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POWERFLEX 70 CONFIGURED DRIVES

Overview

This program enhances standalone drive functionality through additional control, power and packaging options which users with special installation needs.

The program has two levels:

Catalog Configured Drives

The Catalog Configured Drives Program allows users to create drive packages based on their specific needs. A complete package is specified by assembling a single catalog number string that includes a base drive and all required options. Packaging and 575V requirements in NEMA/UL Type 1 (IP20), NEMA/UL Type 4/12 (IP65) indoor and NEMA/UL Type 3/4 (IP65) outdoor consists of a fully defined catalog string identified within this price sheet. Focused on higher volume, repeat business provide consistent manufacturing and minimizes customer resources by reducing engineering, manufacturing and installation delivery is 10 business days from order entry and can be ordered through the Passport order entry system.

Modified Configured Drives

The Modified Configured Drives Program offers users the ability to create drive packages beyond the Catalog Configured Drives. Options may or may not be defined within this publication. Product can be ordered by:

- Assembling a catalog string from the options listed in this publication. Engineered options that are listed within this publication will be specified by the heading “*Modified Configured Drives*” and will have varied lead-times.
- Entering a custom quote request for additional options not listed. A custom quote will require a Passport quote using “SP-SDB-CUSTOM” as the line item part number and enter the base catalog string and custom options in the Competitive Summary. For questions or help with a custom quote request, contact the Engineered Drives Group at 262-512-8415.

Lead Times

Lead Times shown on the following pages are based on these codes:

| Code | Description | Lead Time (Work Days) |
|------|--|-----------------------|
| P | Pre-Engineered (applies to Catalog Configured) | 10 |
| Q | Quick Turn | 20 |
| X | Long Lead Time | 40 |
| C | Custom | 60 * |

* Dependent on options selected.

Catalog Number Explanation

To interpret the meaning of a catalog number, match the values of the catalog number code in positions a, b, c, etc. below.

21A B 9P6 A 3 A Y N A R C 0 NN NN -ND

a b c d e f g h i j k l m n o

| a | |
|--------------|-------------------------|
| Drive | |
| Code | Type |
| 21A | PowerFlex 70 Configured |

| b | | |
|-----------------------|---------|-----------|
| Voltage Rating | | |
| Code | Voltage | Lead Time |
| X | 208V ac | X |
| B | 240V ac | P |
| D | 480V ac | P |
| E | 600V ac | P |

| c1 | | |
|-------------------------|------|------------|
| Amp Rating * | | |
| 208V, 60Hz Input | | |
| Code | Amps | kW (Hp) |
| 2P2 | 2.5 | 0.37 (0.5) |
| 4P2 | 4.8 | 0.75 (1.0) |
| 6P8 | 7.8 | 1.5 (2.0) |
| 9P6 | 11 | 2.2 (3.0) |
| 015 | 17.5 | 4.0 (5.0) |
| 022 | 25.3 | 5.5 (7.5) |
| 028 | 32.2 | 7.5 (10) |
| 042 | 43 | 11 (15) |
| 054 | 62.1 | 15 (20) |
| 070 | 78.2 | 18.5 (25) |

* Maximum continuous rating for normal duty drives.

| c2 | | |
|-------------------------|------|------------|
| Amp Rating * | | |
| 240V, 60Hz Input | | |
| Code | Amps | kW (Hp) |
| 2P2 | 2.2 | 0.37 (0.5) |
| 4P2 | 4.2 | 0.75 (1.0) |
| 6P8 | 6.8 | 1.5 (2.0) |
| 9P6 | 9.6 | 2.2 (3.0) |
| 015 | 15.3 | 4.0 (5.0) |
| 022 | 22 | 5.5 (7.5) |
| 028 | 28 | 7.5 (10) |
| 042 | 42 | 11 (15) |
| 054 | 54 | 15 (20) |

| | | |
|-----|----|-----------|
| 070 | 70 | 18.5 (25) |
|-----|----|-----------|

★ Maximum continuous rating for normal duty drives.

| c3 | | |
|-------------------------|------|------------|
| Amp Rating ★ | | |
| 600V, 60Hz Input | | |
| Code | Amps | kW (Hp) |
| 0P9 | 0.9 | 0.37 (0.5) |
| 1P7 | 1.7 | 0.75 (1.0) |
| 2P7 | 2.7 | 1.5 (2.0) |
| 3P9 | 3.9 | 2.2 (3.0) |
| 6P1 | 6.1 | 4.0 (5.0) |
| 9P0 | 9.0 | 5.5 (7.5) |
| 011 | 11 | 7.5 (10) |
| 017 | 17 | 11 (15) |
| 022 | 22 | 15 (20) |
| 027 | 27 | 18.5 (25) |
| 032 | 32 | 22 (30) |
| 041 | 41 | 30 (40) |
| 052 | 52 | 37 (50) |

★ Maximum continuous rating for normal duty drives.

| d | |
|-----------------------|------------------------|
| Enclosure Type | |
| Code | Enclosure |
| A | NEMA/UL Type 1/IP20 |
| D | NEMA/UL Type 4 Indoor |
| E | NEMA/UL Type 4 Outdoor |
| G | NEMA/UL Type 12 Indoor |

| e | |
|------------|---|
| HIM | |
| Code | Version |
| 0 | No HIM - Blank Plastic Inserted (Drive Mounted) |
| 2 | Digital LCD HIM (Drive Mounted) |
| 3 | Full Numeric LCD HIM (Drive Mounted) |
| 5 | Programmer Only LCD HIM (Drive Mounted) |
| A | Drive Mounted LCD Full Numeric & Door Mounted Bezel w/Blank Cover, NEMA/UL Type 1 |
| B | Drive Mounted LCD Full Numeric & Door Mounted Bezel w/LCD Digital Speed, NEMA/UL Type 1 |
| C | Door Mounted Bezel w/LCD Full Numeric, NEMA/UL Type 1 |
| E | Drive Mounted LCD Full numeric & Door Mounted Bezel w/LCD Programmer Only, NEMA/UL Type 1 |
| F | Drive Mounted LCD Full Numeric & Door Mounted LCD Full Numeric, NEMA/UL Type 1/12 |
| G | Drive Mounted LCD Full Numeric & Door Mounted Programmer Only, NEMA/UL Type 1/12 |
| L | Door Mounted NEMA/UL Type 1/12 Bezel, No HIM, Blank Cover Inserted, NEMA/UL Type 1/12 |

| | |
|---|--|
| J | Door Mounted Full Numeric LCD HIM, NEMA/UL Type 1/12 |
| K | Door Mounted NEMA/UL Type 1/12 Programmer Only |

| | | |
|----------------------|--|------------------|
| f | | |
| Documentation | | |
| Code | Type | Lead Time |
| A | English User Manual and Multi-Language Quick Start | P |
| N | No Manual | P |

| | | |
|--------------|---------------------|------------------|
| g | | |
| Brake | | |
| Code | w/Brake IGBT | Lead Time |
| Y | Yes | P |

| | | |
|-----------------------|-------------------|------------------|
| h | | |
| Brake Resistor | | |
| Code | w/Resistor | Lead Time |
| Y | Yes (Internal) | P |
| N | No | P |

| | | |
|-----------------------|--|--|
| i | | |
| Emission Class | | |
| Code | Rating | |
| A | Filtered* A* & B Frames (Optional) C, D, & E Frames (Standard) | |
| N | Not Filtered* A & B Frames (Optional) C, D, & E Frames | |

* 600V Frames A through D available only without filter (Cat. Code N). 600V Frame E available only with filter (Cat. Code A).

* Increases size to Frame B.

| | | |
|------------------|--------------------|------------------|
| j | | |
| Comm Slot | | |
| Code | Version | Lead Time |
| N | None | P |
| C | ControlNet (Coax) | P |
| D | DeviceNet | P |
| E | EtherNet | P |
| H | RS485 HVAC | P |
| I | Interbus | P |
| L | LonWorks | P |
| P | PROFIBUS | P |
| Q | ControlNet (Fiber) | P |
| R | RIO | P |
| S | RS485 DF-1 | P |

| k | | | |
|------------|----------|-----------|-----------|
| I/O | | | |
| Code | Control | I/O Volts | Lead Time |
| C | Enhanced | 24V dc | P |
| D | Enhanced | 115V ac | P |

| l | | |
|-----------------|----------------|-----------|
| Feedback | | |
| Code | Type | Lead Time |
| 0 | None | P |
| 1 | Encoder, 5/12V | P |

| m | | |
|----------|----------|-----------|
| Code | Rating | Lead Time |
| NN | Reserved | P |

| n | | |
|----------|--------|-----------|
| Code | Rating | Lead Time |
| NN | None | P |

| o | | |
|------------------------------|-----------------------------------|-----------|
| Options (as required) | | |
| Code | Description | Lead Time |
| ND | Normal Duty | P |
| HD | Heavy Duty | P |
| B0 | No Bypass | P |
| B2/B52✳ | Automatic Bypass | P |
| B5/B55✳ | Manual Bypass | P |
| C1 | Drive Only Control Power | P |
| C5 | Customer Supplied Control Power | P |
| J1 | Control Power On Aux. Contact | P |
| J2 | Drive Fault Auxiliary Contact | P |
| J3 | Alarm Auxiliary Contact | P |
| J4 | Drive Run Auxiliary Contact | P |
| J5 | At Speed Auxiliary Contact | P |
| J8/J58✳ | Motor Heater Control | P |
| L1 | 3% Input Line Reactor | P |
| L2 | 3% Output Line Reactor | P |
| L6, L7, L8 | Input Filter | X |
| M3 | Drive/Bypass Motor Run Time Meter | P |
| N1 | Iso. Analog Input - 0-10V dc | P |
| N2 | Iso. Analog Input - 4-20 mA | P |
| N3 | Iso. Analog Output - 0-10V dc | P |

| | | |
|----------|---|---|
| N5 | Building Management Control Interface | P |
| P1 | No Input Protection | P |
| P2 | Drive Input Fuses | P |
| P3 | Drive Breaker | P |
| P4 | Drive Bypass Mode Breaker | P |
| P6 | Drive Disconnect Switch, Fused | P |
| P7 | Drive Bypass Mode, Fused Disconnect | P |
| P11 | Drive Input Contactor | P |
| P12 | Drive Output Contactor | P |
| S1/S51* | Hand/Off/Auto S.S. (Start/Stop/Speed Ref) | P |
| S9/S59* | Run PL | P |
| S10/S60* | Drive Fault PL | P |
| S11/S61* | At Speed PL | P |
| S12/S62* | Drive Alarm PL | P |
| S13/S63* | Control Power On PL | P |
| S14/S64* | Drive Mode P.I. & Bypass Mode PL | P |
| S15/S65* | Bypass Mode PL & Auto Bypass Enable PL | P |
| S16/S66* | Drive Disable Mushroom PB | P |
| S17/S67* | Motor Fault PL | P |
| S18/S68* | Analog Potentiometer | P |

* Denotes 800F/800T device. When selecting multiple options, Do Not combine 800F and 800T devices (all devices must be the sa

Catalog Configured Drives Program

How to Order a Catalog Configured Drive

- **Step 1.** Select the basic PowerFlex 70 drive catalog number based on application requirements (i.e. nominal H cycle).
- **Step 2.** Specify Options - The following pages list and describe the available options. The listing is divided into assist in quickly locating specific needs. Some options are horsepower and/or voltage specific, or will have spe them - Read all footnotes.

Example: An application requires a variable speed control for an existing 3 Hp, 480V, normal duty, AC conveyor motc will be located in a clean environment. Local control is required on the door for programming, start, stop, speed and across the line (with selection and mode indication at drive) is required. A system disconnect switch should be availal required.

| Description | Cat. No./Option Code | Position |
|--|----------------------|----------|
| Basic Drive w/IP 20 (NEMA/UL Type 1 Enclosure) | 21AD5P0A | 1...8 |
| Human Interface Module - LCD (Drive Mounted) | 3 | 9 |
| User Manual | A | 10 |
| w/Brake IGBT | Y | 11 |
| No Brake Resistor | N | 12 |
| Not Filtered | N | 13 |
| No Communication Module | N | 14 |
| 115V Enhanced Control | D | 15 |

| | | |
|--|------|---------|
| No Feedback Option | 0 | 16 |
| Reserved for Future Options | NN | 17...18 |
| Special Options | NN | 19...20 |
| Normal Duty | -ND | 22...23 |
| Bypass, Manual with D/O/B Switch | -B5 | |
| Control Power | -C1 | |
| Drive/Bypass Fused Disconnect Switch | -P7 | |
| Drive & Bypass Mode Pilot Lights | -S14 | |
| "Drive Disable" Pushbutton | -S16 | |
| 21AD5P0ACAYNNND0NNNN-ND-B5-C1-P7-S14-S16 | | |

Product Selection

[Build a Catalog Number](#)

208...240V ac, Three-Phase Drives

| Output Amps | | | Nominal Power Ratings | | | | Frame Size | IP20, NEMA/UL Type 1 | IP65, NEMA/UL Type 4 Indoor | IP65, NEMA/UL Typ 4 Outdoor |
|---------------------|--------|--------|-----------------------|-----|------------|------|------------|----------------------|-----------------------------|-----------------------------|
| 208...240V ac Input | | | Normal Duty | | Heavy Duty | | | Cat. No. | Cat. No. | Cat. No. |
| Cont. | 1 Min. | 3 Sec. | kW | Hp | kW | Hp | | 21A... ★ | 21A... ★ | 21A... ★ |
| 0.9 | 1.0 | 1.4 | 0.37 | 0.5 | 0.25 | 0.33 | A | B2P2A | B2P2D | B2P2E |
| 1.7 | 1.9 | 2.6 | 0.75 | 1.0 | 0.55 | 0.75 | A | B4P2A | B4P2D | B4P2E |
| 2.7 | 3.6 | 4.8 | 1.5 | 2.0 | 1.1 | 1.0 | B | B6P8A | B6P8D | B6P8E |
| 3.9 | 4.3 | 5.8 | 2.2 | 3.0 | 1.5 | 1.5 | B | B9P6A | B9P6D | B9P6E |
| 6.1 | 6.7 | 9.1 | 4.0 | 5.0 | 3.0 | 3.0 | C | B015A | B015D | B015E |
| 9.0 | 9.9 | 13.5 | 5.5 | 7.5 | 4.0 | 5.0 | D | B022A | B022D | B022E |
| 11 | 13.5 | 18 | 7.5 | 10 | 5.5 | 7.5 | D | B028A | B028D | B028E |
| 17 | 18.7 | 25.5 | 11 | 15 | 7.5 | 10 | D | B042A | B042D | B042E |
| 22 | 25.5 | 34 | 15 | 20 | 11 | 15 | E | B054A | B054D | B054E |
| 27 | 33 | 44 | 18.5 | 25 | 15 | 20 | E | B070A | B070D | B070E |

* For 208V replace Code B with Code X. B2P2A = 240V and X2P2A = 208V

480V ac, Three-Phase Drives

| Output Amps | | | Nominal Power Ratings | | | | Frame Size | IP20, NEMA/UL Type 1 | IP65, NEMA/UL Type 4 Indoor | IP65, NEMA/UL Typ 4 Outdoor |
|---------------|--------|--------|-----------------------|-----|------------|------|------------|----------------------|-----------------------------|-----------------------------|
| 480V ac Input | | | Normal Duty | | Heavy Duty | | | Cat. No. | Cat. No. | Cat. No. |
| Cont. | 1 Min. | 3 Sec. | kW | Hp | kW | Hp | | 21A... | 21A... | 21A... |
| 1.1 | 1.2 | 1.6 | 0.37 | 0.5 | 0.25 | 0.33 | A | D1P1A | D1P1D | D1P1E |
| 2.1 | 2.4 | 3.2 | 0.75 | 1.0 | 0.55 | 0.75 | A | D2P1A | D2P1D | D2P1E |
| 3.4 | 4.5 | 6.0 | 1.5 | 2.0 | 1.1 | 1.5 | A | D3P4A | D3P4D | D3P4E |
| 5.0 | 5.5 | 7.5 | 2.2 | 3.0 | 1.5 | 2.0 | B | D5P0A | D5P0D | D5P0E |

| | | | | | | | | | | |
|-----|------|------|------|-----|------|-----|---|-------|-------|-------|
| 8.0 | 8.8 | 12 | 4.0 | 5.0 | 3.0 | 3.0 | B | D8P0A | D8P0D | D8P0E |
| 11 | 12.1 | 16.5 | 5.5 | 7.5 | 4.0 | 5.0 | C | D011A | D011D | D011E |
| 14 | 16.5 | 22 | 7.5 | 10 | 5.5 | 7.5 | C | D014A | D014D | D014E |
| 22 | 24.2 | 33 | 11 | 15 | 7.5 | 10 | D | D022A | D022D | D022E |
| 27 | 33 | 44 | 15 | 20 | 11 | 15 | D | D027A | D027D | D027E |
| 34 | 40.5 | 54 | 18.5 | 25 | 15 | 20 | D | D034A | D034D | D034E |
| 40 | 51 | 68 | 22 | 30 | 18.5 | 25 | D | D040A | D040D | D040E |
| 52 | 60 | 80 | 30 | 40 | 22 | 30 | E | D052A | D052D | D052E |
| 65 | 78 | 104 | 37 | 50 | 30 | 40 | E | D065A | D065D | D065E |

600V ac, Three-Phase Drives

| Output Amps | | | Nominal Power Ratings | | | | Frame Size | IP20, NEMA/UL Type 1 | IP65, NEMA/UL Type 4 Indoor | IP65, NEMA/UL Typ 4 Outdoor |
|---------------|--------|--------|-----------------------|-----|------------|------|------------|----------------------|-----------------------------|-----------------------------|
| 600V ac Input | | | Normal Duty | | Heavy Duty | | | Cat. No. | Cat. No. | Cat. No. |
| Cont. | 1 Min. | 3 Sec. | kW | Hp | kW | Hp | | 21A... | 21A... | 21A... |
| 0.9 | 1.0 | 1.4 | 0.37 | 0.5 | 0.25 | 0.33 | A | E0P9A | E0P9D | E0P9E |
| 1.7 | 1.9 | 2.6 | 0.75 | 1.0 | 0.55 | 0.75 | A | E1P7A | E1P7D | E1P7E |
| 2.7 | 3.6 | 4.8 | 1.5 | 2.0 | 1.1 | 1.0 | A | E2P7A | E2P7D | E2P7E |
| 3.9 | 4.3 | 5.8 | 2.2 | 3.0 | 1.5 | 1.5 | B | E3P9A | E3P9D | E3P9E |
| 6.1 | 6.7 | 9.1 | 4.0 | 5.0 | 3.0 | 3.0 | B | E6P1A | E6P1D | E6P1E |
| 9.0 | 9.9 | 13.5 | 5.5 | 7.5 | 4.0 | 5.0 | C | E9P0A | E9P0D | E9P0E |
| 11 | 13.5 | 18 | 7.5 | 10 | 5.5 | 7.5 | C | E011A | E011D | E011E |
| 17 | 18.7 | 25.5 | 11 | 15 | 7.5 | 10 | D | E017A | E017D | E017E |
| 22 | 25.5 | 34 | 15 | 20 | 11 | 15 | D | E022A | E022D | E022E |
| 27 | 33 | 44 | 18.5 | 25 | 15 | 20 | D | E027A | E027D | E027E |
| 32 | 40.5 | 54 | 22 | 30 | 18.5 | 25 | D | E032A | E032D | E032E |
| 41 | 48 | 64 | 30 | 40 | 22 | 30 | E | E041A | E041D | E041E |
| 52 | 61.5 | 82 | 37 | 50 | 30 | 40 | E | E052A | E052D | E052E |

Factory Installed Options

Human Interface Modules (HIM) - Position e



Catalog Code: 0
Drive Mounted Blank Cover
No HIM



Catalog Code: 2
Drive Mounted LCD Digital Speed



Catalog Code: 3
Drive Mounted LCD Full
Numeric



Catalog Code: C
Door Mounted Beze
Full Numeric (NEM.



Catalog Code: L
Door Mounted Bezel
w/Blank Cover (NEMA/UL
Type 1)



Catalog Code: 5
Drive Mounted LCD Programmer
Only



Catalog Code: J
Door Mounted LCD Full Numeric
(NEMA/UL Type 12) *



Catalog Code: K
Door Mounted Prog
Only (NEMA/UL Type 12)



Catalog Code: A
Drive Mounted LCD Full
Numeric &
Door Mounted Bezel w/Blank
Cover
(NEMA/UL Type 1)



Catalog Code: B
Drive Mounted LCD Full Numeric & Door Mounted
Bezel w/LCD Digital Speed (NEMA/UL Type 1)



Catalog Code: E
Drive Mounted LCD Full Numeric
& Door Mounted Bezel w/LCD
Programmer Only (NEMA/UL Type 1)



Catalog Code: F
Drive Mounted LCD
LCD Full Numeric (NEMA/UL Type 12)



Catalog Code: G
Drive Mounted LCD Full
Numeric
& Door Mounted Programmer
Only (NEMA/UL Type 12) *



* NEMA/UL Type 12 HIMs can be substituted for NEMA/UL Type 1 to eliminate the removable HIM feature.

Documentation

| Description | Cat. Code | Lead Time |
|------------------------|--------------|-----------|
| | (Position f) | |
| User Manual (Standard) | A | P |

Internal Brake IGBT

| Frame | Cat. Code | Lead Time |
|-------|--------------|-----------|
| | (Position g) | |
| A...E | Y | P |

Small Duty Internal Dynamic Brake Resistors

These resistors have a limited duty cycle. Refer to the PowerFlex Dynamic Braking Selection Guide to determine if an sufficient for your application. An external resistor may be required. See [Small Duty Internal Dynamic Brake Resistors](#)

| Drive Input Voltage | Frame | Brake Resistance | Cat. Code | Lead Time |
|---------------------|-------|------------------|--------------|-----------|
| | | Ω | (Position h) | |
| 208/240V ac | A...E | - | N | P |
| | A | 62 | Y | P |
| | B | 62 | Y | P |
| | C | 62 | Y | P |
| | D | 22 | Y | P |
| | E | Not Available | N | P |
| 480V ac | A...E | - | N | P |
| | A | 115 | Y | P |
| | B | 115 | Y | P |
| | C | 115 | Y | P |
| | D | 62 | Y | P |
| | E | Not Available | N | P |
| 600V ac | A...E | - | N | P |
| | A | 115 | Y | P |
| | B | 115 | Y | P |
| | C | 115 | Y | P |
| | D & E | Not Available | N | P |

Internal EMC Filter S

| Drive Input Voltage | Frame | CE Filter | Cat. Code |
|---------------------|-------|---------------|--------------|
| | | | (Position i) |
| 208/240V ac | A | No | N |
| | B | No | N |
| | | Yes | A |
| | C | Yes | A |
| | D | Yes | A |
| | E | Yes | A |
| 480V ac | A | No | N |
| | B | No | N |
| | | Yes | A |
| | C | Yes | A |
| | D | Yes | A |
| | E | Yes | A |
| 600V ac | A...D | Not Available | N |
| | E | Yes | A |

§ Internal CE filters are not available for PowerFlex 70 Frame A drives. If a Frame A rating is ordered with an internal filter option Frame B.

‡ Lead Time = X for 208V ac.

Internal Communication Adapters

| Description | Cat. Code | Lead Time |
|--|--------------|-----------|
| | (Position j) | |
| BACnet® MS/TP RS-485 Communication Adapter | B | P |
| ControlNet™ Communication Adapter (Coax) | C | P |
| DeviceNet™ Communication Adapter | D | P |
| EtherNet/IP™ Communication Adapter | E | P |
| HVAC Communication Adapter | H | P |
| Interbus™ Communication Adapter | I | P |
| LonWorks™ Communication Adapter | L | P |
| None | N | P |
| PROFIBUS™ DP Communication Adapter | P | P |
| ControlNet Communication Adapter (Fiber) | Q | P |
| Remote I/O Communication Adapter | R | P |
| RS-485 DF1 Communication Adapter | S | P |

I/O Options

| Description (One Required) | Cat. Code | Lead Time |
|----------------------------|--------------|-----------|
| | (Position k) | |
| Enhanced 24V dc ★ ✱ | C | P |
| Enhanced 115V ac ★ ✱ ♣ | D | P |

★ Drive input interface only. Other configured options may require option -C1 or -C5, user supplied 115V.

✱ Enhanced Control option utilizes DPI Only.

♣ 115V control uses 24V I/O plus 115V Interface Card.

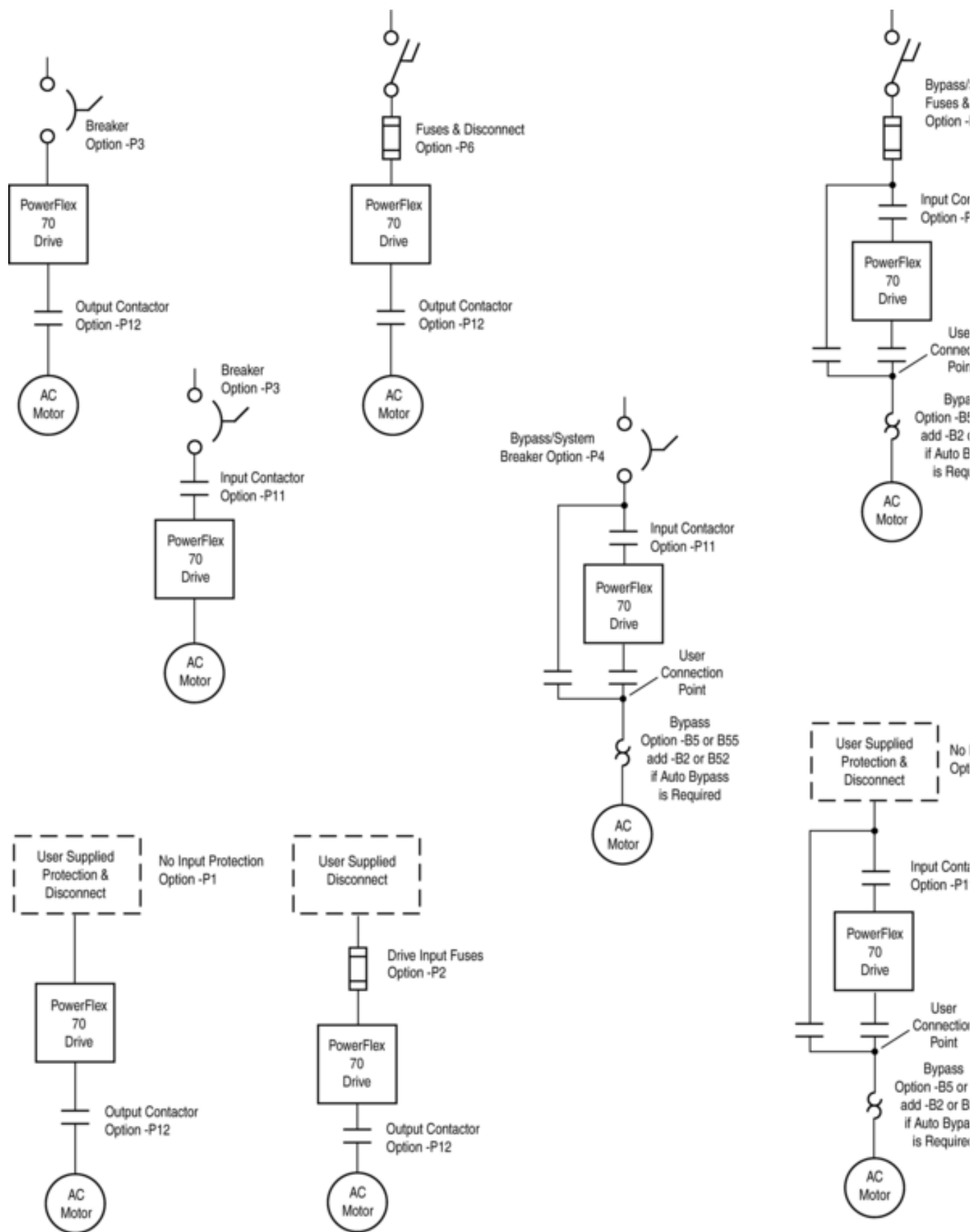
Feedback Options (Enhanced Control Only)

| Description (One Required) | Cat. Code | Lead Time |
|----------------------------|--------------|-----------|
| | (Position l) | |
| No Encoder | 0 (Std) | P |
| Encoder Feedback | 1 | P |

Reserved/Special Options

| Description (One Required) | Cat. Code | | Lead Time |
|----------------------------|--------------|--------------|-----------|
| | (Position m) | (Position n) | |
| No Special Option | NN | NN | P |

Suggested Power Distribution Schemes



Power Disconnecting Means

Important: Customer must select one of the following; -P1, P2, P3, P4, P6 or -P7. If option -P1 is selected, power distribution branch circuit protection must be supplied by user.

| Description | Option Code | Lead Time |
|--------------------------------------|-------------|-----------|
| No Input Protection | -P1 | P ‡ |
| Drive Input Fuses | -P2 * | P ‡ |
| Drive Breaker | -P3 * | P ‡ |
| Drive Bypass Mode, Breaker | -P4 ✱ | P ‡ |
| Drive Disconnect Switch, Fuses | -P6 * | P ‡ |
| Drive Bypass Mode, Fuses, Disconnect | -P7 ✱ | P ‡ |

* This option can not be used with Bypass.

✱ This option must be used in conjunction with a Bypass Option.

‡ Lead Time = X for 208V ac.

Power and Bypass Options

| Description | Option Code | Lead Time |
|-------------------------|---------------|-----------|
| Contactor, Drive Input | -P11 * ♣ | P ‡ |
| Contactor, Drive Output | -P12 * ✱ ♣ | P ‡ |
| No Bypass Required | -B0 ➤ | P ‡ |
| Manual Bypass | -B5/B55 ♣ ➤ ✱ | P ‡ |
| Automatic Bypass | -B2/B52 § ✱ | P ‡ |

* An output contactor may not be chosen when Bypass is selected.

✱ This option must be used in conjunction with the Auxiliary Fault Contact option -J2.

‡ Lead Time = X for 208V ac.

§ Option includes "Drive-Off-Bypass" selector switch and must be used in conjunction with the Auxiliary Fault Contact option (-J2).

♣ Requires option -C1 or user supplied 115V (option -C5).

➤ B0 or B5 must be selected.

✱ Includes a Class 10 Adjustable Thermal Overload Relay that does not require separate heater elements.

Control Power, 3% Line Reactor and Harmonic Filter Options

| Description | Option Code | Lead Time |
|---|---------------|-----------|
| 115V Control Power, Drive/Options Only | -C1 * | P ‡ |
| 115V Control Power, User Supplied | -C5 * | P ‡ |
| 3% Input Line Reactor Mounted in Enclosure | -L1 | P ‡ |
| 3% Output Line Reactor Mounted in Enclosure | -L2 | P ‡ |
| Input Filter | -L6, L7, L8 ✱ | X |

* C1 or C5 must be selected.

✱ 480V ac Only. These options will increase enclosure size. Consult factory for details.

‡ Lead Time = X for 208V ac.

Descriptions for L6, L7 & L8 follow, note that these options will increase enclosure size. Consult factory for details.

- L6 Harmonic Filter - This option is used to reduce harmonic current and voltage distortion at the AC line. This option ensures compliance with the harmonic distortion limits and requirements set forth in IEEE519-1992. Sometimes known

consists of a tuned LC (inductor capacitor) network and buffering reactor employed as an integral harmonic in harmonic distortion is very dependent on system parameters. Typical voltage distortion limits will be less than distortion varying based on the system source impedance.

- L7 Harmonic Filter with Capacitor Contactor - In addition to the L6 option, the L7 option includes a dropout co tuned LC network portion of the filter when the drive is not running (input line reactor portion of the filter will Disengaging the LC network will reduce or eliminate leading power factor conditions that might exist under low feature is especially useful on larger drive filter installations.
- L8 Harmonic Filter with Adjustable Capacitor Contactor - In addition to the L6 option, the L8 option includes a disengage the tuned LC network portion of the filter when the drive is running at a lightly loaded condition (in the filter will still be in place). Disengaging the LC network will reduce or eliminate leading power factor conditions under low power operation. This feature allows adjustment of the drop out point to be adjusted between approximately the input current with a small hysteresis band of about 5% to prevent contactor chatter. This option is especially filter installations and is recommended for use on back up generator installations.

Technical Information for Thermal Overload Relays

Class 10 (Bulletin 193-T) Relays:

- Will trip in 10 seconds or less at 600% of device current rating.
- Trip setting is adjustable per the range chart shown.
- Range is chosen to cover the NEC motor circuit for the horsepower selected.
- If a motor outside the published adjustability range is to be used - enter customer order and provide complete

208...240V AC, Three-Phase Drives

| Drive Rating ND Hp | Drive Rating HD Hp | Class 10 Adjustable Thermal Overload Relay | | |
|--------------------|--------------------|--|-----------|------------|
| | | Adjustable Range (Amps) | | |
| | | Normal Duty | | Heavy Duty |
| | | 208V | 240V | 208/240V |
| 0.5 | 0.33 | 2.4...4.0 | 1.6...2.4 | 1.6...2.4 |
| 1.0 | 0.75 | 4.0...6.0 | 4.0...6.0 | 2.4...4.0 |
| 2.0 | 1.5 | 6.0...10 | 6.0...10 | 4.0...6.0 |
| 3.0 | 2.0 | 10...16 | 10...16 | 6.0...10 |
| 5.0 | 3.0 | 16...24 | 16...24 | 6.0...10 |
| 7.5 | 5.0 | 18...30 | 18...30 | 10...16 |
| 10 | 7.5 | 30...45 | 30...45 | 18...30 |
| 15 | 10 | 30...45 | 30...45 | 18...30 |
| 20 | 15 | 45...60 | 45...60 | 30...45 |
| 25 | 20 | 60...75 | 60...75 | 45...60 |

480V AC, Three-Phase Drives

| Drive Rating ND Hp | Drive Rating HD Hp | Class 10 Adjustable Thermal Overload Relay | |
|--------------------|--------------------|--|------------|
| | | Adjustable Range (Amps) | |
| | | Normal Duty | Heavy Duty |
| | | | |
| 0.5 | 0.33 | 1.0...1.6 | 0.6...1.0 |
| 1.0 | 0.75 | 1.6...2.4 | 1.6...2.4 |
| 2.0 | 1.5 | 2.4...4.0 | 2.4...4.0 |
| 3.0 | 2.0 | 4.0...6.0 | 2.4...4.0 |

| | | | |
|-----|-----|----------|-----------|
| 5.0 | 3.0 | 6.0...10 | 4.0...6.0 |
| 7.5 | 5.0 | 10...16 | 6.0...10 |
| 10 | 7.5 | 10...16 | 10...16 |
| 15 | 10 | 16...24 | 10...16 |
| 20 | 15 | 18...30 | 18...30 |
| 25 | 20 | 30...45 | 18...30 |
| 30 | 25 | 30...45 | 30...45 |
| 40 | 30 | 45...60 | 30...45 |
| 50 | 40 | 60...75 | 45...60 |

600V AC, Three-Phase Drives

| Drive Rating ND Hp | Drive Rating HD Hp | Class 10 Adjustable Thermal Overload Relay | |
|--------------------|--------------------|--|------------|
| | | Adjustable Range (Amps) | |
| | | Normal Duty | Heavy Duty |
| 0.5 | 0.33 | 1.6...2.4 | 1.0...1.6 |
| 1.0 | 0.75 | 1.6...2.4 | 1.0...1.6 |
| 2.0 | 1.5 | 2.4...4.0 | 1.6...2.4 |
| 3.0 | 2.0 | 2.4...4.0 | 2.4...4.0 |
| 5.0 | 3.0 | 6.0...10 | 4.0...6.0 |
| 7.5 | 5.0 | 6.0...10 | 6.0...10 |
| 10 | 7.5 | 10...16 | 10...16 |
| 15 | 10 | 16...24 | 16...24 |
| 20 | 15 | 16...24 | 16...24 |
| 25 | 20 | 16...24 | 16...24 |
| 30 | 25 | 30...45 | 16...24 |
| 40 | 30 | 30...45 | 30...45 |
| 50 | 40 | 45...60 | 30...45 |

Control Interface & Feedback Options

| Description | Option Code | Lead Time |
|---|-------------|-----------|
| Analog Inputs/Outputs | | |
| Isolated Analog Input, 0-10V dc | -N1 ☼ | P |
| Isolated Analog Input, 4-20 mA | -N2 ☼ | P |
| Isolated Analog Output, 0-10V dc | -N3 ☼ | P |
| Control Relay Option | | |
| Control Power On | -J1 ☼ | P |
| Auxiliary Contacts, (2) Form C 2-N.O., 2-N.C. ★ | | |
| Drive Fault | -J2 ☼ | P |
| Alarm | -J3 ☼ | P |
| Drive Run | -J4 ☼ | P |
| At Speed | -J5 ☼ | P |
| Programmable Relay A | -J6 ☼ | P |
| Programmable Relay B | -J7 ☼ | P |

| | | |
|---------------------------------------|-------|---|
| Building Management Control Interface | -N5 ✱ | P |
|---------------------------------------|-------|---|

✱ Maximum of two drive digital options can be selected.

NOTE: S9 + J4 = One Digital Output

S10 + J2 = One Digital Output

S11 + J5 = One Digital Output

S12 + J3 = One Digital Output

All other combinations = One Digital Output.

✱ This requires option -C1 or user supplied 115V (option -C5).

Motor Interface Options

| Description | Option Code ‡ | Lead Time |
|----------------------|---------------|-----------|
| Motor Heater Control | -J8/J58 ‡ | P |

‡ Requires user supplied control power.

‡ 800F/800T device. When selecting multiple options, Do Not combine 800F and 800T devices (all devices must be the same type).

Operator Devices - Door Mounted

| Description | Option Code ‡ | Lead Time |
|------------------------------------|---------------|-----------|
| H/O/A S.S. (Start/Stop/Spd. Ref.) | -S1/S51 ⌘ | P |
| Run Pilot Light | -S9/S59 ✱ ✱ | P |
| Drive Fault Pilot Light | -S10/S60 ✱ ✱ | P |
| At Speed Pilot Light | -S11/S61 ✱ ✱ | P |
| Drive Alarm Pilot Light | -S12/S62 ✱ ✱ | P |
| Control Power On Pilot Light | -S13/S63 ✱ | P |
| Drive & Bypass Mode Pilot Lights | -S14/S64 ✱ ♣ | P |
| Bypass Mode & Auto Bypass En. P.L. | -S15/S65 ✱ ➤ | P |
| Drive Disable Mushroom P.B. | -S16/S66 ⌘ | P |
| Motor Fault Pilot Light | -S17/S67 ✱ ♣ | P |
| Analog Potentiometer | -S18/S68 + | P |

✱ Maximum of two drive digital options can be selected.

NOTE: S9 + J4 = One Digital Output

S10 + J2 = One Digital Output

S11 + J5 = One Digital Output

S12 + J3 = One Digital Output

All other combinations = One Digital Output.

✱ This requires option -C1 or user supplied 115V (option -C5).

‡ 800F/800T device. When selecting multiple options, Do Not combine 800F and 800T devices (all devices must be the same type).

♣ Option available when -B5/B55 is selected.

➤ Option available when -B2/B52 is selected.

⌘ Requires option -C1 or -C5 if 115V ac interface is selected.

+ Cannot be used with -N1 or -N3 options.



Meters - Door Mounted

| Description | Option Code | Lead Time |
|--|-------------|-----------|
| Drive/Bypass Motor Run Time Meter (Elapsed Hours) Non-Resettable | -M3 ✱ | P |

✱ This requires option -C1 or user supplied 115V (option -C5).

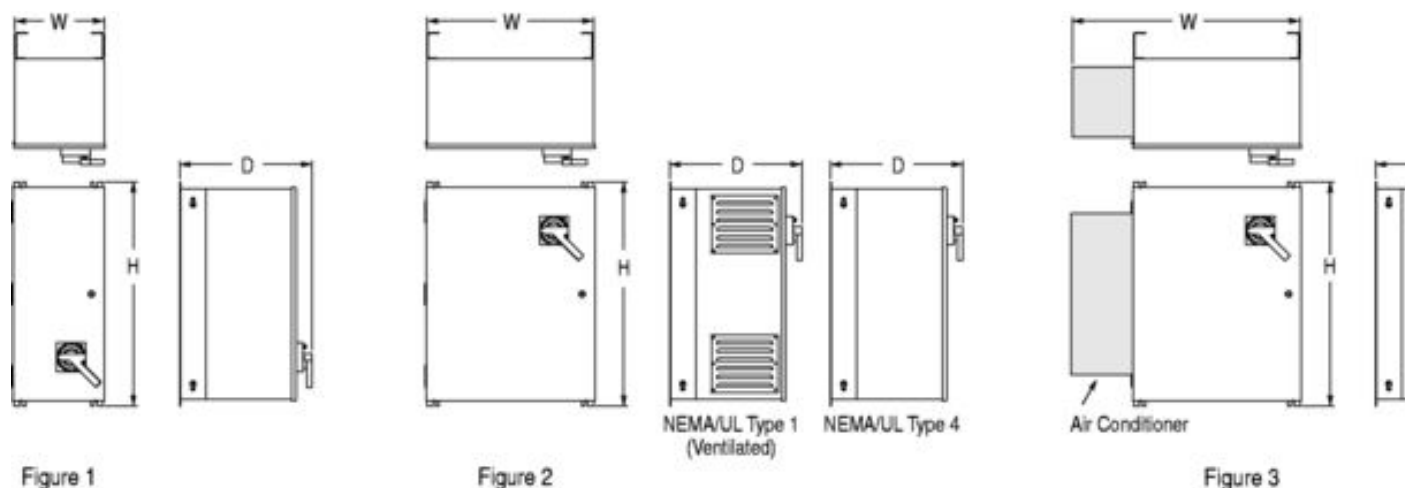
Codes and Standards

| Code/Standard | Action |
|---|---|
| CE + (European Conformance Standard) | Consult the factory with requirements to meet the separate Low Voltage and/or EMC direc |

| | | |
|---|---|---|
| |  | |
| IEEE519 † (Harmonic Distortion Levels) | | Provide a one-line power distribution drawing, and the associated specification to the fact |
| UL, c-UL |  | This program provides UL panel recognition from the factory as standard. |

† Modified Configured Drives Program Only

Enclosures



Maximum Enclosure Dimensions

| Ratings | | Drive Frame Size | Power Flex 70 Flange Drive Cat. No. | Enclosure Style for Flange Mounted Drives | | | | | | | | | | | | | |
|----------|----------|------------------------|---|--|-------|-------------|-------|--|-------|-------------------------------------|-------|--|-------|---|-------|-------------------------------------|-------|
| ND Hp | HD Hp | | | NEMA/UL Type 1, Option Code A | | | | NEMA/UL Type 12 & 4 Indoor, Option Code D/G | | | | NEMA/UL Type 4 Outdoor, Option Code E | | | | | |
| | | | | B0, C1, C5, S1/S51, S9/S59... S13/S63, S16/S66, P1...P3 or P6, Drive Mounted Options & All HIMs | | All Options | | B0, C1, C5, S1/S51, S9/S59... S13/S63, S16/S66, P1...P3 or P6, Drive Mounted Options & All HIMs | | All options Less Line Reactor | | All Options | | B0, C1, C5, S1/S51, S9/S59... S13/S63, S16/S66, P1...P3 or P6 & Drive Mounted Options & All HIMs | | All Options Less Line Reactor | |
| | | | | Figure | Style | Figure | Style | Figure | Style | Figure | Style | Figure | Style | Figure | Style | Figure | Style |

230V ac, Three-Phase Drives

| | | | | | | | | | | | | | | | | |
|-----|------|---|------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.5 | 0.33 | A | B2P2 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 2 |
| 1.0 | 0.75 | A | B4P2 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 2 |
| 2.0 | 1.5 | B | B6P8 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 3.0 | 2.0 | B | B9P6 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 5.0 | 3.0 | C | B015 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 7.5 | 5.0 | D | B022 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 4 | 1 | 1 | 2 |

| | | | | | | | | | | | | | | | | |
|----|-----|---|------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 7.5 | D | B028 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | 1 | 2 |
| 15 | 10 | D | B042 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | 1 | 2 |
| 20 | 15 | E | B054 | 1 | 2 | 2 | 6 | 1 | 2 | 2 | 6 | 2 | 6 | 1 | 2 | 2 |
| 25 | 20 | E | B070 | 1 | 2 | 2 | 6 | 1 | 2 | 2 | 6 | 2 | 6 | 1 | 2 | 2 |

480V ac, Three-Phase Drives

| | | | | | | | | | | | | | | | | |
|-----|------|---|------|---|---|---|---|---|---|---|---|---|-------------|---|---|---|
| 0.5 | 0.33 | A | D1P1 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 2 |
| 1.0 | 0.75 | A | D2P1 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 2 |
| 2.0 | 1.5 | A | D3P4 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 2 |
| 3.0 | 2.0 | B | D5P0 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 5.0 | 3.0 | B | D8P0 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 7.5 | 5.0 | C | D011 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 10 | 7.5 | C | D014 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 15 | 10 | D | D022 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | 1 | 2 |
| 20 | 15 | D | D027 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | 1 | 2 |
| 25 | 20 | D | D034 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | 1 | 2 |
| 30 | 25 | D | D040 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | 1 | 2 |
| 40 | 30 | E | D052 | 1 | 2 | 2 | 6 | 1 | 2 | 2 | 6 | 2 | 6 or 7 ★ | 1 | 2 | 2 |
| 50 | 40 | E | D065 | 1 | 2 | 2 | 6 | 1 | 2 | 2 | 6 | 2 | 6 or 7 ★ | 1 | 2 | 2 |

600V ac, Three-Phase Drives

| | | | | | | | | | | | | | | | | |
|-----|------|---|------|---|---|---|---|---|---|---|---|---|-------------|---|---|---|
| 0.5 | 0.33 | A | E0P9 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 2 |
| 1.0 | 0.75 | A | E1P7 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 2 |
| 2.0 | 1.5 | A | E2P7 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 2 |
| 3.0 | 2.0 | B | E3P9 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 5.0 | 3.0 | B | E6P1 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 7.5 | 5.0 | C | E9P0 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 10 | 7.5 | C | E011 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 1 | 2 |
| 15 | 10 | D | E017 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 4 | 1 | 1 | 2 |
| 20 | 15 | D | E022 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | 1 | 2 |
| 25 | 20 | D | E027 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | 1 | 2 |
| 30 | 25 | D | E032 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | 1 | 2 |
| 40 | 30 | E | E041 | 1 | 2 | 2 | 6 | 1 | 2 | 2 | 6 | 2 | 6 | 1 | 2 | 2 |
| 50 | 40 | E | E052 | 1 | 2 | 2 | 6 | 1 | 2 | 2 | 6 | 2 | 6 or 7 ★ | 1 | 2 | 2 |

★ x or x denotes Figure/Style with one line reactor "or" Figure/Style with two line reactors. For Example: "2 or 3" denotes Figure 2 reactor is selected and Figure 3, Style 8 when two line reactors are selected.

Enclosure Dimensions

| Figure | Style | Enclosure Rating | Option Code | Dimensions ☼ |
|--------|-------|------------------|-------------|--------------|
|--------|-------|------------------|-------------|--------------|

| | | | (Position d) | H x W x D (mm) | H |
|---|---|--|--------------|-------------------------|----|
| 1 | 1 | NEMA/UL Type 1 | A | 812.8 x 330.2 x 484.1 | 32 |
| 1 | 2 | NEMA/UL Type 1 | A | 1,270.0 x 406.4 x 484.1 | 50 |
| 2 | 3 | NEMA/UL Type 1 | A | 812.8 x 609.6 x 484.1 | 32 |
| 2 | 4 | NEMA/UL Type 1 | A | 965.2 x 609.6 x 484.1 | 38 |
| 2 | 6 | NEMA/UL Type 1 | A | 1,270.0 x 762.0 x 484.1 | 50 |
| 1 | 1 | NEMA/UL Type 4/12 for Indoor use, NEMA/UL Type 4 for Outdoor use | D or E | 812.8 x 330.2 x 484.1 | 32 |
| 1 | 2 | NEMA/UL Type 4/12 for Indoor use, NEMA/UL Type 4 for Outdoor use | D or E | 1,270.0 x 406.4 x 484.1 | 50 |
| 2 | 3 | NEMA/UL Type 4/12 for Indoor use, NEMA/UL Type 4 for Outdoor use | D or E | 812.8 x 609.6 x 484.1 | 32 |
| 2 | 4 | NEMA/UL Type 4/12 for Indoor use, NEMA/UL Type 4 for Outdoor use | D or E | 965.2 x 609.6 x 484.1 | 38 |
| 2 | 5 | NEMA/UL Type 4/12 for Indoor use, NEMA/UL Type 4 for Outdoor use | D or E | 1,270.0 x 609.6 x 484.1 | 50 |
| 2 | 6 | NEMA/UL Type 4/12 for Indoor use, NEMA/UL Type 4 for Outdoor use | D or E | 1,270.0 x 762.0 x 484.1 | 50 |
| 2 | 7 | NEMA/UL Type 4/12 for Indoor use, NEMA/UL Type 4 for Outdoor use | D or E | 1,270.0 x 914.4 x 484.1 | 50 |
| 3 | 8 | NEMA/UL Type 4/12 for Indoor use, NEMA/UL Type 4 for Outdoor use | D or E | 812.8 x 831.9 x 484.1 | 50 |
| 3 | 9 | NEMA/UL Type 4/12 for Indoor use, NEMA/UL Type 4 for Outdoor use | D or E | 1,270.0 x 984.3 x 484.1 | 50 |

✱ Depth includes 6.35 mm (2.5 in) for Operator Handle when ordered. Options L6, L7 & L8 will increase enclosure size. Consult factory for details.

Drawing and Test Options (For Configured Drives Only)

| |
|--|
| Description – One Set of... |
| Manufacturing Drawings 279 x 432 mm (11 x 17 in.) One set of schematics – “Information Only - Manufacture Proceeding” Not to be used as Approval Drawings |
| Diskette |
| Electronic Drawings |
| Black & Whites |
| Vellums |
| Final Drawings (as shipped) 279 x 432 mm (11 x 17 in.) One set of schematics – “Copy of Drawings that Shipped with the Job” |
| Diskette |
| Electronic Drawings |
| Black & Whites |
| Vellums |
| Mylar |
| Test Report, Drive Only |
| |
| Modified Configured Drives Program Only |
| Approval Drawings 279 x 432 mm (11 x 17 in.) One set of schematics – “Manufacture Held Until Approved Prints are Received” |
| Diskette |
| Electronic Drawings |
| Black & Whites |
| Vellums |
| As Commissioned Drawings 279 x 432 mm (11 x 17 in.) One set of schematics – “Provided after Field Changes are Returned to the Factory” |

| |
|--|
| Black & Whites |
| Certified Motor Dimension Drawing |
| Disk Copy of "Final As Shipped" Schematics (Autocad 2000) |
| Basic Harmonic Analysis - Pre-order review of customer's one line power distribution diagram. |
| Complete Harmonic Analysis - Post-order detailed harmonic spectrum analysis and a written report. |
| Deluxe Harmonic Analysis - Post-order site verification of actual harmonics, detailed spectrum analysis and a detailed written report. |
| Witness Test, User Viewing of Rockwell Automation Standard Test Procedures |

‡ Includes viewing Rockwell Automation standard test only. Any special requirements must be reviewed by Rockwell Automation for price changes.

Option Selection Reference Guide

Required Options

- Normal Duty or Heavy Duty
- Power Input or Disconnecting Means
- Bypass or No Bypass
- Control Power or No Control Power when dependent options are selected

Note that option codes 51 and higher are 800T devices. These are not compatible with codes 19 and lower.

| Description | Must be Used with... | Cannot |
|---|---|--|
| Base Drive | Enclosure (A, D, E or G), HIM (0, 2, 3, 5, A...G & L...J), Brake IGBT (Y), Emission (A or N), Comm Option (C, D, E, H, I, L, P, Q, R, S or N), I/O Option (C or D), Feedback (0 or 1), ND or HD Option. Option C1 or C5, B1/B51 or B0 | |
| HIM Options (0, 2, 3, 5, A...G) (L...J) | | Only one 2, 3, 5, A Enclosure with HIM |
| Comm Options | | Only one can be se |
| I/O Options | | Only one |
| Feedback Options | Enhanced 24V dc or Enhanced 115V ac | Only one selected. |
| Enclosure Options D & E | | Any door J, K) |
| -B0 | -C1 or C5 | -B5/B55 |
| -B2 | -B5 & J2 | -B52...B55 |
| -B52 | -B55 & J2 | -B2...B5, S |
| -B5 | -C1 or C5 | -B0, P2, F |
| -B55 | -C1 or C5 | -B0, P2, F |
| -C1 | | -C5 |
| -C5 | | -C1 |
| -HD | Any base drive unless ND is selected | -ND |
| -J1 | | |
| -J2 | | Only 2 dri |
| | | |

| | | |
|------|--------------------------------------|-------------------------|
| -J3 | | Only 2 dri |
| -J4 | | Only 2 dri |
| -J5 | | Only 2 dri |
| -J8 | -J4 | -J58 |
| -J58 | -J4 | -J8 |
| -L1 | | -L6, L7, L |
| -L6 | | -L1 |
| -L7 | | -L1 |
| -L8 | | -L1 |
| -M3 | -J4 | |
| -N1 | | -S18/S68 |
| -N2 | | |
| -N3 | | -S18/S68 |
| -N5 | -S1/S51 | |
| -ND | Any base drive unless HD is selected | -HD |
| -P1 | -C1 or C5 | -P2, P3, F |
| -P2 | -B0, C1 or C5 | -P1, P3, F |
| -P3 | -B0, C1 or C5 | -P1, P2, F |
| -P4 | -B5/B55, C1 or C5 | -P1, P2, F |
| -P6 | -B0, C1 or C5 | -P1, P2, F |
| -P7 | -B5/B55, C1 or C5 | -P1, P2, F |
| -P11 | -C1 or C5 | |
| -P12 | -J2, C1 or C5 | -B5/B55 |
| -S1 | | -B52...B55 |
| -S9 | | Only 2 dri S51...S68 |
| -S10 | | Only 2 dri S51...S68 |
| -S11 | | Only 2 dri S51...S68 |
| -S12 | | Only 2 dri S51...S68 |
| -S13 | | -B52...B55 |
| -S14 | -B5 | -S15, B52 |
| -S15 | -B2 | -S14, B52 |
| -S16 | | -B52...B55 |
| -S17 | -B5 | -B52...B55 |
| -S18 | | -N1, N3, I |
| -S51 | | -B2...B5, S |
| -S59 | | Only 2 dri S1...S18 |
| -S60 | | Only 2 dri S1...S18 |
| -S61 | | Only 2 dri S1...S18 |
| -S62 | | Only 2 dri S1...S18 |
| | | |

| | | |
|------|-----|-------------|
| -S63 | | -B2...B5, S |
| -S64 | -B5 | -S65, -B2. |
| -S65 | -B2 | -S64, -B2. |
| -S66 | | -B2...B5, S |
| -S67 | -B5 | -B2...B5, S |
| -S68 | | -N1, N3, - |

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