Customer Care MN10-1461  
1985 Douglas Drive North  
Golden Valley, MN 55422-4386  
(763) 954-5720

or check your telephone directory (white pages) for one of many Honeywell field sales offices.

By using this Honeywell literature, you agree that Honeywell will have no liability for any damages arising out of your use or modification to, the literature. You will defend and indemnify Honeywell, its affiliates and subsidiaries, from and against any liability, cost, or damages, including attorneys' fees, arising out of, or resulting from, any modification to the literature by you.

#### **Automation and Control Solutions**

Honeywell International Inc.  
1985 Douglas Drive North  
Golden Valley, MN 55422  
[customer.honeywell.com](http://customer.honeywell.com)

Honeywell Limited-Honeywell Limitée  
35 Dynamic Drive  
Toronto, Ontario M1V 4Z9

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