

# Special Application Three Phase, Open Drip Proof (ODP) UL<sup>®</sup> Listed for Fire Pump Applications



R, D,  
FD, FR

## APPLICATIONS:

For fire pump applications per NFPA<sup>®</sup> 20 where contaminants are minimal.

## FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame 250-360, Cast Iron Frame 400-440
- Aluminum End Shields 250, Cast Iron End Shields 280-440
- Premasked Mylar Nameplate 250-320, Stainless Steel 360-440 Frame
- 40°C Ambient, NEMA<sup>®</sup> Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Larger
- Double Shielded Bearings 250-400, Open On 440 Frame
- Lifting Provisions 210 Frame & Larger

- Suitable For Wye-Delta Start 250 Frame & Larger
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- 230/460 & 575 Volt Ratings Comply With NRCAN Standards
- 230/460 Volt Ratings Dual Plated for either 190/380 Volt or 200/400 Volt 50 Hertz, Next Lower Horsepower
- Oversized Connection Diagram
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

| HP | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 20 | 3600 | 200/400     | 254T  | FF20E1X        | \$1,724 | DS-3FFP         | 1.15 | 22.6              | 150            | 90.2           | 54/26.9        |       |
|    | 3600 | 208-230/460 | 254T  | FF20E1A        | \$1,724 | DS-3FFP         | 1.15 | 22.6              | 162            | 90.2           | 54-47/23.6     |       |
|    | 1800 | 200/400     | 256T  | FF20E2X        | \$1,934 | DS-3FFP         | 1.15 | 23.2              | 160            | 91.0           | 58/29.1        | 17    |
|    | 1800 | 208-230/460 | 256T  | FF20E2A        | \$1,934 | DS-3FFP         | 1.15 | 23.2              | 160            | 91.0           | 54-50/24.9     |       |
| 25 | 3600 | 200/400     | 256T  | FF25E1X        | \$2,252 | DS-3FFP         | 1.15 | 23.2              | 160            | 91.0           | 67/33          |       |
|    | 3600 | 208-230/460 | 256T  | FF25E1A        | \$2,252 | DS-3FFP         | 1.15 | 23.2              | 172            | 91.0           | 66-58/29       |       |
|    | 1800 | 200/400     | 284TS | FF25E2XS       | \$2,341 | DS-3FFP         | 1.15 | 23.5              | 300            | 91.7           | 70/35          |       |
|    | 1800 | 230/460     | 284TS | FF25E2ES       | \$2,341 | DS-3FFP         | 1.15 | 23.0              | 225            | 91.7           | 61/31          |       |
| 30 | 3600 | 200/400     | 284TS | FF30E1XS       | \$2,654 | DS-3FFP         | 1.15 | 23.5              | 300            | 92.4           | 78/39          |       |
|    | 3600 | 230/460     | 284TS | FF30E1ES       | \$2,654 | DS-3FFP         | 1.15 | 23.0              | 225            | 91.0           | 69/34          |       |
|    | 3000 | 380         | 286TS | FF30E1ZS       | \$2,654 | DS-3FFP         | 1.15 | 23.5              | 250            | 91.3           | 43             |       |
|    | 1800 | 200/400     | 286TS | FF30E2XS       | \$2,780 | DS-3FFP         | 1.15 | 23.5              | 350            | 93.6           | 79/40          |       |
|    | 1800 | 208-230/460 | 286TS | FF30E2AS       | \$2,780 | DS-3FFP         | 1.15 | 23.5              | 337            | 92.4           | 78-71/35       |       |
| 40 | 3600 | 200/400     | 286TS | FF40E1XS       | \$2,902 | DS-3FFP         | 1.15 | 23.5              | 350            | 91.7           | 106/53         |       |
|    | 3600 | 230/460     | 286TS | FF40E1ES       | \$2,902 | DS-3FFP         | 1.15 | 23.5              | 325            | 93.0           | 90/45          |       |
|    | 3000 | 380         | 324TS | FF40E1ZS       | \$2,902 | DS-3FFP         | 1.15 | 25.8              | 385            | 92.0           | 56             |       |
|    | 3600 | 575         | 286TS | FF40E1GS       | \$2,902 | DS-3FFP         | 1.15 | 23.5              | 325            | 93.0           | 36             | 38    |
|    | 1800 | 200/400     | 324TS | FF40E2XS       | \$3,225 | DS-3FFP         | 1.15 | 25.8              | 385            | 93.6           | 105/53         | 02    |
|    | 1800 | 208-230/460 | 324TS | FF40E2AS       | \$3,225 | DS-3FFP         | 1.15 | 25.8              | 416            | 93.6           | 102-91/46      |       |
|    | 1800 | 575         | 324TS | FF40E2GS       | \$3,225 | DS-3FFP         | 1.15 | 25.8              | 416            | 93.0           | 37             | 38    |
| 50 | 3600 | 200/400     | 324TS | FF50E1XS       | \$3,448 | DS-3FFP         | 1.15 | 25.8              | 385            | 93.0           | 134/67         | 02    |
|    | 3600 | 230/460     | 324TS | FF50E1DS       | \$3,448 | DS-3FFP         | 1.15 | 25.3              | 385            | 92.4           | 113.0/56.0     |       |
|    | 3000 | 380         | 326TS | FF50E1ZS       | \$3,448 | DS-3FFP         | 1.15 | 25.8              | 460            | 92.5           | 68             |       |
|    | 3600 | 575         | 324TS | FF50E1GS       | \$3,448 | DS-3FFP         | 1.15 | 25.8              | 416            | 92.4           | 46             | 38    |
|    | 1800 | 208-230/460 | 326TS | FF50E2AS       | \$3,779 | DS-3FFP         | 1.15 | 25.8              | 446            | 93.6           | 128-114/57     |       |
|    | 1800 | 575         | 326TS | FF50E2GS       | \$3,779 | DS-3FFP         | 1.15 | 25.8              | 446            | 93.0           | 46             | 38    |
| 60 | 3600 | 200/400     | 326TS | FF60E1XS       | \$4,752 | DS-3FFP         | 1.15 | 25.8              | 415            | 93.0           | 156/78         | 02    |
|    | 3600 | 230/460     | 326TS | FF60E1DS       | \$4,752 | DS-3FFP         | 1.15 | 25.3              | 275            | 93.0           | 132.0/66.0     |       |
|    | 3000 | 380         | 326TS | FF60E1ZS       | \$4,752 | DS-3FFP         | 1.15 | 25.8              | 460            | 92.9           | 82             |       |
|    | 3600 | 575         | 326TS | FF60E1GS       | \$4,752 | DS-3FFP         | 1.15 | 25.8              | 446            | 93.0           | 54             | 38    |
|    | 1800 | 200/400     | 364TS | FF60E2XS       | \$5,197 | DS-3FFP         | 1.15 | 26.6              | 580            | 94.1           | 159/80         |       |
|    | 1800 | 230/460     | 364TS | FF60E2ES       | \$5,197 | DS-3FFP         | 1.15 | 26.5              | 480            | 93.6           | 143/72         |       |
|    | 1800 | 575         | 364TS | FF60E2GS       | \$5,197 | DS-3FFP         | 1.15 | 26.6              | 580            | 94.1           | 55             | 38    |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 17 Twelve leads for across-the-line or wye-delta start on either voltage, part winding start on lower voltage  
 Note 38 Q-6 Leads for across-the-line or wye-delta start



# Special Application Three Phase, Open Drip Proof (ODP) UL<sup>®</sup> Listed for Fire Pump Applications



R, D,  
FD, FR

(continued)

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 75  | 3600 | 200/400 | 364TS | FF75E1XS       | \$6,255  | DS-3FFP         | 1.15 | 26.6              | 580            | 93.0           | 200/100        |       |
|     | 3600 | 230/460 | 364TS | FF75E1ES       | \$6,255  | DS-3FFP         | 1.15 | 26.6              | 611            | 94.1           | 171/85         |       |
|     | 3000 | 380     | 364TS | FF75E1ZS       | \$6,255  | DS-3FFP         | 1.15 | 26.5              | 525            | 93.2           | 102            |       |
|     | 3600 | 575     | 364TS | FF75E1GS       | \$6,255  | DS-3FFP         | 1.15 | 26.6              | 580            | 94.1           | 68             | 38    |
|     | 1800 | 200/400 | 365TS | FF75E2XS       | \$6,154  | DS-3FFP         | 1.15 | 27.6              | 600            | 94.1           | 199/99         |       |
|     | 1800 | 230/460 | 365TS | FF75E2ES       | \$6,154  | DS-3FFP         | 1.15 | 28.5              | 500            | 94.1           | 178/89         |       |
|     | 1800 | 575     | 365TS | FF75E2GS       | \$6,154  | DS-3FFP         | 1.15 | 27.6              | 600            | 95.0           | 70             | 38    |
| 100 | 3600 | 200/400 | 365TS | FF100E1XS      | \$7,255  | DS-3FFP         | 1.15 | 28.0              | 600            | 93.0           | 260/130        |       |
|     | 3600 | 230/460 | 365TS | FF100E1ES      | \$7,255  | DS-3FFP         | 1.15 | 28.5              | 480            | 93.0           | 228/114        |       |
|     | 3000 | 380     | 365TS | FF100E1ZS      | \$7,255  | DS-3FFP         | 1.15 | 28.5              | 595            | 93.8           | 135            |       |
|     | 3600 | 575     | 365TS | FF100E1GS      | \$7,255  | DS-3FFP         | 1.15 | 28.0              | 631            | 94.1           | 89             | 38    |
|     | 1800 | 200/400 | 404TS | FF100E2XS      | \$7,333  | DS-3FFP         | 1.15 | 29.5              | 750            | 94.5           | 261/130        | 47    |
|     | 1800 | 230/460 | 404TS | FF100E2BS      | \$7,333  | DS-3FFP         | 1.15 | 29.5              | 885            | 94.5           | 226/113        | 47    |
|     | 1800 | 575     | 404TS | FF100E2GS      | \$7,333  | DS-3FFP         | 1.15 | 29.5              | 750            | 95.0           | 90             | 38    |
| 125 | 3600 | 460     | 404TS | FF125E1CS      | \$9,717  | DS-3FFP         | 1.15 | 29.5              | 815            | 94.1           | 137            | 47    |
|     | 3000 | 380     | 405TS | FF125E1ZS      | \$9,717  | DS-3FFP         | 1.15 | 31.0              | 800            | 94.1           | 166            |       |
|     | 3600 | 575     | 404TS | FF125E1GS      | \$9,717  | DS-3FFP         | 1.15 | 29.5              | 750            | 94.1           | 110            | 38    |
|     | 1800 | 460     | 405TS | FF125E2CS      | \$9,758  | DS-3FFP         | 1.15 | 31.1              | 813            | 95.0           | 140            | 47    |
|     | 1800 | 575     | 405TS | FF125E2GS      | \$9,758  | DS-3FFP         | 1.15 | 31.1              | 813            | 95.0           | 112            | 38    |
| 150 | 3600 | 460     | 405TS | FF150E1CS      | \$11,990 | DS-3FFP         | 1.15 | 31.0              | 763            | 93.6           | 165            | 47    |
|     | 3000 | 380     | 444TS | FF150E1ZS      | \$11,990 | DS-3FFP         | 1.15 | 36.1              | 1100           | 94.3           | 206            |       |
|     | 3600 | 575     | 405TS | FF150E1GS      | \$11,990 | DS-3FFP         | 1.15 | 31.0              | 813            | 93.6           | 132            | 38    |
|     | 1800 | 460/380 | 444TS | FF150E2FS      | \$12,757 | DS-3FFP         | 1.15 | 36.1              | 1100           | 95.0           | 171            | 47    |
|     | 1800 | 575     | 444TS | FF150E2GS      | \$12,757 | DS-3FFP         | 1.15 | 36.1              | 1100           | 95.0           | 136            | 38    |
| 200 | 3600 | 460/380 | 444TS | FF200E1FS      | \$15,532 | DS-3FFP         | 1.15 | 36.1              | 1100           | 94.5           | 225            | 47    |
|     | 3000 | 380     | 445TS | FF200E1ZS      | \$15,532 | DS-3FFP         | 1.15 | 36.1              | 1200           | 94.8           | 269            |       |
|     | 3600 | 575     | 444TS | FF200E1GS      | \$15,532 | DS-3FFP         | 1.15 | 36.1              | 1100           | 94.5           | 180            | 38    |
|     | 1800 | 460/380 | 445TS | FF200E2FS      | \$15,945 | DS-3FFP         | 1.15 | 36.1              | 1200           | 95.0           | 230            | 47    |
|     | 1800 | 575     | 445TS | FF200E2GS      | \$15,945 | DS-3FFP         | 1.15 | 36.1              | 1200           | 95.0           | 189            | 38    |
| 250 | 3600 | 460     | 445TS | FF250E1FS      | \$20,473 | DS-3FFP         | 1.15 | 36.1              | 1200           | 94.5           | 276            | 38    |
|     | 3000 | 380     | 447TS | FF250E1ZS      | \$20,473 | DS-3FFP         | 1.15 | 39.5              | 1700           | 95.0           | 331            |       |
|     | 1800 | 460/380 | 445TS | FF250E2FFS     | \$18,025 | DS-3FFP         | 1.15 | 36.1              | 1200           | 95.4           | 281            | 47    |
|     | 1800 | 575     | 445TS | FF250E2GFS     | \$18,025 | DS-3FFP         | 1.15 | 36.1              | 1200           | 95.4           | 225            | 47    |
| 300 | 3600 | 460/380 | 445TS | FF300E1FFS     | \$28,306 | DS-3FFP         | 1.15 | 36.1              | 1200           | 95.0           | 326            | 47    |
|     | 3000 | 380     | 447TS | FF300E1ZS      | \$28,306 | DS-3FFP         | 1.15 | 39.5              | 1700           | 95.0           | 398            |       |
| 350 | 3000 | 380     | 447TS | FF350E1ZS      | \$35,861 | DS-3FFP         | 1.15 | 39.5              | 1700           | 95.0           | 459            |       |

Note 38

Q-6 Leads for across-the-line or wye-delta start

Note 47

Q-12 leads for across-the-line, wye-delta or part winding start

