

Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

All Cast Iron Construction

Cast Iron Conduit Box

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 153 | 161 | 193 | 209 | 234 | 242 | 346 | 483 | 636 | - | - | - | - |

Replacement of Steel Conduit Box with Cast Iron version.

Available on Hostile Duty Motors (Types FCT, CTE, CTI, CT)

Cast Iron Fan Cover

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|------|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 145 | 161 | 234 | 371 | 443 | 467 | 822 | 1369 | 1530 | - | - | - | - |

Replacement of Steel Conduit Box with Cast Iron version.

Available on Hostile Duty Motors (Types FCT, CTE, CTI, CT)

Assembly Mounting

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 338 | 338 | 338 | 371 | 451 | 451 | 451 | 564 | 564 | 564 | 1047 | - | 650 | - |

Convert standard F1 Assembly to F2, W1, W2, W3 or W4 Assembly. Involves repositioning output shaft to achieve proper configuration.

Not Available on 180-250 Frame Flange Mount (C or D Flange) UNIMOUNT®.

Not Available on 180-320 Frame ODP.

Availability:

Contact your Emerson Technical Representative for 180-250 Frame Premium and Energy Efficient ODP capability.

56-140 Frame: Very limited availability; Contact your Emerson Technical Representative prior to quoting.

449 Frame: Available on ODP Only.

180-447 Frame: Available on ODP, TEFC & Hazardous Location Motors.

5000 Frame: Available On Type JDE, R & RS Only.

F1 to F2 UNIMOUNT® base must be repositioned for correct "BA" Dimension.

Base, Removal Of Feet

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 161 | 161 | 161 | 161 | 161 | 161 | - | - | - | - | - | - | - | - |

For Flange Mount ("C" or "D" Flange) Motors, involves removal of Bolt-On Base.

Contact your Emerson Technical Representative for availability on 56 & 140 Frame

Available on UNIMOUNT® Motors 180 Frame & Larger.

UNIMOUNT® Motors (some 56 & 140 Frames have welded bases).

Bearings

Sealed

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 174 | 190 | 203 | 322 | 322 | 564 | 564 | - | - | - | - | - | - |

Includes replacing the standard bearings with Sealed Bearings, and replacing the Grease Fittings with Plugs.

Available on ODP, TEFC and Hazardous Location Enclosures.

Most 180-360 Frame Motors have Shielded Bearings as standard.

56 Frame & most 140 Frame Motors have Sealed Bearings as standard.

Single Shielded

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | - | 403 | 483 | 564 | - | - | - | - | - | - | - | - |

Includes replacing the standard bearings with Single Shielded Bearings.

Currently only available on 210-280 Frame 841 PLUS® (Type CE) Motors.

Roller Bearing On Drive End

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | - | - | - | - | - | - | - | - | - | 1430 | 1430 | 1430 |

Includes replacing the standard Drive End Bearing with a Roller Bearing.

Available on TEFC Motors (Types J, JCE & JDE) only.

449 (TE) is CARB® Bearing

Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Brakes

Install Brake Kit (Must Also Add The Price Of The Brake Kit)

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 354 | 354 | 354 | 354 | - | - | - | - | - | - | - | - | - | - |

Use the above adder PLUS List Price of the Brake Kit. Refer to the Quick Pick Chart or Kits Section for Brake Kits prices.

Available on UNIMOUNT® Motors (Type FUT, UTE, UTI, UT), 56-210 Frame. Involves removal of Fan Guard and adding Stub Shaft with Brake and Adaptor.

Change Brake Coil

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 354 | 354 | 354 | 354 | - | - | - | - | - | - | - | - | - | - |

Changing of coils allows operation of Brakes at various voltages on 50 or 60 HZ power supplies. Specify voltage of Brake Coil and Frequency of power supply.

Allow up to two (2) weeks for delivery based on availability of coils. Contact your Emerson Technical Representative for availability of this option.

FCR Brakemotor

Inertia Change

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 145 | 177 | 177 | - | - | - | - | - | - | - | - | - | - | - |

Manual Brake Release

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 145 | 177 | 177 | 258 | 258 | - | - | - | - | - | - | - | - | - |

Coupling

Mount Customer Half Coupling

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | - | - | - | - | - | - | - | - | - | 1380 | 1380 | 1380 |

Customer's one-piece coupling half can be factory mounted on the Motor Shaft. Coupling half must be finish machined and key seated to motor shaft dimensions and sent transportation prepaid and properly identified to the motor factory.

Motors will be dynamically balanced prior to installing the half coupling and will not be rebalanced after coupling assembly. Contact your Emerson Technical Representative for availability and leadtime.

Conduit Boxes

Accessory Conduit Box

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | 548 | 548 | 548 | 548 | 548 | 548 | 548 | 548 | 548 | - | - | - |

A conduit can be added to the Main Motor Conduit Box for routing of accessory leads.

Available on ODP and TEFC (not Hazardous Location) ratings.

Rotate Conduit Box

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 |

Standard Motors have lead opening facing down (toward Motor feet). Includes rotating the Conduit Box so the lead opening is facing the desired direction.

Specify direction of lead opening: Facing Up (away from Motor feet), Facing Pulley End (Shaft End), or Facing Short End (Fan End).

Cast Iron Conduit Box

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 153 | 161 | 193 | 209 | 234 | 242 | 346 | 483 | 636 | - | - | - | - |

Replacement of Steel Conduit Box with Cast Iron version.

Available on Hostile Duty Motors (Types FCT, CTE, CTI, CT)

Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Conduit Boxes (continued)

Oversized Conduit Box

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 242 | 242 | 242 | 242 | 242 | 322 | 322 | 403 | 403 | 403 | - | - | - |

Replacement of standard box with one at least twice the NEMA® minimum volume.

Assemble To Motor

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | 145 | 145 | 145 | 145 | - | - | - | - | - | - | - | - |

Includes mounting the Conduit Box on the motor (for motors that have the Conduit Box shipped loose).

Drains (Breather/Drains)

Plastic Plug/Drain

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 185 | 185 | 185 | 242 | 242 | 242 | 242 | 242 | 242 | - | - | - | - |

Install Plastic Plug/Drains in place of standard drains.

Available on 180-440 Frame Cast Iron Enclosed Motors.

Stainless Steel T-Type Breather/Drain

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | - | - | - | - |

Install Stainless Steel T-Type Breather/Drains in place of standard drains.

Available on 180-440 Frame Cast Iron Enclosed Motors.

Dripcover/Canopy Cap

TEFC Unimount® (Type FUT, UTE, UTI, UT, UTF)

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 145 | 145 | 161 | 177 | 209 | 242 | - | - | - | - | - | - | - | - |

Install Drip Cover Kit for Vertical Shaft Down mounting.

Open Dripproof (Type FD, DE, DI)

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 145 | 161 | 177 | 209 | 242 | 274 | - | - | - | - | - | - | - |

Install Drip Cover Kit for Vertical Shaft Down mounting.

TEFC Cast Iron (Type FCT, CT, CTE, CTI, CE, TCE)

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 169 | 282 | 282 | 282 | 372 | 372 | 372 | 677 | 677 | - | - | - | - |

Install Drip Cover Kit for Vertical Shaft Down mounting.

Not available on most 320-360 Frame TEFC motors.

† All non-Emerson Electric Co. marks shown within this document are properties of their other respective owners

Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Hazardous Location, Division 2 Non-Listed

(+) Refer To The Charts Below For Pricing

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) |

The following restrictions apply:

- Not available on Div. 1 Hazardous Location construction motors
- Must use Energy or Premium Efficient Motors
- Class II not available on ODP motors

- Temp Codes T-4 to T-6 not available

- Group E not available

- Not available on Inverter Duty

Contact your Emerson Technical Representative to confirm availability.

Class I, T-Code T1-T2B

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 5% | 5% | 5% |

Percentage Adders are percent of Base List Price.

Class I, T-Code T2C-T3A

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 371 | 371 | 371 | 371 | 371 | 371 | 467 | 467 | 644 | 757 | 757 | 5% | 5% | 5% |

Percentage Adders are percent of Base List Price.

Class I, T-Code T3B

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 5% | 5% | 5% |

Percentage Adders are percent of Base List Price.

Class I, T-Code T3C

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 371 | 371 | 371 | 371 | 371 | 467 | 467 | 644 | 757 | 757 | 5% | 5% | 5% |

Percentage Adders are percent of Base List Price.

Class I & II, T-Code T1-T3C

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|------|------|------|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 757 | 757 | 757 | 757 | 757 | 757 | 1095 | 1095 | 1208 | 1418 | 1418 | 5% | 5% | 5% |

Percentage Adders are percent of Base List Price.

Export Boxing - Refer to page 335 for details.

Fans, Install Uni-Directional

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | - | - | 451 | 451 | 580 | 580 | 677 | 677 | - | 830 | - | 1050 |

Removal of Bi-Directional or Uni-Directional Fan and replace with Uni-Directional type with desired rotation.

Available on Totally Enclosed Fan Cooled (TEFC) motors.

Specify desired rotation when viewed from opposite drive end of motor.

Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Flanges

C-Face

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|------|------|------|------|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 242 | 242 | 290 | 330 | 725 | 1007 | 1087 | 1176 | 1450 | 1692 | - | - | - | - |

Removal of standard end shield and replace with C-Face.

Available on UNIMOUNT®, Hostile Duty, CORRO-DUTY®, Automotive Duty & 841 PLUS® motors. 140-250 Frame will have Non-NEMA® "BA" Dimension (except for UNIMOUNT®)

D-Flange

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|------|------|------|------|------|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 403 | 403 | 419 | 353 | 1087 | 1208 | 1369 | 1595 | 2014 | 2900 | - | - | - | - |

Removal of standard end shield and replace with D-Flange.

Available on UNIMOUNT®, Hostile Duty, CORRO-DUTY®, Automotive Duty & 841 PLUS® motors.

Grease, Low Temperature

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 137 | 137 | 145 | 187 | 208 | 292 | 313 | 499 | 688 | 688 | - | - | - |

Purge and repack lubricant in End Shields with Mobil 28[®] grease, or equivalent, with temperature range of -65°F to 350°F.

Available on motors with shielded or open bearings.

Note: For 140 Frame Motors, only available on 841 PLUS® (Type CE); other 140 Frame motors have sealed bearings.

Grease Fittings

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | 209 | 209 | 209 | 209 | 209 | 322 | 322 | 322 | 322 | - | - | - |

Replace Grease Plugs on motors so equipped with Hydraulic Grease Fittings on inlets and Pressure Reliefs on grease drains.

Not available on Hazardous Location motors.

Ground Lug

In Conduit Box

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 300 | 300 | 300 |

Addition of Ground Lug in main Motor Conduit Box.

On Frame

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | 371 | 371 | 371 | 371 | 371 | 371 | 371 | 371 | 371 | 300 | 300 | 300 |

Addition of drilled and tapped hole on Conduit Box side of frame and installation of a Bronze Grounding Screw.

Available on Cast Iron Ratings only. Not available on Hazardous Location motors.

Hardware, Stainless Steel

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|------|------|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | 548 | 548 | 918 | 918 | 918 | 1257 | 1257 | 1643 | 1643 | - | - | - |

Replacement of all external hardware with Stainless Steel (standard hardware is Zinc Plated)

Available on Cast Iron Ratings only. Not available on Hazardous Location motors.

† All non-Emerson Electric Co. marks shown within this document are properties of their other respective owners

Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Leads

Ring Type Lead Lugs

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 140 | 140 | 140 | 140 | 161 | 161 | - | - | - | - | - | - | - | - |

Addition of Ring Type Lead Lugs on 56-280 Frame motors.

Crimp Type Lead Lugs are standard on all 320 Frame and larger motors.

Tie Back Leads

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 274 | 274 | 274 | 403 | 403 | 612 | 612 | 612 | 612 | 612 | 612 | - | - | - |

Reconnect Dual Voltage 9-Lead or 12-Lead mtors to 3-Lead Single Voltage.

Specify desired voltage when ordering.

Tie back and connect leads inside frame for Single Voltage 3-Lead Conduit Box Connections.

Available on Non-Hazardous Location motors.

Lifting Lugs

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | 274 | - | - | - | - | - | - | - | - | - | - | - |

Addition of Lifting Lugs to motors normally not supplied with them.

Currently only available on 180 Frame Premium Efficient ODP motors (Type DE).

Marine Duty

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 338 | 338 | 338 | 338 | 419 | 419 | 419 | 419 | 612 | 612 | 612 | 5% | 5% | 5% |

Conversion of standard product to IEEE-45 Below Deck standards.

Motors will **NOT** include USCG documentation.

Includes addition of Screens (on ODP motors), Lead Terminals, Moisture Resistant Winding

Not available on Titan® Sleeve Bearing motors.

Treatment and rerate to 50°C Ambient 1.0 Service Factor.

Nameplates

Additional Duplicate Nameplate

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 |

An additional duplicate nameplate for mounting on customer equipment.

These additional nameplates cannot be supplied with CSA® or UL® logos.

Additional Stamping On Main Nameplate

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | - | - | - |

The main motor nameplate can be stamped with limited customer tagging information (20 characters max).

Rotation Arrow

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | - | - | - |

Metal plate mounted on motor with arrow showing direction of rotation.

Customer must specify required direction of rotation: Counterclockwise facing opposite drive

Supplied as standard on motors with Uni-Directional Fans.

end or Clockwise facing opposite drive end.

Shipping Tag (#6 Paper Tag)

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | NC | NC | NC | NC | NC | NC | NC | NC | NC | NC | NC | NC | NC | NC |

A #6 Paper Shipping Tag, with customer tagging information, can be supplied at no charge when specified at time of motor order.

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Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Nameplates (continued)

Special I.D. Plate

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 140 | 140 | 140 |

Special Identification Plates can be mounted on the motor with limited customer specified tagging information (100 characters max).

Re-Nameplate (Re-Rate)

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 140 | 140 | 140 |

Motors can be Re-Nameplated (after approval) for alternate ratings — changes in horsepower, altitude, ambient, voltage, frequency, etc. Contact your Emerson Technical Representative for approval prior to quoting.

Firepump Label

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | - | - |

Percentage adders are percent of Base List Price.

UL[®] Listed Fire Pump Motors are designed per UL-1004-5[®] and meet the NFPA-20[®]

"Standard for the Installation of Centrifugal Fire Pump Spec."

This conversion is to add the Fire Pump Label. Contact your Emerson Technical Representative with exact rating to confirm that it meets the Fire Pump requirements.

Not available on Hazardous Location, VFD or Air Over Motors.

Paint, Special

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 322 | 322 | 322 | 322 | 596 | 596 | 596 | 596 | 596 | 596 | 1176 | 5% | 5% | 5% |

Percentage adders are percent of Base List Price.

Special Paint must be approved by the Conversion Center/Plant prior to quoting. A Material Data Safety Sheet (MSDS) must be sent to the Conversion Center/Plant for their review.

A Special Paint can be furnished (once approved) if compatible with our standard paint/primer, is commercially available, and suitable for air drying (paints containing lead or zinc cannot be used, and sand blasting is not available).

Prints & Data (Submittals)

(Net Adders)

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) |

(+) The following Submittals are considered Standard Submittals, and are available at No Charge (NC) (up to Q-5 sets) if requested at time of Motor order:

- Certified Dimension Print
- Performance Data
- Nameplate Data
- Instruction Manual
- Wiring Diagram
- Parts List
- Recommended Spare Parts
- Cut Sheets For Accessories
- Conduit Box Details
- Major Component Weights
- Paint Specification
- Rotor Air Gap (Calculated)
- Rotor Inertia

(+) The following additional Submittal items are available at the NET ADDER shown:

| Submittal Item | Net Adder | Submittal Item | Net Adder |
|--|-----------|------------------------------------|-----------|
| • Speed vs. Torque & Amps Curve | \$60 | • Sound Power In Watts | \$60 |
| • Speed vs. Torque & Amps Curve (Metric) | \$170 | • Sound Data vs. Center Band | \$60 |
| • Shaft Stall Time Curve | \$170 | • Customer Data Sheet | \$60 |
| • Acceleration Curve | \$170 | • Equivalent Circuit Data | \$60 |
| • Performance Curves | \$170 | • UL [®] Certificate | \$4500 |
| • Performance Curves (Metric Units) | \$280 | • Certificate of Conformance | \$60 |
| • Shaft Stiffness | \$170 | • Shaft Print | \$60 |
| • Mass Elastic Data | \$170 | • Shaft Print w/ Material Strength | \$220 |
| • Sound Pressure In dB @ 3 Feet | \$30 | • Rotor Detail Print | \$280 |
| | | • Rotor Detail w/Shaft Print | \$330 |
| | | • Current Pulsation Analysis | \$220 |
| | | • Bearing Life Calculation | \$150 |

Screens

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | - | 226 | 226 | 226 | 226 | 226 | 403 | 403 | 403 | 403 | - | STD | STD |

Addition of Rodent Screens to ventilation openings on Open Dripproof motors.

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Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Sealant, RTV

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 145 | 145 | 145 | 193 | 258 | 258 | 322 | 322 | 354 | 354 | 354 | - | - | - |

RTV sealant on registers between brackets and frame.

Not available on Hazardous Location motors. Available on Cast Iron TEFC only.

Space Heaters

ODP or TEFC Motors

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 322 | 322 | 403 | 403 | 596 | 596 | 596 | 596 | 693 | 693 | 1257 | 1150 | 1150 | 1150 |

Hazardous Location Motors

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|------|------|------|------|------|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 870 | 870 | 870 | 1305 | 1305 | 1305 | 1305 | 1482 | 1482 | - | - | - | - |

Space Heaters are installed to prevent moisture condensation in the motor during times the motor is not running. Emerson uses silicon rubber strip-type heaters manufactured by sand-wiching a resistance wire network between two pieces of high-temperature silicon rubber and bonding the pieces together.

Heaters are sized to provide approximately 10°C temperature rise above the ambient temperature.

Heaters are placed on the end turns of the motor winding.

Heaters are of the low density type, which yields low surface temperature and long life.

Heaters are single phase, rated 60 or 50 Hertz.

Space heaters are available in the following voltages:

- 115, 230, 460 & 575 Volt
- 230 Volt operated at 115 Volt.

Testing

Short Commercial Test, Un-Witnessed

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 282 | 282 | 282 | 282 | 612 | 612 | 612 | 612 | 612 | 612 | 612 | 380 | 380 | 380 |

A short commercial test, per NEMA® MG-1 Part 12, consists of no load current, locked rotor current (performed at reduced voltage, typically 25-50%), winding resistance, high potential and bearing inspection. A test report is provided to the customer.

Complete Initial Test, Un-Witnessed

| | | | | | | | | | | | | | | |
|--------|------|------|------|------|------|------|------|------|------|---------|----------|----------|------|-------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 2457 | 2457 | 2457 | 2457 | 3649 | 3649 | 3649 | 3649 | 3649 | 3649 | 3649 | 5230 | 8400 | 10700 |

A complete initial test consists of full load heat run, percent slip, no load current, full load current, locked rotor current, locked rotor torque, breakdown torque (calculated), efficiency and power factor at 100%, 75% and 50% full load, winding resistance, high potential and bearing inspection. This test is performed in accordance with IEEE 112 Method B. A test report is provided to the customer. Motor will be shipped to an Emerson facility with a calibrated lab for testing and will require additional leadtime. Contact your Emerson Technical Representative for availability and leadtime.

Complete Initial Test, Witnessed

| | | | | | | | | | | | | | | |
|--------|------|------|------|------|-------|-------|-------|-------|-------|---------|----------|----------|-------|-------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 8506 | 8506 | 8506 | 8506 | 13782 | 13782 | 13782 | 13782 | 13782 | 13782 | 13782 | 7860 | 12150 | 16100 |

A complete initial test, as described above, performed in the presence of a witness. Motor will be shipped to an Emerson Facility with a calibrated lab for testing and will require additional leadtime. Scheduling must be coordinated with the test facility. Contact your Emerson Technical Representative for availability and leadtime.

Megger Test

| | | | | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | 322 | 322 | 322 | 322 | 628 | 628 | 628 | 628 | 628 | 628 | 628 | - | - | - |

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Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Thermal Protection, Windings

Thermostats

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Adder: | 209 | 209 | 209 | 209 | 564 | 564 | 564 | 564 | 564 | 564 | 564 | 460 | 460 | 460 |

Thermostats: Snap action, bi-metallic, temperature actuated switches installed on the end-turns of the Motor winding. Their purpose is to activate a warning device or shut down the Motor upon excessive winding temperatures.

Standard arrangement is addition of 2 or 3 Thermostats to the winding end-turns, connected in series with the leads brought out to the Main Motor Conduit Box.
The following options are available: Thermostats, Normally Closed; TW02 Thermostats, Normally Open; Thermostats, Normally Closed, Hermetically Sealed

Thermistors

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Adder: | 725 | 725 | 725 | 725 | 725 | 725 | 725 | 725 | 725 | 725 | 725 | - | - | - |

Thermistors: Non-linear resistance temperature detector made from semiconductor material. Standard arrangement is Q-3 Positive Temperature Coefficient (PTC) Type on winding end-turns with leads brought out to the main Motor Conduit Box.

Available on Non-Hazardous Location Motors.
The following options are available: Thermistors (PTC Type), Siemens[®], 6 Leads Out

Therma-Sentry

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
|--------|------|------|------|------|------|------|------|------|------|---------|----------|----------|------|------|
| Adder: | 1740 | 1740 | 1740 | 1740 | 1820 | 1820 | 1820 | 1820 | 1820 | 1820 | 1820 | 1130 | 1130 | 1130 |

Therma-Sentry: Complete protection system consisting of three Thermistors and a solid state control module (shipped loose for Customer mounting). It will protect the motor for locked rotor, starting overload, running overload, abnormally high ambient temperatures, voltage unbalance, high or low voltages, ventilation failure, and single phasing.

Available on Non-Hazardous Location Motors.
The following options are available: Therma-Sentry, 115/230V, SMSE, Normally Closed Contact (SMSE = Separately Mounted, Separately Excited Control Module)

Thermocouples

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Adder: | 209 | 209 | 209 | 209 | 419 | 419 | 419 | 419 | 419 | 419 | 2417 | - | - | - |

Thermocouples: A pair of dissimilar conductors so joined at one point that an electromotive force is developed by the thermoelectric effects. Standard arrangement is addition of thermocouples to the winding end-turns with leads brought out to the main Motor Conduit Box.

Available on Non-Hazardous Location Motors
The following options are available: Thermocouples, Iron Constantan (Type J)

Thermal Protection, Bearings

Resistance Temperature Detectors (RTDs)

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Adder: | - | - | - | - | - | - | - | - | - | - | - | - | 2500 | - |

Resistance Temperature Detector (RTD): Precision, wire-wound resistors with a known temperature-resistance characteristic. Emerson does not furnish the monitor.

The following options are available: 120 Ohm, 2 Lead; 100 Ohm, 3 Lead

Tropicalization/High Moisture Protection

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Adder: | 242 | 242 | 242 | 242 | 354 | 354 | 354 | 354 | 612 | 612 | 612 | - | - | - |

Winding coated with Dolph polyurethane for superior protection in high moisture environments.

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Horizontal Motors Conversions & Accessories

Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Vector Encoder/Blower With Shroud Conversion

Blower

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|------|------|------|------|------|------|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 644 | 886 | 1047 | 1168 | 1450 | 1450 | 1450 | 2014 | 2658 | - | 2500 | - | - |

To convert a Hostile Duty Inverter Duty motor (Type CTI or JEI) to include a blower.

Encoder

| | | | | | | | | | | | | | | |
|--------|----|-----|------|------|------|------|------|------|------|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 999 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | - | 900 | - | - |

To convert a Hostile Duty Inverter Duty motor (Type CTI or JEI) to include an encoder.

Specify 1024 PPR or 2048 PPR on the order.

Bendix Connector

| | | | | | | | | | | | | | | |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 (DP) | 449 (TE) | 5000 | 5800 |
| Adder: | - | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | - | 50 | - | - |

To supply a 10-Pin Bendix Connector in place of the standard 9-Pin Sub-D Connector.

Specify Bendix (Code-X) 10-Pin Connector on the order.

Integral Horsepower Motor Type Code Identification Chart

| Type Code | Motor Description | Phase | Efficiency | Type Code | Motor Description | Phase | Efficiency |
|-----------|-------------------|-------------|-------------------|-----------|----------------------------|-------------|--------------------|
| CE | 841 PLUS® | Three Phase | Premium Efficient | JAD | Automotive Duty | Three Phase | Energy Efficient |
| CTE | Hostile Duty TEFC | Three Phase | Premium Efficient | JDE | Automotive Duty | Three Phase | Premium Efficient |
| CTI | Hostile Duty TEFC | Three Phase | Inverter Duty | TCE | Corro-Duty® TEFC | Three Phase | Premium Efficient |
| FCT | Hostile Duty TEFC | Three Phase | Energy Efficient | TCI | Corro-Duty® TEFC | Three Phase | Inverter Duty |
| FD, FR | Open Dripproof | Three Phase | Energy Efficient | UT | Unimount® TEFC | Three Phase | Standard Efficient |
| DE, RE | Open Dripproof | Three Phase | Premium Efficient | UTE | Unimount® TEFC | Three Phase | Premium Efficient |
| FUT | Unimount® TEFC | Three Phase | Energy Efficient | UTF | Unimount® TEFC Footless | Three Phase | Standard Efficient |