

LEESON JET PUMP MOTORS

SINGLE PHASE

JET PUMP MOTORS

General Specifications:

Stator impregnated with extra heavy varnish system. High temperature copper magnet wire provides extended motor life. "Super Hush" flow-through ventilation system (exhaust shaft-end) standard. Vertical or horizontal mounting (drip-cover available). Ground provision. Die cast aluminum NEMA 56 C face mounting flange, with cast iron bearing seat insert. Mechanical bearing lock—shaft-end, for longer life. Reliable, field proven, corrosion resistant rotating switch. High overload capacities provided by service factor. Neoprene shaft flinger on J frame motors protects bearings by repelling moisture and other contaminants.



Shaft Material:

Keyed shafts are made of carbon steel. Threaded shafts are 416 stainless steel. Shafts are CW rotation, facing lead end.

Bearings:

203 Double-sealed ball bearing, shaft-end; 203 Double-shielded ball bearing, switch-end. Shaft-end bearing is locked to limit axial movement of the shaft.

Terminal Board:

1/4" Quick connects (keyed shaft motors are reversible).

U.L. and C.S.A. Recognized:

Motor components (UL File No. E57948).

Class "B" insulation system (UL File No. E55555).

Thermal protector/winding combination (UL No. E57955) through 1HP C.S.A. listed through 1HP (Report No. LR33543).

SERVICE FACTORS FOR LEESON SINGLE PHASE JET PUMP MOTORS*

| HP | Drip-Proof Service Factor | TEFC Service Factor |
|-------|---------------------------|---------------------|
| 1/2 | 1.60 | 1.60 |
| 3/4 | 1.50 | 1.50 |
| 1 | 1.40 | 1.25 |
| 1 1/2 | 1.30 | 1.00 |
| 2 | 1.25 | 1.00 |
| 3 | 1.15 | — |

* Applies to general purpose motors only, not explosion-proof.

KEYED SHAFT • DRIP-PROOF SINGLE PHASE • LESS BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over-load Prot. | F.L. Amps 230V | "C" Dim. (Inches) |
|-------|-----------|------------|----------------|------------|------------|------------------|-------------|-----------------|----------------|-------------------|
| 1/2 | 3450 | S56C | 100204 | \$185 | A | 19 | 115/208-230 | Auto. | 3.4 | 9.49 |
| 3/4 | 3450 | S56C | 100205+ | 242 | A | 21 | 115/208-230 | Auto. | 5.1 | 9.99 |
| 1 | 3450 | S56C | 100722+ | 261 | A | 24 | 115/208-230 | Auto. | 5.7 | 10.49 |
| 1 1/2 | 3450 | 56C | 110288 | 343 | A | 31 | 115/208-230 | Auto. | 9.0 | 11.38 |
| 2 | 3450 | 56C | 110289 | 443 | A | 37 | 115/208-230 | Auto. | 10.5 | 12.38 |
| 3 | 3450 | 56C | 110280☆ | 452 | A | 49 | 230 | Auto. | 13.6 | 13.69 |

THREADED SHAFT • DRIP-PROOF SINGLE PHASE • LESS BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over-load Prot. | F.L. Amps 230V | "C" Dim. (Inches) |
|-------|-----------|------------|----------------|------------|------------|------------------|-------------|-----------------|----------------|-------------------|
| 1/2 | 3450 | S56J | 100207+ | \$176 | A | 19 | 115/208-230 | Auto. | 3.4 | 10.00 |
| 3/4 | 3450 | S56J | 100208+ | 231 | A | 21 | 115/208-230 | Auto. | 5.1 | 10.50 |
| 1 | 3450 | S56J | 100723+ | 241 | A | 23 | 115/208-230 | Auto. | 5.7 | 11.00 |
| 1 1/2 | 3450 | 56J | 110292+ | 336 | A | 31 | 115/208-230 | Auto. | 9.0 | 11.88 |
| 2 | 3450 | 56J | 110293+ | 414 | A | 37 | 115/208-230 | Auto. | 10.5 | 12.38 |
| 3 | 3450 | 56J | 110286☆+ | 427 | A | 51 | 230 | Auto. | 13.6 | 13.68 |

THREADED SHAFT • TEFC SINGLE PHASE • LESS BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over-load Prot. | F.L. Amps 230V | "C" Dim. (Inches) |
|-------|-----------|------------|----------------|------------|------------|------------------|-------------|-----------------|----------------|-------------------|
| 1/2 | 3450 | 56J | 113955+ | \$208 | A | 22 | 115/208-230 | Auto. | 3.6 | 11.31 |
| 3/4 | 3450 | 56J | 113956+ | 247 | A | 26 | 115/208-230 | Auto. | 5.0 | 11.81 |
| 1 | 3450 | 56J | 113639+ | 302 | A | 30 | 115/208-230 | Auto. | 6.0 | 12.31 |
| 1 1/2 | 3450 | 56J | 113640+ | 359 | A | 34 | 115/208-230 | Auto. | 8.5 | 12.81 |
| 2 | 3450 | 56J | 113641+ | 425 | A | 41 | 115/208-230 | Auto. | 10.0 | 13.81 |

THREADED SHAFT • TEFC SINGLE PHASE • WITH BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over-load Prot. | F.L. Amps 230V | "C" Dim. (Inches) |
|-------|-----------|------------|----------------|------------|------------|------------------|-------------|-----------------|----------------|-------------------|
| 1/2 | 3450 | 56J | 113637+ | \$240 | A | 23 | 115/208-230 | Auto. | 3.6 | 11.31 |
| 3/4 | 3450 | 56J | 113638+ | 256 | A | 26 | 115/208-230 | Auto. | 5.0 | 11.81 |
| 1 | 3450 | 56J | 113957+ | 309 | A | 28 | 115/208-230 | Auto. | 6.0 | 12.31 |
| 1 1/2 | 3450 | 56J | 113958+ | 367 | A | 34 | 115/208-230 | Auto. | 8.5 | 12.81 |
| 2 | 3450 | 56J | 113959+ | 433 | A | 43 | 115/208-230 | Auto. | 10.0 | 13.81 |

THREADED SHAFT • EXPLOSION PROOF • TEFC SINGLE PHASE • C-FACE LESS BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over-load Prot. | F.L. Amps 230V | "C" Dim. (Inches) |
|-------|-----------|------------|----------------|------------|------------|------------------|-------------|-----------------|----------------|-------------------|
| 1/2 | 3450 | 56J | 116188 | \$403 | A | 35 | 115/208-230 | Auto. | 3.6 | 13.96 |
| 3/4 | 3450 | 56J | 116186 | 452 | A | 40 | 115/208-230 | Auto. | 5.0 | 14.46 |
| 1 | 3450 | 56J | 116185 | 485 | A | 49 | 115/208-230 | Auto. | 6.0 | 14.96 |
| 1 1/2 | 3450 | 56J | 116183 | 622 | A | 52 | 115/208-230 | Auto. | 8.5 | 15.46 |
| 2 | 3450 | 56J | 116181 | 677 | A | 54 | 115/208-230 | Auto. | 10.5 | 16.46 |

+ These motors are fixed rotation—CW from lead end.

☆ Capacitor start/capacitor run designed for reduced amperage, others are capacitor start/induction run.

SEE FHP SINGLE PHASE JET PUMP MOTORS ON PAGE 43

JET PUMP MOTORS

General Specifications:

Rugged, three phase jet pump motors for industrial service. NEMA 56 C face. Stator impregnated with heavy varnish system. High temperature copper magnet wire for high overload capacity. Grounding provision inside oversized gasketed conduit box. 380 alloy aluminum endplate with cast bearing seat insert. Neoprene shaft flinger to repel moisture and other contaminants. Mechanical bearing lock, shaft end, controls axial movement. UL and CSA recognized design (UL file No. E57948).



Shaft Material:

303 stainless steel, threaded.

Bearings:

203 Double-sealed ball bearing, shaft-end; 203 Double-shielded ball bearing, switch-end. Shaft-end bearing is locked to limit axial movement of the shaft.

Electrical Specifications:

Explosion-proof motors have automatic overload protection. Others have no thermal overload protection.

DRIP-COVER KITS

Each kit includes one drip-cover. Designed to protect motors from rain, snow and ice when mounted outdoors in a vertical position.



FOR DRIP-PROOF MOTORS

| Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) |
|-----------------|-----------------|------------|------------|------------------|
| 48-S56 | 175003 | \$26 | A | 2 |
| 48-S56 | 175298 ◆ | 26 | A | 2 |
| 56 143T-145T | 175004 | 29 | A | 2 |

◆ For use with motors having "P" suffix on date code.

**THREADED SHAFT • DRIP-PROOF
THREE PHASE • LESS BASE**

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | F.L. Amps 230V | % F.L. Eff. | "C" Dim. (Inches) |
|-----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|----------------------|-------------------|-------------------------|
| 1/3 | 3450 | S56J | 102197 | \$186 | A | 15 | 208-230/460 | 1.4 | 68.0 | 9.94 |
| 1/2 | 3450 | S56J | 102198 | 195 | A | 17 | 208-230/460 | 1.8 | 69.0 | 9.94 |
| 3/4 | 3450 | S56J | 101637 | 233 | A | 18 | 208-230/460 | 2.4 | 79.0 | 10.44 |
| 1 | 3450 | S56J | 101638 | 259 | A | 25 | 208-230/460 | 3.0 | 78.0 | 11.44 |
| 1½ | 3450 | 56J | 113891 | 310 | A | 28 | 208-230/460 | 4.2 | 82.1 | 11.38 |
| 2 | 3450 | 56J | 113892 | 368 | A | 33 | 208-230/460 | 5.6 | 82.9 | 11.88 |
| 3 | 3450 | 56J | 113893 | 436 | A | 33 | 208-230/460 | 8.0 | 80.0 | 12.88 |

**THREADED SHAFT • DRIP-PROOF
THREE PHASE • WITH BASE**

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | F.L. Amps 230V | % F.L. Eff. | "C" Dim. (Inches) |
|-----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|----------------------|-------------------|-------------------------|
| 1/2 | 3450 | S56J | 102199 | \$204 | A | 17 | 208-230/460 | 1.8 | 69.0 | 9.94 |
| 3/4 | 3450 | S56J | 101776 | 233 | A | 18 | 208-230/460 | 2.4 | 79.0 | 10.44 |
| 1 | 3450 | S56J | 101775 | 260 | A | 26 | 208-230/460 | 3.0 | 78.0 | 11.44 |
| 1½ | 3450 | 56J | 114203 | 318 | A | 33 | 208-230/460 | 4.2 | 82.1 | 11.38 |
| 2 | 3450 | 56J | 114202 | 378 | A | 35 | 208-230/460 | 5.6 | 82.9 | 11.88 |
| 3 | 3450 | 56HJ | 114201 | 448 | A | 35 | 208-230/460 | 8.0 | 80.0 | 12.88 |

**THREADED SHAFT • TEFC
THREE PHASE • LESS BASE**

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | F.L. Amps 230V | % F.L. Eff. | "C" Dim. (Inches) |
|-----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|----------------------|-------------------|-------------------------|
| 1/2 | 3450 | 56J | 114931 | \$220 | A | 21 | 208-230/460 | 2.0 | 67.0 | 10.81 |
| 3/4 | 3450 | 56J | 114208 | 242 | A | 22 | 208-230/460 | 2.4 | 72.0 | 11.31 |
| 1 | 3450 | 56J | 114207 | 288 | A | 25 | 208-230/460 | 3.2 | 77.1 | 11.31 |
| 1½ | 3450 | 56J | 114206 | 299 | A | 31 | 208-230/460 | 4.2 | 80.3 | 12.31 |
| 2 | 3450 | 56J | 114205 | 379 | A | 40 | 208-230/460 | 5.6 | 78.8 | 12.81 |
| 3 | 3450 | 56J | 114204 | 412 | A | 52 | 208-230/460 | 8.0 | 80.0 | 13.31 |

**THREADED SHAFT • TEFC
THREE PHASE • WITH BASE**

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | F.L. Amps 230V | % F.L. Eff. | "C" Dim. (Inches) |
|-----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|----------------------|-------------------|-------------------------|
| 3/4 | 3450 | 56J | 113028 | \$292 | A | 23 | 208-230/460 | 2.4 | 72.0 | 11.31 |
| 1 | 3450 | 56J | 113029 | 296 | A | 24 | 208-230/460 | 3.2 | 77.1 | 11.31 |
| 1½ | 3450 | 56J | 113030 | 306 | A | 31 | 208-230/460 | 4.2 | 80.3 | 12.31 |
| 2 | 3450 | 56J | 113031 | 385 | A | 36 | 208-230/460 | 5.6 | 78.8 | 12.81 |
| 3 | 3450 | 56HJ | 113032 | 419 | A | 39 | 208-230/460 | 8.0 | 80.0 | 13.31 |

**THREADED SHAFT • EXPLOSION PROOF •
TEFC/TENV THREE PHASE • C-FACE LESS BASE**

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | F.L. Amps 230V | % F.L. Eff. | "C" Dim. (Inches) |
|-----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|----------------------|-------------------|-------------------------|
| 1/2 | 3450 | 56J | 116187 ▲● | \$496 | A | 33 | 208-230/460 | 1.5 | 76.0 | 12.87 |
| 1 | 3450 | 56J | 116184 ▲ | 535 | A | 33 | 208-230/460 | 3.6 | 77.1 | 13.46 |
| 1½ | 3450 | 56J | 116182 ▲ | 547 | A | 48 | 208-230/460 | 4.6 | 80.3 | 14.46 |
| 2 | 3450 | 56J | 116180 ▲ | 573 | A | 50 | 208-230/460 | 6.2 | 78.8 | 14.96 |

▲ These motors are satisfactory for operation on 50 Hz power supply at full rated horsepower.
● These motors are totally enclosed, non-ventilated—Others are fan cooled.

LEESON® SWIMMING POOL PUMP MOTORS

SINGLE PHASE

COMMERCIAL DUTY SWIMMING POOL MOTORS



General Specifications:

Cast iron NEMA 56 C face mounting face or aluminum as noted. Mechanical bearing lock—shaft-end. Fully enclosed endbell at switch-end. Protected “double contact” starting switch with dual contact switch circuit providing maximum starting dependability. Reliable, field proven, corrosion resistant rotating switch. Stator impregnated with extra heavy varnish system. High temperature copper magnet wire providing extended motor life. “Low voltage” run capabilities. “Super Hush” flow-through ventilation system (exhaust shaft-end). Gaskets supplied under conduit cover and capacitor case giving added environmental protection. 1/2" NPT pipe tap supplied in “built-in” conduit box. Grounding provisions inside terminal panel plus external provision. High overload capacities provided by service factor.

Shaft Material:

Keyed shafts are made of carbon steel. Threaded shafts are 303 stainless steel. Shafts are CW rotation, facing lead end.

Bearings:

304 Double-sealed ball bearing, shaft-end; 203 Double-shielded ball bearing, switch-end.

Terminal Boards:

¼" quick connects (keyed shaft motors are reversible).

U.L. and C.S.A. Recognized:

Motor components (UL File No. #57948).

Class “B” insulation system (UL File No. E55555).

Thermal protector/winding combination (UL No. E56955)

through 1HP. C.S.A. listed through 1HP (Report No. LR33543).

SERVICE FACTORS FOR SWIMMING POOL MOTORS

| HP | Service Factor |
|-----|----------------|
| 1/2 | 1.60 |
| 3/4 | 1.50 |
| 1 | 1.40 |
| 1½ | 1.30 |
| 2 | 1.25 |
| 3 | 1.15 |

KEYED SHAFT • ALUMINUM C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over- load Prot. | F.L. Amps 230V | “C” Dim. (Inches) |
|-----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|------------------------|----------------------|-------------------------|
| 1/2 | 3450 | S56C | 101524 | \$181 | A | 19 | 115/208-230 | Auto. | 3.4 | 10.05 |
| 3/4 | 3450 | S56C | 101525 | 210 | A | 22 | 115/208-230 | Auto. | 5.1 | 10.55 |
| 1 | 3450 | S56C | 101526 | 233 | A | 25 | 115/208-230 | Auto. | 5.7 | 11.05 |
| 1½ | 3450 | 56C | 113686 | 300 | A | 30 | 115/208-230 | Auto. | 9.0 | 12.19 |

KEYED SHAFT • CAST IRON C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over- load Prot. | F.L. Amps 230V | “C” Dim. (Inches) |
|-----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|------------------------|----------------------|-------------------------|
| 1/2 | 3450 | 56C | 110278 | \$212 | A | 24 | 115/208-230 | Auto. | 4.2 | 10.69 |
| 3/4 | 3450 | 56C | 110241 | 266 | A | 29 | 115/208-230 | Auto. | 5.2 | 11.19 |
| 1 | 3450 | 56C | 110242 | 286 | A | 31 | 115/208-230 | Auto. | 7.1 | 11.19 |
| 1½ | 3450 | 56C | 110243 | 370 | A | 36 | 115/208-230 | Auto. | 9.0 | 11.69 |
| 2 | 3450 | 56C | 110279 | 415 | A | 40 | 115/208-230 | Auto. | 10.5 | 12.69 |
| 3 | 3450 | 56C | 110280☆ | 452 | A | 49 | 230 | Auto. | 13.6 | 13.69 |

THREADED SHAFT • ALUMINUM C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over- load Prot. | F.L. Amps 230V | “C” Dim. (Inches) |
|-----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|------------------------|----------------------|-------------------------|
| 1/2 | 3450 | S56J | 101527+ | \$188 | A | 20 | 115/208-230 | Auto. | 3.4 | 10.56 |
| 3/4 | 3450 | S56J | 101528+ | 216 | A | 23 | 115/208-230 | Auto. | 5.1 | 11.06 |
| 1 | 3450 | S56J | 101529+ | 238 | A | 24 | 115/208-230 | Auto. | 5.7 | 11.56 |
| 1½ | 3450 | 56J | 113687+ | 307 | A | 30 | 115/208-230 | Auto. | 9.0 | 12.19 |

THREADED SHAFT • CAST IRON C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over- load Prot. | F.L. Amps 230V | “C” Dim. (Inches) |
|-----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|------------------------|----------------------|-------------------------|
| 1/2 | 3450 | 56J | 110281+ | \$216 | A | 25 | 115/208-230 | Auto. | 4.2 | 11.19 |
| 3/4 | 3450 | 56J | 110282+ | 239 | A | 30 | 115/208-230 | Auto. | 5.2 | 11.69 |
| 1 | 3450 | 56J | 110283+ | 269 | A | 31 | 115/208-230 | Auto. | 7.1 | 11.69 |
| 1½ | 3450 | 56J | 110284+ | 344 | A | 36 | 115/208-230 | Auto. | 9.0 | 12.19 |
| 2 | 3450 | 56J | 110285+ | 417 | A | 41 | 115/208-230 | Auto. | 10.5 | 13.19 |
| 3 | 3450 | 56J | 110286☆+ | 427 | A | 51 | 230 | Auto. | 13.6 | 14.19 |

+ Threaded shaft are fixed rotation—CW from lead end.

☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.

POOL AND JET PUMP MOTORS ROUND FLANGE AND SQUARE FLANGE



PERFORMA + FHP POOL AND JET PUMP MOTORS

FEATURES:

- PSC design - no internal switches
- Non-reversible
- 50°C ambient
- Rotation CCW facing shaft end
- Automatic thermal protector
- Double sealed precision ball bearings
- 304 stainless shaft, all models
- External grounding lug
- Class F insulation with Class B temperature rise
- Separate compartment "1081" design
- Complies with UL1081 water spray test
- UL & CSA recognized

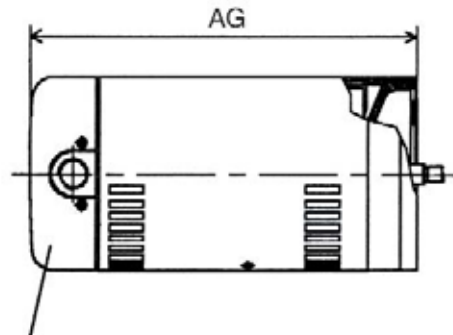


ROUND FLANGE • OPEN DRIP PROOF • NEMA 56C OR 56J KEYED OR THREADED SHAFT

| HP | RPM | Volts | Amps | S.F. | Frame | Catalogue Number | List Price | Disc Sym. | Shaft | Approx. "AG" | Wgt. (lbs.) |
|-------|------|---------|----------|------|-------|------------------|------------|-----------|----------|--------------|-------------|
| 1/2 | 3450 | 115/230 | 9.2/4.6 | 1.95 | 56C | MK1052 | \$171 | A | Keyed | 9.7 | 26 |
| | 3450 | 115/230 | 9.2/4.6 | 1.95 | 56J | MT1052 | 171 | A | Threaded | 9.7 | 26 |
| 3/4 | 3450 | 115/230 | 10.6/5.3 | 1.65 | 56C | MK1072 | 203 | A | Keyed | 9.7 | 27 |
| | 3450 | 115/230 | 10.6/5.3 | 1.65 | 56J | MT1072 | 203 | A | Threaded | 9.7 | 27 |
| 1 | 3450 | 115/230 | 11.5/5.8 | 1.5 | 56C | MK1102 | 225 | A | Keyed | 10.7 | 29 |
| | 3450 | 115/230 | 11.5/5.8 | 1.5 | 56J | MT1102 | 225 | A | Threaded | 10.7 | 29 |
| 1 1/2 | 3450 | 230 | 7.6 | 1.4 | 56C | MK1152 | 268 | A | Keyed | 11.7 | 37 |
| | 3450 | 230 | 7.6 | 1.4 | 56J | MT1152 | 268 | A | Threaded | 11.7 | 37 |
| 2 | 3450 | 230 | 10.3 | 1.15 | 56C | MK1202 | 321 | A | Keyed | 11.7 | 37 |
| | 3450 | 230 | 10.3 | 1.15 | 56J | MT1202 | 321 | A | Threaded | 11.7 | 37 |

SQUARE FLANGE • OPEN DRIP PROOF • NEMA 56J THREADED SHAFT

| HP | RPM | Volts | Amps | S.F. | Frame | Catalogue Number | List Price | Disc Sym. | Shaft | Approx. "AG" | Wgt. (lbs.) |
|-------|------|---------|----------|------|-------|------------------|------------|-----------|----------|--------------|-------------|
| 1/2 | 3450 | 115/230 | 9.2/4.6 | 1.95 | 56Y | MST1052 | \$171 | A | Threaded | 9.7 | 26 |
| 3/4 | 3450 | 115/230 | 10.6/5.3 | 1.65 | 56Y | MST1072 | 203 | A | Threaded | 9.7 | 27 |
| | 3450 | 115/230 | 11.5/5.8 | 1.5 | 56Y | MST1102 | 225 | A | Threaded | 10.7 | 29 |
| 1 1/2 | 3450 | 230 | 7.6 | 1.4 | 56Y | MST1152 | 268 | A | Threaded | 11.7 | 37 |
| 2 | 3450 | 230 | 10.3 | 1.15 | 56Y | MST1202 | 321 | A | Threaded | 11.7 | 37 |



Easy access to capacitor, thermal protector, and wiring in separate watertight compartment.

JP PUMP MOTORS



General Specifications:

For use with close-coupled pumps having NEMA JP mounting and shaft dimensions. In such applications, the pump impeller is mounted directly on the motor shaft. Designed for continuous duty service. All motors listed are 1.15 Service Factor.

Mechanical Features:

Open drip-proof construction with rigid base mounting. Locked bearing on shaft end limits axial shaft movement. For use where the environment is relatively clean and dry. For outdoor use, an enclosure or drip cover may be preferred. See the Drip Cover Kit table. Some 182-4JP frame motors have enclosed endshields as standard with frame meeting the 12° drip-proof requirement. No drip cover is needed, or shown in the table, for these motors.

Electrical Features:

UL Recognized and CSA Certified. Single phase designs are capacitor start, induction run.

SINGLE PHASE • DRIP-PROOF • RIGID BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over load Prot. | F.L. Amps 230V | "C" Dim. (Inches) | Drip Cover Kit Ref. |
|----|-----------------|---------------|-------------------|---------------|---------------|------------------------|---------|-----------------------|----------------------|-------------------------|---------------------------|
| 5 | 3450 | 184JP | 131881 | \$730 | B | 92 | 230 | None | 22.0 | 19.38 | ... |
| 7½ | 3450 | 213JP | 140646 | 867 | B | 140 | 230 | None | 37.0 | 14.17 | C |
| 10 | 3450 | 215JP | 140647 | 1172 | B | 157 | 230 | None | 47.0 | 15.67 | C |

THREE PHASE • DRIP-PROOF • RIGID BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | % F.L. Eff. | F.L. Amps 230V | "C" Dim. (Inches) | Drip Cover Kit Ref. |
|----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|-------------------|----------------------|-------------------------|---------------------------|
| 1½ | 1725 | 145JP | 121846 | \$242 | B | 35 | 208-230/460 | 80.0 | 4.8 | 16.18 | A |
| 2 | 1725 | 145JP | 121847 | 252 | B | 39 | 208-230/460 | 81.5 | 6.2 | 17.18 | A |
| 3 | 3450 | 145JP | 121849 | 318 | B | 37 | 208-230/460 | 84.0 | 8.9 | 16.68 | A |
| | 1725 | 182JP | 131882†* | 330 | B | 52 | 208-230/460 | 80.0 | 10.0 | 16.88 | ... |
| 5 | 3450 | 182JP | 131884 | 381 | B | 55 | 208-230/460 | 82.5 | 13.2 | 17.88 | ... |
| | 1725 | 182JP | 131883 | 379 | B | 64 | 208-230/460 | 84.0 | 14.2 | 17.38 | ... |
| 7½ | 3450 | 184JP | 131885 | 458 | B | 78 | 208-230/460 | 84.0 | 18.4 | 18.88 | ... |
| | 1760 | 213JP | 140667 | 624 | B | 96 | 208-230/460 | 88.5 | 20.0 | 20.76 | D |
| 10 | 3450 | 213JP | 140655 | 588 | B | 136 | 208-230/460 | 85.5 | 27.6 | 22.18 | C |
| | 1760 | 215JP | 140668 | 714 | B | 125 | 208-230/460 | 89.5 | 28.0 | 21.76 | D |
| 15 | 3450 | 215JP | 140656 | 728 | B | 117 | 208-230/460 | 86.5 | 42.0 | 23.68 | C |
| | 1760 | 254JP | 801051 | 883 | B | 155 | 208-230/460 | 87.5 | 43.0 | 25.29 | ... |
| 20 | 3500 | 254JP | 801056 | 918 | B | 159 | 208-230/460 | 88.5 | 52.6 | 25.29 | ... |
| | 1760 | 256JP | 801052 | 1066 | B | 210 | 208-230/460 | 88.5 | 56.4 | 27.04 | ... |
| 25 | 3525 | 256JP | 801057 | 1080 | B | 166 | 208-230/460 | 89.5 | 66.0 | 27.04 | ... |
| | 1760 | 284JP | 801053 | 1433 | C | 306 | 230/460 | 87.5 | 66.0 | 27.18 | ... |
| 30 | 3525 | 284JP | 801058 | 1440 | C | 315 | 230/460 | 88.5 | 73.0 | 27.18 | ... |
| | 1760 | 286JP | 801054 | 1488 | C | 320 | 230/460 | 89.5 | 79.0 | 28.68 | ... |
| 40 | 3550 | 286JP | 801059 | 1647 | C | 360 | 230/460 | 88.5 | 100.0 | 28.68 | ... |
| | 1760 | 324JP | 801055 | 1895 | C | 491 | 230/460 | 93.0 | 97.0 | 29.12 | ... |
| 50 | 3550 | 324JP | 801060 | 2108 | C | 450 | 230/460 | 89.5 | 124.0 | 29.12 | ... |

† Class F insulated.

* F1 mounting only.

DRIP COVER KITS FOR JP PUMP MOTORS

| Kit Ref. | Frame | Catalog Number | Enclosure | List Price |
|----------|-------------|----------------|-------------|------------|
| A | 56-145JP | 175932 | ODP or TEFC | \$16 |
| B | 182JP-184JP | 175933 | ODP | 18 |
| C | 213JP-215JP | 175305 | ODP | 51 |
| D | 213JP-215JP | 175846 | ODP | 51 |

QUICK REFERENCE

| | |
|--------------------------|---------|
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SHADED FRAME INDICATES CAST IRON CONSTRUCTION

JM PUMP MOTORS

General Specifications:

Designed for continuous duty service on close-coupled pumps using NEMA JM mounting provisions. All motors have a rigid mounting base and NEMA JM pump shaft.



Mechanical Features:

Open drip-proof construction, cooling air exhausts at the shaft end for maximum cooling. Oversized locked bearing on shaft end limits axial shaft movement. Drip covers are available as accessory kits for 143-5JM and 182-4JM motors—see letter designations in the table on page 46 for the correct kit. Some 182-4JM frame motors have enclosed endshields as standard with frame vents meeting the 12° drip-proof requirement. No drip cover is needed, or shown in the table, for these motors.

Electrical Features:

High efficiency copper windings with NEMA 1.15 service factors. UL and CSA recognized designs. Single phase designs are capacitor start/induction run unless indicated otherwise.

SINGLE PHASE • DRIP-PROOF • RIGID BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | Over- load Prot. | F.L. Amps 230V | "C" Dim. (Inches) | Drip Cover Kit Ref. |
|----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|------------------------|----------------------|-------------------------|---------------------------|
| 1 | 1740 | 143JM | 120996 | \$421 | B | 42 | 115/208-230 | None | 6.4 | 14.41 | A |
| 1½ | 1740 | 145JM | 120994 | 425 | B | 45 | 115/208-230 | None | 8.6 | 15.41 | A |
| 2 | 3450 | 145JM | 121190 | 435 | B | 47 | 115/208-230 | None | 10.5 | 16.41 | A |
| | 1740 | 145JM | 120995 | 427 | B | 45 | 115/208-230 | None | 10.5 | 15.41 | A |
| 3 | 3450 | 182JM | 131640 | 516 | B | 80 | 115/208-230 | None | 15.2 | 16.32 | C |
| | 1760 | 182JM | 131604 | 591 | B | 73 | 230 | None | 16.8 | 15.82 | C |
| 5 | 3450 | 184JM | 131641 | 730 | B | 95 | 115/208-230 | None | 24.0 | 17.32 | C |
| | 1760 | 184JM | 131605 | 841 | B | 82 | 230 | None | 21.0 | 16.32 | C |
| 7½ | 3450 | 213JM | 140642 | 1041 | B | 140 | 230 | None | 37.0 | 14.17 | E |
| | 1760 | 215JM | 140665 | 1109 | B | 141 | 230 | None | 40.5 | 18.38 | E |
| 10 | 3450 | 215JM | 140644 | 1172 | B | 144 | 230 | None | 47.0 | 18.38 | E |
| | 1760 | 215JM | 140666 | 1372 | B | 144 | 230 | None | 43.0 | 19.88 | E |

☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.

THREE PHASE • DRIP-PROOF • RIGID BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | F.L. Amps 230V | % F.L. Eff. | "C" Dim. (Inches) | Drip Cover Kit Ref. |
|----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|----------------------|-------------------|-------------------------|---------------------------|
| 1 | 1740 | 143JM | 121850 | \$247 | B | 29 | 208-230/460 | 3.5 | 77.0 | 13.12 | B |
| 1½ | 1740 | 145JM | 121851 | 267 | B | 32 | 208-230/460 | 4.8 | 80.0 | 13.12 | B |
| 2 | 3450 | 145JM | 121853 | 309 | B | 30 | 208-230/460 | 6.4 | 80.0 | 13.12 | B |
| | 1740 | 145JM | 121852 | 278 | B | 37 | 208-230/460 | 6.2 | 81.5 | 14.12 | B |
| 3 | 3450 | 145JM | 121854 | 342 | B | 35 | 208-230/460 | 8.9 | 84.0 | 13.62 | B |
| | 1760 | 182JM | 131562 | 367 | B | 66 | 208-230/460 | 8.8 | 84.0 | 13.82 | ... |
| 5 | 3450 | 182JM | 131574 | 452 | B | 84 | 208-230/460 | 12.6 | 85.5 | 14.82 | ... |
| | 1760 | 184JM | 131563 | 423 | B | 88 | 208-230/460 | 13.4 | 86.0 | 14.82 | ... |
| 7½ | 3450 | 184JM | 131576 | 511 | B | 92 | 208-230/460 | 18.0 | 86.5 | 15.82 | ... |
| | 1760 | 213JM | 140618 | 624 | B | 140 | 208-230/460 | 20.0 | 88.5 | 16.88 | F |
| 10 | 3450 | S213JM | 131577 | 657 | B | 96 | 208-230/460 | 25.0 | 82.5 | 16.82 | C |
| | 1760 | 215JM | 140619 | 714 | B | 181 | 208-230/460 | 28.0 | 89.5 | 17.88 | F |
| 15 | 3450 | 215JM | 151380 | 794 | C | 178 | 208-230/460 | 36.0 | 86.8 | 19.84 | H |
| | 1740 | 254JM | 151361 | 907 | C | 254 | 208-230/460 | 39.0 | 90.0 | 22.87 | I |
| 20 | 3450 | 254JM | 151381 | 918 | C | 276 | 208-230/460 | 48.0 | 90.0 | 22.87 | I |
| | 1740 | 256JM | 151362 | 1066 | C | 312 | 208-230/460 | 50.0 | 91.0 | 24.53 | I |
| 25 | 3450 | 256JM | 151382 | 1080 | C | 318 | 208-230/460 | 62.0 | 89.3 | 24.53 | I |
| | 1740 | 284JM | 801028 | 1420 | C | 303 | 230/460 | 66.0 | 87.5 | 24.31 | ... |
| 30 | 3450 | 284JM | 801040 | 1435 | C | 325 | 230/460 | 73.0 | 88.5 | 24.31 | ... |
| | 1740 | 286JM | 801029 | 1488 | C | 350 | 230/460 | 79.0 | 89.5 | 25.81 | ... |
| 40 | 3450 | 286JM | 801041 | 1647 | C | 627 | 230/460 | 100.0 | 88.5 | 25.81 | ... |
| | 1740 | 324JM | 801030 | 1945 | C | 386 | 230/460 | 106.0 | 89.5 | 26.25 | ... |
| 50 | 3450 | 324JM | 801042 | 2239 | C | 433 | 230/460 | 124.0 | 89.5 | 29.12 | ... |

SEE PAGE 46 FOR DRIP COVER KITS

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

LEESON[®] JM PUMP MOTORS

THREE PHASE

JM PUMP MOTORS

General Specifications:

Designed for continuous duty service on close-coupled pumps using NEMA JM mounting provisions. All motors have a rigid mounting base and NEMA JM pump shaft.



Mechanical Features:

Totally enclosed fan cooled construction for maximum life in dirty or severe environments. Oversized locked bearing on shaft end limits axial shaft movement. Drip covers are available as accessory kits for 143-5JM and 182-4JM motors—see letter designations in the table for the correct kit. Some 182-4JM frame motors have enclosed endshields as standard with frame vents meeting the 12° drip-proof requirement. No drip cover is needed, or shown in the table, for these motors.

Electrical Features:

High efficiency copper windings with NEMA 1.15 service factors. UL and CSA recognized designs.

WASHGUARD[®] JM PUMP MOTORS

General Specifications:

Standard NEMA JM pump motor design with the addition of LEESON's trusted WASHGUARD[®], design. Designed for service in washdown-duty environments where moisture exclusion and corrosion resistance is required for long service life.



Mechanical Specifications:

Refer to the detail of mechanical features as shown in the Washguard, section of this catalog.

Electrical Features:

All ratings are TEFC design with class F insulation, and 1.15 Service Factor. UL and CSA recognized designs with IRIS™ insulation on all ratings.

THREE PHASE • TEFC • RIGID BASE

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | F.L. Amps 230V | % F.L. Eff. | "C" Dim. (Inches) | Drip Cover Kit Ref. |
|----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|----------------------|-------------------|-------------------------|---------------------------|
| 1 | 1740 | 143JM | 121855 | \$275 | B | 30 | 208-230/460 | 3.6 | 77.0 | 14.50 | B |
| 1½ | 3450 | 143JM | 121858 | 277 | B | 31 | 208-230/460 | 4.6 | 80.0 | 14.50 | B |
| | 1740 | 145JM | 121856 | 301 | B | 35 | 208-230/460 | 4.8 | 80.0 | 14.50 | B |
| 2 | 3450 | 145JM | 121859 | 340 | B | 33 | 208-230/460 | 6.0 | 80.0 | 14.50 | B |
| | 1740 | 145JM | 121857 | 300 | B | 43 | 208-230/460 | 5.8 | 82.5 | 16.00 | B |
| 3 | 3450 | 145JM | 121860 | 360 | B | 42 | 208-230/460 | 7.6 | 84.0 | 16.00 | B |
| | 1760 | 182JM | 131579 | 366 | B | 67 | 230/460 | 8.8 | 84.0 | 15.59 | D |
| 5 | 3450 | 184JM | 131580 | 490 | B | 80 | 208-230/460 | 12.4 | 85.5 | 15.59 | D |
| | 1760 | 184JM | 131581 | 477 | B | 89 | 230/460 | 13.4 | 86.0 | 15.59 | D |
| 7½ | 3450 | 184JM | 131582 | 543 | B | 96 | 208-230/460 | 18.4 | 86.5 | 16.59 | D |
| | 1760 | 215JM | 140622 | 618 | B | 117 | 208-230/460 | 20.4 | 89.5 | 18.84 | G |
| 10 | 3450 | S213JM | 131583 | 727 | B | 100 | 208-230/460 | 26.2 | 82.5 | 18.59 | D |
| | 1760 | 215JM | 140623 | 781 | B | 136 | 208-230/460 | 26.0 | 89.5 | 19.84 | G |
| 15 | 3450 | 254JM | 151567 | 1132 | C | 245 | 208-230/460 | 35.0 | 90.2 | 23.80 | ... |
| | 1760 | 254JM | 151568 | 1102 | C | 277 | 208-230/460 | 36.6 | 91.0 | 23.80 | ... |
| 20 | 3450 | 254JM | 151569 | 1236 | C | 285 | 208-230/460 | 46.2 | 90.2 | 23.80 | ... |
| | 1760 | 254JM | 151570 | 1337 | C | 321 | 208-230/460 | 48.2 | 91.0 | 25.50 | ... |

WASHGUARD[®] THREE PHASE • TEFC • JM PUMP

| HP | RPM 60 Hz | NEMA Frame | Catalog Number | List Price | Disc. Sym. | App. Wgt. (lbs.) | Voltage | F.L. Amps 230V | % F.L. Eff. | "C" Dim. (Inches) |
|----|-----------------|---------------|-------------------|---------------|---------------|------------------------|-------------|----------------------|-------------------|-------------------------|
| 1 | 1725 | 143JM | 121579 | \$596 | B | 37 | 208-230/460 | 3.1 | 82.5 | 15.75 |
| 1½ | 3450 | 143JM | 121580 | 642 | B | 46 | 208-230/460 | 4.0 | 82.5 | 15.75 |
| | 1725 | 145JM | 121581 | 660 | B | 53 | 208-230/460 | 4.4 | 84.0 | 15.75 |
| 2 | 3450 | 145JM | 121582 | 727 | B | 47 | 208-230/460 | 5.2 | 84.0 | 15.75 |
| | 1725 | 145JM | 121583 | 681 | B | 49 | 208-230/460 | 6.0 | 84.0 | 16.75 |
| 3 | 3450 | 145JM | 121584 | 781 | B | 45 | 208-230/460 | 7.6 | 85.5 | 16.25 |
| | 1760 | 182JM | 131967 | 866 | B | 79 | 208-230/460 | 8.2 | 87.5 | 16.13 |
| 5 | 3450 | 184JM | 131968 | 1034 | B | 78 | 208-230/460 | 12.0 | 87.5 | 16.13 |
| | 1760 | 184JM | 131969 | 938 | B | 81 | 208-230/460 | 13.0 | 87.5 | 16.63 |
| 7½ | 3450 | 184JM | 131970 | 1134 | B | 110 | 208-230/460 | 16.8 | 88.5 | 17.63 |
| | 1740 | 213JM | 140733 | 1265 | B | 133 | 208-230/460 | 20.4 | 89.5 | 19.00 |
| 10 | 3450 | 215JM | 140734 | 1558 | B | 127 | 208-230/460 | 24.0 | 89.5 | 21.70 |
| | 1740 | 215JM | 140735 | 1472 | B | 142 | 208-230/460 | 26.0 | 89.5 | 20.00 |
| 15 | 3450 | 215JM | 140736 | 1782 | B | 142 | 208-230/460 | 18.0 | 90.2 | 21.70 |

DRIP COVER KITS FOR JM PUMP MOTORS

| Kit Ref. | Frame | Catalog Number | Enclosure | List Price |
|----------|-----------|----------------|-------------|------------|
| A | 143-145JM | 175004 | ODP | \$29 |
| B | 143-145JM | 175932 | ODP or TEFC | 16 |
| C | 182-184JM | 175933 | ODP | 18 |
| D | 182-184JM | 175695 | TEFC | 89 |
| E | 213-215JM | 175305 | ODP | 51 |
| F | 213-215JM | 175846 | ODP | 51 |
| G | 213-215JM | 175849 | TEFC | 51 |
| H | 213-215JM | 175962 | ODP | 51 |
| I | 254-256JM | 175963 | ODP | 67 |

Stainless JM pump motors on page 213.
Catalog numbers in blue are NEW items.