



# PowerFlex 4M AC Drive

Providing users with powerful motor speed control in a compact, space saving design, the PowerFlex 4M AC drive is the smallest and most cost effective member of the PowerFlex family of drives.

Providing application flexibility, feed-through wiring and ease-of-programming this drive is ideal for machine level speed control, for applications requiring space savings and easy-to-use AC drives.

|                        |   |
|------------------------|---|
| Ratings                | 100...120V: 0.2...1.1 kW / 0.25...1.5 Hp / 1.6...6 A  |
|                        | 200...240V: 0.2...7.5 kW / 0.25...10 Hp / 1.6...33 A  |
|                        | 380...480V: 0.4...11 kW / 0.5...15 Hp / 1.5...24 A  |
| Motor Control          | V/Hz control  |
| Communications         | Integral RS 485   |
| User Interface         | Integral programming keypad and local LED   |
| Enclosures             | IP20  |
| Certifications         | <ul style="list-style-type: none"> <li>• UL</li> <li>• CE</li> <li>• cUL</li> <li>• C-Tick</li> </ul>                                 |
| Options                | See pages 24... 31  |
| Additional Information | <a href="#">PowerFlex 4M Technical Data, publication 22F-TD001</a><br><a href="#">PowerFlex 4M User Manual, publication 22F-UM001</a> |

## 100...120V AC, Single-Phase Drives (50/60 Hz, No Brake)

| Drive Ratings |      |                |            | IP20, NEMA/UL Open Type | w/Integral "S Type" EMC Filter |
|---------------|------|----------------|------------|-------------------------|--------------------------------|
| kW            | Hp   | Output Current | Frame Size | Cat. No.                | Cat. No.                       |
|               |      | A              |            |                         |                                |
| 0.2           | 0.25 | 1.6            | A          | 22F-V1P6N103            | -                              |
| 0.4           | 0.5  | 2.5            | A          | 22F-V2P5N103            | -                              |
| 0.75          | 1    | 4.5            | B          | 22F-V4P5N103            | -                              |
| 1.1           | 1.5  | 6              | B          | 22F-V6P0N103            | -                              |

## 200...240V AC, Single-Phase Drives (50/60 Hz, No Brake)

| Drive Ratings |      |                |            | IP20, NEMA/UL Open Type | w/Integral "S Type" EMC Filter <sup>⊗</sup> |
|---------------|------|----------------|------------|-------------------------|---|
| kW            | Hp   | Output Current | Frame Size | Cat. No.                | Cat. No.                                    |
|               |      | A              |            |                         |   |
| 0.2           | 0.25 | 1.6            | A          | 22F-A1P6N103            | 22F-A1P6N113                                |
| 0.4           | 0.5  | 2.5            | A          | 22F-A2P5N103            | 22F-A2P5N113                                |
| 0.75          | 1    | 4.2            | A          | 22F-A4P2N103            | 22F-A4P2N113                                |
| 1.5           | 2    | 8              | B          | 22F-A8P0N103            | 22F-A8P0N113                                |
| 2.2           | 3    | 11             | B          | 22F-A011N103            | 22F-A011N113                                |

<sup>⊗</sup> This filter is suitable for use with a cable length of up to 5 meters for class A environments and up to 1 meter for class B environments.

### 200...240V AC, Three-Phase Drives (50/60 Hz)

| Drive Ratings |      |                |            | IP20, NEMA/UL Open Type | w/Integral "S Type" EMC Filter |
|---------------|------|----------------|------------|-------------------------|--------------------------------|
| kW            | Hp   | Output Current | Frame Size | Cat. No.                | Cat. No.                       |
|               |      | A              |            |                         |                                |
| 0.2           | 0.25 | 1.6            | A          | 22F-B1P6N103            | -                              |
| 0.4           | 0.5  | 2.5            | A          | 22F-B2P5N103            | -                              |
| 0.75          | 1    | 4.2            | A          | 22F-B4P2N103            | -                              |
| 1.5           | 2    | 8              | A          | 22F-B8P0N103            | -                              |
| 2.2           | 3    | 12             | B          | 22F-B012N103            | -                              |
| 3.7           | 5    | 17.5           | B          | 22F-B017N103            | -                              |
| w/Brake       |      |                |            |                         |                                |
| 5.5           | 7.5  | 25             | C          | 22F-B025N104            | -                              |
| 7.5           | 10   | 33             | C          | 22F-B033N104            | -                              |

### 380...480V AC, Three-Phase Drives (50/60 Hz)

| Drive Ratings |     |                |            | IP20, NEMA/UL Open Type | w/Integral "S Type" EMC Filter |
|---------------|-----|----------------|------------|-------------------------|--------------------------------|
| kW            | Hp  | Output Current | Frame Size | Cat. No.                | Cat. No.                       |
|               |     | A              |            |                         |                                |
| 0.4           | 0.5 | 1.5            | A          | 22F-D1P5N103            | 22F-D1P5N113                   |
| 0.75          | 1   | 2.5            | A          | 22F-D2P5N103            | 22F-D2P5N113                   |
| 1.5           | 2   | 4.2            | A          | 22F-D4P2N103            | 22F-D4P2N113                   |
| 2.2           | 3   | 6              | B          | 22F-D6P0N103            | 22F-D6P0N113                   |
| 3.7           | 5   | 8.7            | B          | 22F-D8P7N103            | 22F-D8P7N113                   |
| w/Brake       |     |                |            |                         |                                |
| 5.5           | 7.5 | 13             | C          | 22F-D013N104            | 22F-D013N114                   |
| 7.5           | 10  | 18             | C          | 22F-D018N104            | 22F-D018N114                   |
| 11            | 15  | 24             | C          | 22F-D024N104            | 22F-D024N114                   |

\* This filter is suitable for use with a cable length of up to 10 meters for Class A environments.

# PowerFlex 4-Class Options

## Human Interface Modules and Accessories

| Description  | Cat. No.     | Used with PowerFlex Drive |   |    |     |     |
|--|--------------|---------------------------|---|----|-----|-----|
|  |              | 4M                        | 4 | 40 | 40P | 400 |
| Remote (Panel Mount) LCD Display, Digital Speed Control, CopyCat Capable. IP66 (NEMA/UL Type 4X/12) Indoor Use Only. Includes 2.0 meter cable.                                   | 22-HIM-C2S § | ✓                         | ✓ | ✓  | ✓   | ✓   |
| Remote Handheld, LCD Display, Full Numeric Keypad, Digital Speed Control, CopyCat Capable. IP30 (NEMA/UL Type 1). Includes 1.0 meter cable. Panel mount with optional Bezel Kit. | 22-HIM-A3    | ✓                         | ✓ | ✓  | ✓   | ✓   |
| Remote Handheld, Wireless Interface Module with Bluetooth* Technology. IP30 (NEMA/UL Type 1). Panel Mount with optional Bezel Kit.   | 22-WIM-N1    | ✓                         | ✓ | ✓  | ✓   | ✓   |
| Remote (Panel Mount), Wireless Interface Module with Bluetooth Technology. IP66 (NEMA/UL Type 4X/12) Indoor Use Only.  | 22-WIM-N4S   | ✓                         | ✓ | ✓  | ✓   | ✓   |
| Bezel Kit. Panel Mount for LCD Display, Remote Handheld Unit. IP30 (NEMA/UL Type 1). Includes a 22-RJ45CBL-C20 cable.  | 22-HIM-B1    | ✓                         | ✓ | ✓  | ✓   | ✓   |
| DSI HIM Cable (DSI HIM to RJ45 cable)  |              |                           |   |    |     |     |
| 1.0 Meter (3.3 Feet) DSI HIM Cable (DSI HIM to RJ45 cable)   | 22-HIM-H10   | ✓                         | ✓ | ✓  | ✓   | ✓   |
| 2.9 Meter (9.51 Feet) DSI HIM Cable (DSI HIM to RJ45 cable)  | 22-HIM-H30   | ✓                         | ✓ | ✓  | ✓   | ✓   |

§ The 22-HIM-C2S is smaller than the 22-HIM-C2 and cannot be used as a direct replacement.

## Safety Options

| Description                | Cat. No. | Used with PowerFlex Drive |   |    |     |     |
|----------------------------|----------|---------------------------|---|----|-----|-----|
|                            |          | 4M                        | 4 | 40 | 40P | 400 |
| DriveGuard Safe Torque-Off | 20A-DG01 |                           |   |    | ✓   |     |

## Other Options

| Description  | Cat. No.   | Used with PowerFlex Drive |   |    |     |     |
|--|------------|---------------------------|---|----|-----|-----|
|  |            | 4M                        | 4 | 40 | 40P | 400 |
| Auxiliary Relay Board - Expands drive output capabilities - Frames D-H only. | AK-U9-RLB1 |                           |   |    |     | ✓   |

## Terminators

| Description *                             | Cat. No.  | Used with PowerFlex Drive |   |    |     |     |
|---|-----------|---------------------------|---|----|-----|-----|
|   |           | 4M                        | 4 | 40 | 40P | 400 |
| for use with 3.7 kW (5 Hp) & below drives | 1204-TFA1 | ✓                         | ✓ | ✓  | ✓   | ✓   |
| for use with 1.5 kW (2 Hp) & up drives    | 1204-TFB2 | ✓                         | ✓ | ✓  | ✓   | ✓   |

\* Refer to Appendix A of publication *DRIVES-IN001* for selection information.

## Reflected Wave Reduction Modules w/Common Mode Choke

| Description *              | Cat. No.      | Used with PowerFlex Drive |   |    |     |     |
|----------------------------|---------------|---------------------------|---|----|-----|-----|
|                            |               | 4M                        | 4 | 40 | 40P | 400 |
| 17A with Common Mode Choke | 1204-RWC-17-A | ✓                         | ✓ | ✓  | ✓   | ✓   |

\* Refer to Appendix A of publication *DRIVES-IN001* for selection information.

## Reflected Wave Reduction Modules

| Voltage           | ND kW   | ND Hp | Cat. No.       | Used with PowerFlex Drive |   |    |     |     |
|-------------------|---------|-------|----------------|---------------------------|---|----|-----|-----|
|                   |         |       |                | 4M                        | 4 | 40 | 40P | 400 |
| 380...<br>480V AC | 2.2...4 | 3...5 | 1321-RWR8-DP   | ✓                         | ✓ | ✓  | ✓   | ✓   |
|                   | 4       | 5     | 1321-RWR12-DP  | ✓                         |   | ✓  | ✓   | ✓   |
|                   | 5.5     | 7.5   | 1321-RWR18-DP  | ✓                         |   | ✓  | ✓   | ✓   |
|                   | 7.5     | 10    | 1321-RWR25-DP  | ✓                         |   | ✓  | ✓   | ✓   |
|                   | 11      | 15    | 1321-RWR25-DP  | ✓                         |   | ✓  | ✓   | ✓   |
|                   | 15      | 20    | 1321-RWR35-DP  |                           |   |    |     | ✓   |
|                   | 18.5    | 25    | 1321-RWR45-DP  |                           |   |    |     | ✓   |
|                   | 22      | 30    | 1321-RWR55-DP  |                           |   |    |     | ✓   |
|                   | 30      | 40    | 1321-RWR80-DP  |                           |   |    |     | ✓   |
|                   | 37      | 50    | 1321-RWR80-DP  |                           |   |    |     | ✓   |
|                   | 45      | 60    | 1321-RWR100-DP |                           |   |    |     | ✓   |
|                   | 55      | 75    | 1321-RWR130-DP |                           |   |    |     | ✓   |
|                   | 75      | 100   | 1321-RWR160-DP |                           |   |    |     | ✓   |
|                   | 90      | 125   | 1321-RWR200-DP |                           |   |    |     | ✓   |
|                   | 110     | 150   | 1321-RWR250-DP |                           |   |    |     | ✓   |
| 500...<br>600V AC | 149     | 200   | 1321-RWR320-DP |                           |   |    |     | ✓   |
|                   | 187     | 250   | 1321-RWR320-DP |                           |   |    |     | ✓   |
|                   | 4       | 5     | 1321-RWR8-EP   |                           |   | ✓  | ✓   |     |
|                   | 5.5     | 7.5   | 1321-RWR12-EP  |                           |   | ✓  | ✓   |     |
|                   | 7.5     | 10    | 1321-RWR18-EP  |                           |   | ✓  | ✓   |     |
|                   | 11      | 15    | 1321-RWR25-EP  |                           |   | ✓  | ✓   |     |

## Communication Option Kits

| Description   | Cat. No.         | Used with PowerFlex Drive |     |     |     |     |
|---|------------------|---------------------------|-----|-----|-----|-----|
|   |                  | 4M                        | 4   | 40  | 40P | 400 |
| BACnet™ MS/TP RS485 Communication Adapter   | 22-COMM-B        |                           | ✓ ‡ | ✓ ♣ |     | ✓   |
| ControlNet™ Communication Adapter   | 22-COMM-C        | ✓ ‡                       | ✓ ‡ | ✓ ♣ | ✓ ♣ | ✓   |
| DeviceNet™ Communication Adapter  | 22-COMM-D        | ✓ ‡                       | ✓ ‡ | ✓ ♣ | ✓ ♣ | ✓   |
| EtherNet/IP™ Communication Adapter  | 22-COMM-E        | ✓ ‡                       | ✓ ‡ | ✓ ♣ | ✓ ♣ | ✓   |
| LonWorks® Communication Adapter   | 22-COMM-L        |                           | ✓ ‡ | ✓ ♣ | ✓ ♣ | ✓   |
| PROFIBUS™ DP Communication Adapter  | 22-COMM-P        | ✓ ‡                       | ✓ ‡ | ✓ ♣ | ✓ ♣ | ✓   |
| Serial Converter Module (RS485 to RS232). Provides serial communication via DF1 protocol for use with DriveExplorer and DriveExecutive™ software. Includes DSI to RS232 serial converter, 1203-SFC serial cable, 22-RJ45CBL-C20 cable, and DriveExplorer Lite CD. | 22-SCM-232       | ✓                         | ✓   | ✓   | ✓   | ✓   |
| Serial Cable. 2.0 meter with a locking low profile connector. Connects the serial converter to a 9-pin sub-miniature D female computer connector.   | 1203-SFC         | ✓                         | ✓   | ✓   | ✓   | ✓   |
| Serial Null Modem Adapter. Use when connecting the serial converter to DriveExplorer on a handheld PC.  | 1203-SNM         | ✓                         | ✓   | ✓   | ✓   | ✓   |
| Universal Serial Bus™ (USB) Converter includes 2m USB, 20-HIM-H10 & 22-HIM-H10 Cables   | 1203-USB         | ✓                         | ✓   | ✓   | ✓   | ✓   |
| DSI Cable. 2.0 meter RJ45 to RJ45 cable, male to male connectors.   | 22-RJ45CBL-C20   | ✓                         | ✓   | ✓   | ✓   | ✓   |
| Splitter Cable. RJ45 one to two port splitter cable.  | AK-U0-RJ45-SC1   | ✓                         | ✓   | ✓   | ✓   | ✓   |
| Terminal Block. RJ45 two position terminal block (6 pieces) with two 120 Ohm terminating resistors (loose).   | AK-U0-RJ45-TB2P  | ✓                         | ✓   | ✓   | ✓   | ✓   |
| Terminating Resistors. 120 Ohm resistor embedded in an RJ45 connector (2 pieces).   | AK-U0-RJ45-TR1   | ✓                         | ✓   | ✓   | ✓   | ✓   |
| DSI External Communications Kit. External mounting kit for 22-COMM Communication Adapters.  | 22-XCOMM-DC-BASE | ✓                         | ✓   | ✓   | ✓   | ✓   |
| External Communications Kit Power Supply<br>Optional 100...240V AC Power Supply for External DSI Communications Kit.  | 20-XCOMM-AC-PS1  | ✓                         | ✓   | ✓   | ✓   | ✓   |
| Compact I/O Module (3 Channel)  | 1769-SM2         | ✓                         | ✓   | ✓   | ✓   | ✓   |
| Serial Flash Firmware Kit<br>Updates drive firmware via computer.   | AK-U9-FLSH1      |                           |     |     |     | ✓   |
| Communication Adapter Cover<br>Houses the Communication Adapter for B & C Frame drives. Note: Cover adds 25 mm (0.98 in.) to the overall depth of the drive.  |                  |                           |     |     |     |     |
| Frame B Drive   | 22B-CCB          |                           |     | ✓ > |     |     |
| Frame C Drive   | 22B-CCC          |                           |     | ✓ > |     |     |
| Frame C Drive   | 22C-CCC          |                           |     |     |     | ✓ > |
| Frame B Drive   | 22D-CCB          |                           |     |     | ✓ > |     |
| Frame C Drive   | 22D-CCC          |                           |     |     | ✓ > |     |

‡ PowerFlex 4 & 4M drives require External DSI Communication Kits. Communication Adapters cannot be drive mounted.

♣ Requires a Communication Adapter Cover when used with Frame B & C PowerFlex 40/40P drives or Frame C PowerFlex 400 drives.

> If IP30, NEMA/UL Type 1 is required, a 22-JBCB (Frame B drives) or 22-JBCC (Frame C drives) must also be ordered.

## IP30, NEMA/UL Type 1 Conversion Kit

| Description  | Frame | Cat. No. | Used with PowerFlex Drive |   |    |     |     |
|--|-------|----------|---------------------------|---|----|-----|-----|
|  |       |          | 4M                        | 4 | 40 | 40P | 400 |
| Converts IP20 drive to IP30, NEMA/UL Type 1 enclosure. Includes conduit box, mounting screws and plastic top panel.                      | A     | 22-JBAA  |                           | ✓ |    |     |     |
|  | B     | 22-JBAB  |                           | ✓ | ✓  | ✓   |     |
|  | C     | 22-JBAC  |                           |   | ✓  | ✓   | ✓   |
| Converts IP20 drive to IP30, NEMA/UL Type 1 enclosure. Includes communication option conduit box, mounting screws and plastic top panel. | B     | 22-JBCB  |                           |   | ✓  | ✓   |     |
|  | C     | 22-JBCC  |                           |   | ✓  | ✓   | ✓   |

**Dynamic Brakes Resistors**

| Voltage                            | Drive Rating |      | Minimum Resistance | Resistance ⌘ | Cat. No. †      | Used with PowerFlex Drive |   |    |     |     |
|------------------------------------|--------------|------|--------------------|--------------|-----------------|---------------------------|---|----|-----|-----|
|                                    | kW           | Hp   | Ohms ±10%          | Ohms ±5%     |                 | 4M                        | 4 | 40 | 40P | 400 |
| 100...120V, 50/60 Hz, Single-Phase | 0.2          | 0.25 | 48                 | 91           | AK-R2-091P500   |                           | ✓ |    |     |     |
|                                    | 0.4          | 0.5  | 48                 | 91           | AK-R2-091P500   |                           | ✓ | ✓  |     |     |
|                                    | 0.75         | 1    | 48                 | 91           | AK-R2-091P500   |                           | ✓ | ✓  |     |     |
|                                    | 1.1          | 1.5  | 48                 | 91           | AK-R2-091P500   |                           |   | ✓  |     |     |
| 200...240V, 50/60 Hz, Single-Phase | 0.2          | 0.25 | 48                 | 91           | AK-R2-091P500   |                           | ✓ |    |     |     |
|                                    | 0.4          | 0.5  | 48                 | 91           | AK-R2-091P500   |                           | ✓ | ✓  |     |     |
|                                    | 0.75         | 1    | 48                 | 91           | AK-R2-091P500   |                           | ✓ | ✓  |     |     |
|                                    | 1.5          | 2    | 48                 | 91           | AK-R2-091P500   |                           | ✓ | ✓  |     |     |
| 200...240V, 50/60 Hz, Three-Phase  | 2.2          | 3    | 32                 | 47           | AK-R2-047P500   |                           |   | ✓  |     |     |
|                                    | 0.2          | 0.25 | 48                 | 91           | AK-R2-091P500   |                           | ✓ |    |     |     |
|                                    | 0.4          | 0.5  | 48                 | 91           | AK-R2-091P500   |                           | ✓ | ✓  | ✓   |     |
|                                    | 0.75         | 1    | 48                 | 91           | AK-R2-091P500   |                           | ✓ | ✓  | ✓   |     |
|                                    | 1.5          | 2    | 48                 | 91           | AK-R2-091P500   |                           | ✓ | ✓  | ✓   |     |
|                                    | 2.2          | 3    | 32                 | 47           | AK-R2-047P500   |                           | ✓ | ✓  | ✓   |     |
|                                    | 3.7          | 5    | 19                 | 47           | AK-R2-047P500   |                           | ✓ | ✓  | ✓   |     |
| 380...480V, 50/60 Hz, Three-Phase  | 5.5          | 7.5  | 13                 | 30           | AK-R2-030P1K2   | ✓                         |   | ✓  | ✓   |     |
|                                    | 7.5          | 10   | 10                 | 30           | AK-R2-030P1K2   | ✓                         |   | ✓  | ✓   |     |
|                                    | 0.4          | 0.5  | 97                 | 360          | AK-R2-360P500   |                           | ✓ | ✓  | ✓   |     |
|                                    | 0.75         | 1    | 97                 | 360          | AK-R2-360P500   |                           | ✓ | ✓  | ✓   |     |
|                                    | 1.5          | 2    | 97                 | 360          | AK-R2-360P500   |                           | ✓ | ✓  | ✓   |     |
|                                    | 2.2          | 3    | 97                 | 120          | AK-R2-120P1K2   |                           | ✓ | ✓  | ✓   |     |
|                                    | 4.0          | 5    | 77                 | 120          | AK-R2-120P1K2   |                           | ✓ | ✓  | ✓   |     |
| 500...600V, 50/60 Hz, Three-Phase  | 5.5          | 7.5  | 55                 | 120          | AK-R2-120P1K2   | ✓                         |   | ✓  | ✓   |     |
|                                    | 7.5          | 10   | 39                 | 120          | AK-R2-120P1K2   | ✓                         |   | ✓  | ✓   |     |
|                                    | 11           | 15   | 24                 | 120          | AK-R2-120P1K2 ❖ | ✓                         |   | ✓  | ✓   |     |
|                                    | 0.75         | 1    | 120                | 360          | AK-R2-360P500   |                           |   | ✓  | ✓   |     |
|                                    | 1.5          | 2    | 120                | 360          | AK-R2-360P500   |                           |   | ✓  | ✓   |     |
|                                    | 2.2          | 3    | 82                 | 120          | AK-R2-120P1K2   |                           |   | ✓  | ✓   |     |
|                                    | 4.0          | 5    | 82                 | 120          | AK-R2-120P1K2   |                           |   | ✓  | ✓   |     |
| 500...600V, 50/60 Hz, Three-Phase  | 5.5          | 7.5  | 51                 | 120          | AK-R2-120P1K2   |                           |   | ✓  | ✓   |     |
|                                    | 7.5          | 10   | 51                 | 120          | AK-R2-120P1K2   |                           |   | ✓  | ✓   |     |
|                                    | 11           | 15   | 51                 | 120          | AK-R2-120P1K2 ❖ |                           |   | ✓  | ✓   |     |

⌘ Verify resistor Ohms against minimum resistance for drive being used.

† Resistors listed are rated 5% duty cycle.

❖ Requires two resistors wired in parallel.

## Spare Parts

| Description          |  | Cat. No.       | Used with PowerFlex Drive |   |    |     |     |
|----------------------|--|----------------|---------------------------|---|----|-----|-----|
|                      |  |                | 4M                        | 4 | 40 | 40P | 400 |
| Fan Replacement Kits | Fan Replacement Kit - Frame A  | SK-U1-FAN1-A1  |                           | ✓ |    |     |     |
|                      | Fan Replacement Kit - Frame B, 1 Fan                                     | SK-U1-FAN1-B1  |                           | ✓ | ✓  | ✓   |     |
|                      | Fan Replacement Kit - Frame B, 2 Fans                                    | SK-U1-FAN2-B1  |                           | ✓ | ✓  | ✓   |     |
|                      | Fan Replacement Kit - Frame A  | SK-U1-FFAN1-A1 | ✓                         |   |    |     |     |
|                      | Fan Replacement Kit - Frame B  | SK-U1-FFAN1-B1 | ✓                         |   |    |     |     |
|                      | Fan Replacement Kit - Frame C  | SK-U1-FFAN1-C1 | ✓                         |   |    |     |     |
|                      | Fan Replacement Kit - Frame C, 1 Fan                                     | SK-U1-FAN1-C1  |                           |   | ✓  | ✓   | ✓*  |
|                      | Fan Replacement Kit - Frame C, 1 Fan, 15 Hp                              | SK-U1-FAN1-C2  |                           |   | ✓  | ✓   | ✓⊛  |
|                      | Fan Replacement Kit, NEMA 4X   | SK-U1-FAN1-B4  |                           |   | ✓  |     |     |
|                      | Fan Replacement Kit - Frame D, 2 Fans, B049...B090 & D038...D060 Ratings | SK-U1-FAN2-D1  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame E, 2 Fans, B120...B145 & D072...D142 Ratings | SK-U1-FAN2-E2  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame F, 2 Fans, IGBT, D170 & D208 Ratings         | SK-U1-FAN2-F1  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame F, 1 Fan, Rectifier, D170 & D208 Ratings     | SK-U1-FAN1-F2  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame F, 1 Fan, Choke, D170 & D208 Ratings         | SK-U1-FAN1-F3  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame G, 1 Fan (Side), D260 & D310 Ratings         | SK-U1-FAN1-G1  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame G, 2 Fans (Top), D260 & D310 Ratings         | SK-U1-FAN1-G2  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame G, 4 Fans (Bottom), D260 & D310 Ratings      | SK-U1-FAN4-G3  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame H, 1 Fan (Upper Side), D370 & D460 Ratings   | SK-U1-FAN1-H1  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame H, 1 Fan (Middle Side), D370 & D460 Ratings  | SK-U1-FAN1-H2  |                           |   |    |     | ✓   |
|                      | Fan Replacement Kit - Frame H, 4 Fans (Bottom), D370 & D460 Ratings      | SK-U1-FAN4-H3  |                           |   |    |     | ✓   |
| Covers               | Encoder Terminal Cover (All Frames)                                      | SK-U1-DCVR4-EN |                           |   |    | ✓   |     |
|                      | Frame A Cover with Power Terminal Guard                                  | SK-U1-ACVR1-A1 |                           | ✓ |    |     |     |
|                      | Frame B Cover with Power Terminal Guard                                  | SK-U1-ACVR1-B1 |                           | ✓ |    |     |     |
|                      | Frame A Cover  | SK-U1-FCVR1-A1 | ✓                         |   |    |     |     |
|                      | Frame B Cover  | SK-U1-FCVR1-B1 | ✓                         |   |    |     |     |
|                      | Frame C Cover  | SK-U1-FCVR1-C1 | ✓                         |   |    |     |     |
|                      | Frame B Cover with Power Terminal Guard                                  | SK-U1-BCVR1-B1 |                           |   | ✓  |     |     |
|                      | Frame C Cover with Power Terminal Guard                                  | SK-U1-BCVR1-C1 |                           |   | ✓  |     |     |
|                      | Frame B Cover, NEMA 4X   | SK-U1-BCVR1-B4 |                           |   | ✓  |     |     |
|                      | Frame B Cover with Power Terminal Guard                                  | SK-U1-DCVR3-B1 |                           |   |    |     | ✓   |
|                      | Frame C Cover with Power Terminal Guard                                  | SK-U1-DCVR3-C1 |                           |   |    |     | ✓   |
|                      | Frame C Cover with Power Terminal Guard                                  | SK-U1-CCVR1-C1 |                           |   |    |     | ✓   |
|                      | Frame D Cover  | SK-U1-CCVR1-D1 |                           |   |    |     | ✓   |
|                      | Frame E Cover  | SK-U1-CCVR1-E1 |                           |   |    |     | ✓   |
|                      | Frame F Cover  | SK-U1-CCVR1-F1 |                           |   |    |     | ✓   |
|                      | Frame G Cover  | SK-U1-CCVR1-G1 |                           |   |    |     | ✓   |
|                      | Frame H Cover  | SK-U1-CCVR1-H1 |                           |   |    |     | ✓   |
|                      | NEMA 4X Replacement Conduit Plugs  | SK-U1-PLUGS-B4 |                           |   | ✓  |     |     |

\* 3...10 HP @ 200...240V AC and 3...10 HP @ 380...480V AC

⊛ 15...20 HP @ 380...480V AC

**EMC Filters (Required to Meet CE Certification)**

| Drive Ratings   |      |      | PowerFlex 4M  |               | PowerFlex 4   |               | PowerFlex 40/40P |               | PowerFlex 400            |
|---|------|------|---------------|---------------|---------------|---------------|------------------|---------------|--------------------------|
| Input Voltage   | kW   | Hp   | S Type Filter | L Type Filter | S Type Filter | L Type Filter | S Type Filter    | L Type Filter | IP00 (NEMA/UL Type Open) |
|   |      |      | Cat. No. *    | Cat. No. ‡    | Cat. No. *    | Cat. No. ‡    | Cat. No. *       | Cat. No. ‡    | Cat. No. *               |
| 100...120V,<br>50/60 Hz,<br>Single-Phase              | 0.2  | 0.25 | -             | 22F-RF010-AL  | -             | 22-RF010-AL   | -                | -             | -                        |
|   | 0.4  | 0.5  | -             | 22F-RF010-AL  | -             | 22-RF010-AL   | -                | 22-RF018-BL ♣ | -                        |
|   | 0.75 | 1    | -             | 22F-RF025-BL  | -             | 22-RF018-BL   | -                | 22-RF018-BL ♣ | -                        |
|   | 1.1  | 1.5  | -             | 22F-RF025-BL  | -             | 22-RF025-CL § | -                | 22-RF018-BL ♣ | -                        |
| 200...240V,<br>50/60 Hz,<br>Single-Phase              | 0.2  | 0.25 | ⊗             | 22F-RF010-AL  | ⊗             | 22-RF010-AL   | -                | -             | -                        |
|   | 0.4  | 0.5  | ⊗             | 22F-RF010-AL  | ⊗             | 22-RF010-AL   | ⊗                | 22-RF018-BL ♣ | -                        |
|   | 0.75 | 1    | ⊗             | 22F-RF010-AL  | ⊗             | 22-RF010-AL   | ⊗                | 22-RF018-BL ♣ | -                        |
|   | 1.5  | 2    | ⊗             | 22F-RF025-BL  | ⊗             | 22-RF018-BL   | ⊗                | 22-RF018-BL ♣ | -                        |
| 200...240V,<br>50/60 Hz,<br>Single-Phase,<br>NO BRAKE | 0.2  | 0.25 | -             | -             | ⊗             | 22-RF010-AL   | -                | -             | -                        |
|   | 0.4  | 0.5  | -             | -             | ⊗             | 22-RF010-AL   | -                | -             | -                        |
|   | 0.75 | 1    | -             | -             | ⊗             | 22-RF010-AL   | -                | -             | -                        |
|   | 1.5  | 2    | -             | -             | ⊗             | 22-RF018-BL   | -                | -             | -                        |
| 200...240V,<br>50/60 Hz,<br>Three-Phase               | 2.2  | 3    | -             | -             | ⊗             | 22-RF025-CL § | -                | -             | -                        |
|   | 0.2  | 0.25 | 22F-RF9P5-AS  | 22F-RF9P5-AL  | 22-RF9P5-AS   | 22-RF9P5-AL   | -                | -             | -                        |
|   | 0.4  | 0.5  | 22F-RF9P5-AS  | 22F-RF9P5-AL  | 22-RF9P5-AS   | 22-RF9P5-AL   | 22-RF021-BS >    | 22-RF021-BL   | -                        |
|   | 0.75 | 1    | 22F-RF9P5-AS  | 22F-RF9P5-AL  | 22-RF9P5-AS   | 22-RF9P5-AL   | 22-RF021-BS >    | 22-RF021-BL   | -                        |
|   | 1.5  | 2    | 22F-RF9P5-AS  | 22F-RF9P5-AL  | 22-RF9P5-AS   | 22-RF9P5-AL   | 22-RF021-BS >    | 22-RF021-BL   | -                        |
|   | 2.2  | 3    | 22F-RF021-BS  | 22F-RF021-BL  | 22-RF021-BS   | 22-RF021-BL   | 22-RF021-BS >    | 22-RF021-BL   | 22-RF034-CS              |
|   | 3.7  | 5    | 22F-RF021-BS  | 22F-RF021-BL  | 22-RF021-BS   | 22-RF021-BL   | 22-RF021-BS >    | 22-RF021-BL   | 22-RF034-CS              |
|   | 5.5  | 7.5  | 22F-RF039-CS  | 22F-RF039-CL  | -             | -             | 22-RF034-CS      | 22-RF034-CL   | 22-RF034-CS              |
|   | 7.5  | 10   | 22F-RF039-CS  | 22F-RF039-CL  | -             | -             | 22-RF034-CS      | 22-RF034-CL   | 22-RF034-CS              |
|   | 11   | 15   | -             | -             | -             | -             | -                | -             | 22-RFD070                |
|   | 15   | 20   | -             | -             | -             | -             | -                | -             | 22-RFD100                |
|   | 18.5 | 25   | -             | -             | -             | -             | -                | -             | 22-RFD100                |
|   | 22   | 30   | -             | -             | -             | -             | -                | -             | 22-RFD150                |
|   | 30   | 40   | -             | -             | -             | -             | -                | -             | 22-RFD150                |
| 37  | 50   | -    | -             | -             | -             | -             | -                | 22-RFD180     |                          |
| 380...480V,<br>50/60 Hz,<br>Three-Phase               | 0.4  | 0.5  | 22F-RF6P0-AS  | 22F-RF6P0-AL  | 22-RF5P7-AS   | 22-RF5P7-AL   | 22-RF012-BS      | 22-RF012-BL   | -                        |
|   | 0.75 | 1    | 22F-RF6P0-AS  | 22F-RF6P0-AL  | 22-RF5P7-AS   | 22-RF5P7-AL   | 22-RF012-BS      | 22-RF012-BL   | -                        |
|   | 1.5  | 2    | 22F-RF6P0-AS  | 22F-RF6P0-AL  | 22-RF5P7-AS   | 22-RF5P7-AL   | 22-RF012-BS      | 22-RF012-BL   | -                        |
|   | 2.2  | 3    | 22F-RF012-BS  | 22F-RF012-BL  | 22-RF012-BS   | 22-RF012-BL   | 22-RF012-BS      | 22-RF012-BL   | 22-RF018-CS              |
|   | 3.7  | 5    | 22F-RF012-BS  | 22F-RF012-BL  | 22-RF012-BS   | 22-RF012-BL   | 22-RF012-BS      | 22-RF012-BL   | 22-RF018-CS              |
|   | 5.5  | 7.5  | 22F-RF026-CS  | 22F-RF026-CL  | -             | -             | 22-RF018-CS      | 22-RF018-CL   | 22-RF018-CS              |
|   | 7.5  | 10   | 22F-RF026-CS  | 22F-RF026-CL  | -             | -             | 22-RF018-CS      | 22-RF018-CL   | 22-RF018-CS              |
|   | 11   | 15   | 22F-RF026-CS  | 22F-RF026-CL  | -             | -             | 22-RF026-CS      | 22-RF026-CL   | 22-RF026-CS              |
|   | 15   | 20   | -             | -             | -             | -             | -                | -             | 22-RFD036                |
|   | 18.5 | 25   | -             | -             | -             | -             | -                | -             | 22-RFD050                |
|   | 22   | 30   | -             | -             | -             | -             | -                | -             | 22-RFD050                |
|   | 30   | 40   | -             | -             | -             | -             | -                | -             | 22-RFD070                |
|   | 37   | 50   | -             | -             | -             | -             | -                | -             | 22-RFD100                |
|   | 45   | 60   | -             | -             | -             | -             | -                | -             | 22-RFD100                |
|   | 55   | 75   | -             | -             | -             | -             | -                | -             | 22-RFD150                |
|   | 75   | 100  | -             | -             | -             | -             | -                | -             | 22-RFD180                |
|   | 90   | 125  | -             | -             | -             | -             | -                | -             | 22-RFD208                |
|   | 110  | 150  | -             | -             | -             | -             | -                | -             | 22-RFD208                |
| 132   | 200  | -    | -             | -             | -             | -             | -                | 22-RFD323     |                          |
| 160   | 250  | -    | -             | -             | -             | -             | -                | 22-RFD480     |                          |
| 200   | 300  | -    | -             | -             | -             | -             | -                | 22-RFD480     |                          |
| 250   | 350  | -    | -             | -             | -             | -             | -                | 22-RFD480     |                          |

Continued on next page

## EMC Filters (continued)

| Drive Ratings                           |      |     | PowerFlex 4M  |               | PowerFlex 4   |               | PowerFlex 40/40P |               | PowerFlex 400            |
|---|------|-----|---------------|---------------|---------------|---------------|------------------|---------------|--------------------------|
| Input Voltage                           | kW   | Hp  | S Type Filter | L Type Filter | S Type Filter | L Type Filter | S Type Filter    | L Type Filter | IP00 (NEMA/UL Type Open) |
|   |      |     | Cat. No. *    | Cat. No. ‡    | Cat. No. *    | Cat. No. ‡    | Cat. No. *       | Cat. No. ‡    | Cat. No. *               |
| 500...600V,<br>50/60 Hz,<br>Three-Phase | 0.75 | 1   | -             | -             | -             | -             | -                | 22-RF8P0-BL   | -                        |
|   | 1.5  | 2   | -             | -             | -             | -             | -                | 22-RF8P0-BL   | -                        |
|   | 2.2  | 3   | -             | -             | -             | -             | -                | 22-RF8P0-BL   | -                        |
|   | 4.0  | 5   | -             | -             | -             | -             | -                | 22-RF8P0-BL   | -                        |
|   | 5.5  | 7.5 | -             | -             | -             | -             | -                | 22-RF015-CL   | -                        |
|   | 7.5  | 10  | -             | -             | -             | -             | -                | 22-RF015-CL   | -                        |
|   | 11   | 15  | -             | -             | -             | -             | -                | 22-RF024-CL   | -                        |

\* This filter is suitable for use with a cable length of up to 10 meters for Class A and 1 meter for Class B environments.

⊗ Drives are available in these ratings with internal "S Type" filters.

‡ This filter is suitable for use with a cable length of up to 100 meters for Class A and 5 meters for Class B environments.

§ The piggyback mounting option cannot be used with Frame B PowerFlex 4 drives and Frame C EMC Line Filters.

♣ PowerFlex 40 Only.

➤ Filter must be Series B or later.

## DC Series Bus Inductors

| Voltage                                 | Drive Rating |     |      | Inductance | Cat. No.        | Used with PowerFlex Drive |   |    |     |     |
|---|--------------|-----|------|------------|-----------------|---------------------------|---|----|-----|-----|
|   | kW           | Hp  | Amps | mH         |                 | 4M                        | 4 | 40 | 40P | 400 |
| 200...240V,<br>50/60 Hz,<br>Three-Phase | 2.2          | 3   | 12   | 1.00       | 1321-DC12-1     |                           |   |    |     | ✓   |
|   | 3.7          | 5   | 17.5 | 0.65       | 1321-DC18-1     |                           |   |    |     | ✓   |
|   | 5.5          | 7.5 | 32   | 0.85       | 1321-DC32-1     |                           |   | ✓  |     | ✓   |
|   | 7.5          | 10  | 40   | 0.75       | 1321-DC40-2     |                           |   | ✓  |     | ✓   |
| 400...480V,<br>50/60 Hz,<br>Three-Phase | 2.2          | 3   | 6    | 2          | 1321-DC9-2      |                           |   |    |     | ✓   |
|   | 4.0          | 5   | 10.5 | 2.1        | 1321-DC12-2     |                           |   |    |     | ✓   |
|   | 5.5          | 7.5 | 18   | 3.75       | 1321-DC18-4     |                           |   | ✓  |     | ✓   |
|   | 7.5          | 10  | 25   | 1.28       | 1321-DC25-4     |                           |   | ✓  |     | ✓   |
|   | 11           | 15  | 32   | 2.68       | 1321-DC32-3     |                           |   | ✓  |     | ✓   |
| 500...600V,<br>50/60 Hz,<br>Three-Phase | 15           | 20  | 30   | 2.5        | 1321-DC40-4     |                           |   |    |     | ✓   |
|   | 5.5          | 7.5 | 12   | 2.1        | 1321-DC12-2_600 |                           |   | ✓  |     |     |
|   | 7.5          | 10  | 18   | 3.75       | 1321-DC18-4     |                           |   | ✓  |     |     |
|   | 11           | 15  | 25   | 1.28       | 1321-DC25-4     |                           |   | ✓  |     |     |



**Isolation Transformers for PowerFlex 400 - IP32, NEMA/UL Type 3R Standalone, 4...6% Nominal Impedance**

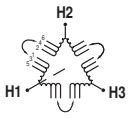


Diagram 1

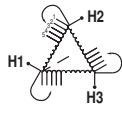


Diagram 2

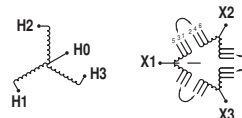


Diagram 3  
230V Primary, 460V Secondary Only

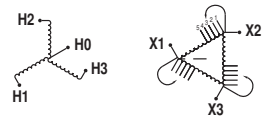


Diagram 4  
230V Primary, 460V Secondary Only

| Rating |     | Wiring Diagram | 208V, 60 Hz, Three-Phase Secondary | 230V, 60 Hz, Three-Phase Secondary |                |                |                | 460V, 60 Hz, Three-Phase Secondary |                |  |
|--------|-----|----------------|------------------------------------|------------------------------------|----------------|----------------|----------------|------------------------------------|----------------|--|
|        |     |                | 208V Primary                       | 230V Primary                       | 460V Primary   | 575V Primary   | 230V Primary   | 460V Primary                       | 575V Primary   |  |
|        |     |                | Cat. No.                           | Cat. No.                           | Cat. No.       | Cat. No.       | Cat. No.       | Cat. No.                           | Cat. No.       |  |
| 2.2    | 3.0 | 1/3            | 1321-3TW005-XX                     | 1321-3TW005-AA                     | 1321-3TW005-BA | 1321-3TW005-CA | 1321-3TW005-AB | 1321-3TW005-BB                     | 1321-3TW005-CB |  |
| 4.0    | 5.0 | 1/3            | 1321-3TW007-XX                     | 1321-3TW007-AA                     | 1321-3TW007-BA | 1321-3TW007-CA | 1321-3TW007-AB | 1321-3TW007-BB                     | 1321-3TW007-CB |  |
| 5.5    | 7.5 | 1/3            | 1321-3TW011-XX                     | 1321-3TW011-AA                     | 1321-3TW011-BA | 1321-3TW011-CA | 1321-3TW011-AB | 1321-3TW011-BB                     | 1321-3TW011-CB |  |
| 7.5    | 10  | 1/3            | 1321-3TW014-XX                     | 1321-3TW014-AA                     | 1321-3TW014-BA | 1321-3TW014-CA | 1321-3TW014-AB | 1321-3TW014-BB                     | 1321-3TW014-CB |  |
| 11     | 15  | 2/4            | 1321-3TW020-XX                     | 1321-3TW020-AA                     | 1321-3TW020-BA | 1321-3TW020-CA | 1321-3TW020-AB | 1321-3TW020-BB                     | 1321-3TW020-CB |  |
| 15     | 20  | 2/4            | 1321-3TW027-XX                     | 1321-3TW027-AA                     | 1321-3TW027-BA | 1321-3TW027-CA | 1321-3TW027-AB | 1321-3TW027-BB                     | 1321-3TW027-CB |  |
| 18.5   | 25  | 2/4            | 1321-3TW034-XX                     | 1321-3TW034-AA                     | 1321-3TW034-BA | 1321-3TW034-CA | 1321-3TW034-AB | 1321-3TW034-BB                     | 1321-3TW034-CB |  |
| 22     | 30  | 2/4            | -                                  | 1321-3TW040-AA                     | 1321-3TW040-BA | 1321-3TW040-CA | 1321-3TW040-AB | 1321-3TW040-BB                     | 1321-3TW040-CB |  |
| 30     | 40  | 2/4            | -                                  | 1321-3TW051-AA                     | 1321-3TW051-BA | 1321-3TW051-CA | 1321-3TW051-AB | 1321-3TW051-BB                     | 1321-3TW051-CB |  |
| 37     | 50  | 2/4            | -                                  | 1321-3TH063-AA                     | 1321-3TH063-BA | -              | 1321-3TH063-AB | 1321-3TH063-BB                     | -              |  |
| 45     | 60  | 2/4            | -                                  | -                                  | -              | -              | 1321-3TH075-AB | 1321-3TH075-BB                     | -              |  |
| 55     | 75  | 2/4            | -                                  | -                                  | -              | -              | 1321-3TH093-AB | 1321-3TH093-BB                     | -              |  |
| 75     | 100 | 2/4            | -                                  | -                                  | -              | -              | 1321-3TH118-AB | 1321-3TH118-BB                     | -              |  |
| 90     | 125 | 2/4            | -                                  | -                                  | -              | -              | 1321-3TH145-AB | 1321-3TH145-BB                     | -              |  |
| 110    | 150 | 2/4            | -                                  | -                                  | -              | -              | 1321-3TH175-AB | 1321-3TH175-BB                     | -              |  |
| 132    | 200 | 2/4            | -                                  | -                                  | -              | -              | 1321-3TH220-AB | 1321-3TH220-BB                     | -              |  |
| 160    | 250 | 2/4            | -                                  | -                                  | -              | -              | 1321-3TH275-AB | 1321-3TH275-BB                     | -              |  |
| 200    | 300 | 2/4            | -                                  | -                                  | -              | -              | 1321-3TH330-AB | 1321-3TH330-BB                     | -              |  |
| 250    | 350 | 2/4            | -                                  | -                                  | -              | -              | 1321-3TH440-AB | 1321-3TH440-BB                     | -              |  |

## Input & Output Line Reactors - 3% Impedance

| Voltage                              | Drive Ratings |      |              | IP00 *                          | IP11 *                       | Used with PowerFlex Drive |   |    |     |     |
|--------------------------------------|---------------|------|--------------|---------------------------------|------------------------------|---------------------------|---|----|-----|-----|
|                                      | kW            | Hp   | Amps         | (NEMA/UL Open Type)<br>Cat. No. | (NEMA/UL Type 1)<br>Cat. No. | 4M                        | 4 | 40 | 40P | 400 |
| 200...240V,<br>60 Hz,<br>Three-Phase | 0.2           | 0.25 | 2.0          | 1321-3R2-A                      | -                            | ✓                         | ✓ |    |     |     |
|                                      | 0.4           | 0.5  | 4.0          | 1321-3R4-B                      | -                            | ✓                         | ✓ | ✓  | ✓   |     |
|                                      | 0.75          | 1    | 8.0          | 1321-3R8-B                      | -                            | ✓                         | ✓ | ✓  | ✓   |     |
|                                      | 1.5           | 2    | 8.0          | 1321-3R8-A                      | -                            | ✓                         | ✓ | ✓  | ✓   |     |
|                                      | 2.2           | 3    | 12           | 1321-3R12-A                     | 1321-3RA12-A                 | ✓                         | ✓ | ✓  | ✓   | ✓   |
|                                      | 3.7           | 5    | 17.5         | 1321-3R18-A                     | 1321-3RA18-A                 | ✓                         | ✓ | ✓  | ✓   | ✓   |
|                                      | 5.5           | 7.5  | 24           | 1321-3R25-A                     | 1321-3RA25-A                 | ✓                         |   | ✓  | ✓   | ✓   |
|                                      | 7.5           | 10   | 33           | 1321-3R35-A                     | 1321-3RA35-A                 | ✓                         |   | ✓  | ✓   | ✓   |
|                                      | 11            | 15   | 49           | 1321-3R45-A                     | 1321-3RA45-A                 |                           |   |    |     | ✓   |
|                                      | 15            | 20   | 65           | 1321-3R55-A                     | 1321-3RA55-A                 |                           |   |    |     | ✓   |
|                                      | 18.5          | 25   | 75           | 1321-3R80-A                     | 1321-3RA80-A                 |                           |   |    |     | ✓   |
|                                      | 22            | 30   | 90           | 1321-3R80-A                     | 1321-3RA80-A                 |                           |   |    |     | ✓   |
|                                      | 30            | 40   | 120          | 1321-3R100-A                    | 1321-3RA100-A                |                           |   |    |     | ✓   |
| 37                                   | 50            | 145  | 1321-3R130-A | 1321-3RA130-A                   |                              |                           |   |    | ✓   |     |
| 380...480V,<br>60 Hz,<br>Three-Phase | 0.4           | 0.5  | 2.0          | 1321-3R2-B                      | -                            | ✓                         | ✓ | ✓  | ✓   |     |
|                                      | 0.75          | 1    | 4.0          | 1321-3R4-C                      | -                            | ✓                         | ✓ | ✓  | ✓   |     |
|                                      | 1.5           | 2    | 4.0          | 1321-3R4-B                      | -                            | ✓                         | ✓ | ✓  | ✓   |     |
|                                      | 2.2           | 3    | 6.0          | 1321-3R8-C                      | 1321-3RA8-C                  | ✓                         | ✓ | ✓  | ✓   | ✓   |
|                                      | 4.0           | 5    | 10.5         | 1321-3R8-B                      | 1321-3RA8-B                  | ✓                         | ✓ | ✓  | ✓   | ✓   |
|                                      | 5.5           | 7.5  | 12           | 1321-3R12-B                     | 1321-3RA12-B                 | ✓                         |   | ✓  | ✓   | ✓   |
|                                      | 7.5           | 10   | 17           | 1321-3R18-B                     | 1321-3RA18-B                 | ✓                         |   | ✓  | ✓   | ✓   |
|                                      | 11            | 15   | 22           | 1321-3R25-B                     | 1321-3RA25-B                 | ✓                         |   | ✓  | ✓   | ✓   |
|                                      | 15            | 20   | 30           | 1321-3R35-B                     | 1321-3RA35-B                 |                           |   |    |     | ✓   |
|                                      | 18.5          | 25   | 38           | 1321-3R35-B                     | 1321-3RA35-B                 |                           |   |    |     | ✓   |
|                                      | 22            | 30   | 45.5         | 1321-3R45-B                     | 1321-3RA45-B                 |                           |   |    |     | ✓   |
|                                      | 30            | 40   | 60           | 1321-3R55-B                     | 1321-3RA55-B                 |                           |   |    |     | ✓   |
|                                      | 37            | 50   | 72           | 1321-3R80-B                     | 1321-3RA80-B                 |                           |   |    |     | ✓   |
|                                      | 45            | 60   | 88           | 1321-3R80-B                     | 1321-3RA80-B                 |                           |   |    |     | ✓   |
|                                      | 55            | 75   | 105          | 1321-3R100-B                    | 1321-3RA100-B                |                           |   |    |     | ✓   |
|                                      | 75            | 100  | 142          | 1321-3R130-B                    | 1321-3RA130-B                |                           |   |    |     | ✓   |
| 90                                   | 125           | 170  | 1321-3R160-B | 1321-3RA160-B                   |                              |                           |   |    | ✓   |     |
| 110                                  | 150           | 208  | 1321-3R200-B | 1321-3RA200-B                   |                              |                           |   |    | ✓   |     |
| 500...600V,<br>60 Hz,<br>Three-Phase | 0.75          | 1    | 2.0          | 1321-3R2-B                      | -                            |                           |   | ✓  | ✓   |     |
|                                      | 1.5           | 2    | 4.0          | 1321-3R4-C                      | -                            |                           |   | ✓  | ✓   |     |
|                                      | 2.2           | 3    | 4.0          | 1321-3R4-B                      | -                            |                           |   | ✓  | ✓   |     |
|                                      | 4.0           | 5    | 8.0          | 1321-3R8-C                      | -                            |                           |   | ✓  | ✓   |     |
|                                      | 5.5           | 7.5  | 12           | 1321-3R12-B                     | -                            |                           |   | ✓  | ✓   |     |
|                                      | 7.5           | 10   | 12           | 1321-3R12-B                     | -                            |                           |   | ✓  | ✓   |     |
|                                      | 11            | 15   | 18           | 1321-3R18-B                     | -                            |                           |   | ✓  | ✓   |     |

\* Catalog numbers listed are for 3% impedance. 5% impedance reactor types are also available. Refer to publication 1321-TD001....