

# PowerFlex<sup>®</sup> 4M AC Drive - Specifications

- **Drive Ratings:**
  - 100-120V, 1Ø, 0.2-1.1 kW (0.25-1.5 Hp)
  - 200-240V, 1Ø, 0.2-2.2 kW (0.25-3.0 Hp)
  - 200-240V, 3Ø, 0.2-7.5 kW (0.25-10 Hp)
  - 380-480V, 3Ø, 0.4-11.0 kW (0.50-15 Hp)
- **Motor Control**
  - V/Hz Motor Control
  - Slip Compensation
- **Ambient Temperature Limit for Enclosures**
  - IP 20/Open = -10° to 50°C (14° - 122°F)

- **Features**
  - Feed through wiring design
  - Drive overload protection
  - Ramp Regulation



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# PowerFlex<sup>®</sup> 4 AC Drive - Specifications

- **Drive Ratings:**
  - 100-120V, 1Ø, 0.2-1.1 kW (0.25-1.5 Hp)
  - 200-240V, 1Ø, 0.2-2.2 kW (0.25-3 Hp)
  - 200-240V, 3Ø, 0.2-3.7 kW (0.25-5 Hp)
  - 380-480V, 3Ø, 0.37-3.7 kW (0.5-5 Hp)
- **Motor Control**
  - V/Hz Motor Control
  - Slip Compensation
- **Ambient Temperature Limit for Enclosures**
  - Open Type / IP20 = -10° to 50° C (14° - 122°F) with specified distance between drives or
  - Open Type / IP20 = -10° to 40° C (14° - 104°F) Zero Stacked
  - NEMA/UL Type 1 / IP30 = -10° to 40° C (14° - 104°F) with optional conduit box kit

- **Features**

- Drive Overload Protection
- Ramp Regulation
- Flying Start



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# PowerFlex® 40 AC Drive - Specifications

- **Drive Ratings :**
  - 100-120V, 1Ø, 0.4-1.1 kW (0.5-1.5 Hp)
  - 200-240V, 1Ø, 0.4-2.2 kW (0.5-3 Hp)
  - 200-240V, 3Ø, 0.4-7.5 kW (0.5-10 Hp)
  - 380-480V, 3Ø, 0.4-11 kW (0.5-15 Hp)
  - 480-600V, 3Ø, 0.75-11 kW (1-15 Hp)
- **Motor Control**
  - V/Hz Motor Control
  - Sensorless Vector Control with Autotune Feature
  - Process PID
- **Ambient Temperature Limit for Enclosures**
  - Open Type / IP20 = -10° to 50° C (14° - 122°F) with specified distance between drives or
  - Open Type / IP20 = -10° to 40° C (14° - 104°F) Zero Stacked
  - NEMA/UL Type 1 / IP30 = -10° to 40° C (14° - 104°F) with optional conduit box kit
  - NEMA/UL Type 4X/12 / IP66 = -10° to 40° C (14° - 104° F)

- **Features**

- Drive Overload Protection
- Ramp Regulation
- PID Control
- StepLogic™
- Flying Start



PowerFlex 40 AC Drives  
NEMA/UL Type 4X/12  
Up through 5 Hp

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# PowerFlex® 40P AC Drive - Specifications

- **Drive Ratings :**
  - 200-240V, 3Ø, 0.4-7.5 kW (0.5-10 Hp)
  - 380-480V, 3Ø, 0.4-11 kW (0.5-15 Hp)
  - 480-600V, 3Ø, 0.75-11 kW (1-15 Hp)
- **Motor Control**
  - V/Hz Motor Control
  - Sensorless Vector Control with Autotune Feature
    - Slip Compensation or Encoder Trim
  - Process PID
  - Position Control Mode
- **Ambient Temperature Limit for Enclosures**
  - Open Type / IP20 = -10° to 50° C (14° - 122°F)
  - Plate drive for external Heatsink mounting up to IP66
  - NEMA/UL Type 1 / IP30 = -10° to 40° C (14° - 104°F) with optional conduit kit
- **Features**
  - Drive Overload Protection
  - Ramp Regulation
  - PID Control
  - StepLogic™
  - Flying Start
  - Encoder/Pulse Train Feedback
  - DriveGuard® Safe-off (optional)



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**DriveGuard®** 

# PowerFlex® 400 AC Drive - Specifications

- **Drive Ratings**
  - 200-240V, 2.2-37 kW (3-50 Hp)
  - 380-480V, 2.2-250 kW (3-350 Hp)
- **Motor Control**
  - V/Hz Motor Control
  - Slip Compensation
- **Ambient Temperature Limit for Enclosures**
  - IP30 / NEMA/UL Type 1 =
    - -10 to 45°C (14 to 113°F)
    - C frame requires conduit box option
- **Features**
  - Sleep/Wake
  - PID Control
  - Flying Start
  - Purge Input
  - Damper Input
  - Multi-stage pump control
  - Hand/Off/Auto
  - Drive Overload Protection
  - Integral Metasys N2 and Apogee FLN P1 communications
  - Optional LonWorks and BACnet communications
  - 3 contactor bypass



**Stand-Alone Drives**

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**Packaged Drives**

# DSI Communication Products

- These communication cards can be used in all PowerFlex component class drives.
  - Select based on application network



22-SCM-232  
RS-232 DF1



22-COMM-B  
BACnet MS/TP



22-COMM-C  
ControlNet



22-COMM-D  
DeviceNet



22-COMM-E  
EtherNet/IP



22-COMM-L  
LonWorks



22-COMM-P  
Profibus DP



1203-USB  
USB Converter



22-XCOMM  
Ext. DSI Kit



22-WIM-Nx  
*Bluetooth*



1769-SM2  
Compact I/O



AK-U0-RJ45-\*  
Cable Accessories

# PowerFlex® Component Class -HIMs

- Configure your drive parameters and PowerFlex HIMs, compatible with all PowerFlex component class drives.
  - DSI HIMs
  - Removable or mountable



Type I Remote  
& Hand-Held  
HIM  
(22-HIM-A3)



Type I Remote  
Mount Bezel  
(22-HIM-B1 with 22-  
HIM-A3)



Type 4 Remote  
Mount HIM  
(22-HIM-C2S)

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