



FRACTIONAL HP – GENERAL PURPOSE MOTORS

FRACTIONAL HP

GENERAL PURPOSE

NEMA PREMIUM EFFICIENCY

CRUSHER® DUTY

IEC TRU-METRIC™

PUMP MOTORS

DEFINITE PURPOSE

ADD-ON™ MODIFICATIONS

MOTOR TECHNICAL DATA

DRIVES & SOFT STARTERS

CONTROLS



ODP

SINGLE PHASE – C-FACE

These motors have a wide range of applications. Because of their high starting torque, they are particularly well-suited for heavy starting loads. They are fitted with a C-Face as well as mounting feet for flexible mounting situations.



TEFC

APPLICATIONS

- Pumps
- Air Conditioning equipment
- Farm Equipment
- Conveyors
- Business machines
- Gear reducers
- Compressors
- Tools
- Fans and blowers
- Packaging equipment

STANDARD FEATURES

- Single-phase, II, IV or VI pole, 60Hz
- Voltage: 115/208-230V
- Squirrel cage rotor
- Start capacitor
- NEMA dimensions
- Class 'B' insulation (130°C)
- High starting torque
- Ball Bearings
- Open drip proof (ODP - IP21)
- Totally enclosed fan cooled (TEFC - IP55)
- Color: RAL 7022 (Dark Gray)
- Continuous Duty (S1), 40°C ambient
- V-ring slingers on both endshields (for TEFC only)
- Designed to operate in any position (for TEFC only)

OPTIONAL FEATURES

- Class 'F' insulation
- Flange mount
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Other mounting configurations
- Manual or Automatic thermal overload protection

APPROVED BY



E 104590

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LR 38324



FRACTIONAL HP – GENERAL PURPOSE MOTORS

OD – NEMA 8 & 56 FRAMES – SINGLE-PHASE MOTORS



C-FACE – RIGID BASE



| HP | RPM | NEMA Frame | Catalog Number | List Price | Mult. Sym | Approx. Shipping Weight Lbs. | Service Factor | FL Amps 230V | "C" Dimension | Voltage | Notes |
|-------|------|------------|-----------------|------------|-----------|------------------------------|----------------|--------------|---------------|--------------|-------|
| 1/8 | 3600 | 48C | .1236OS1BB48C | 226 | F1B | 17 | 1.40 | 1.60 | £.409 | 115/208-230V | |
| | 1800 | 48C | .1218OS1BB48C | 222 | F1B | 17 | 1.40 | 1.60 | £.409 | 115/208-230V | |
| 1/6 | 3600 | 48C | .1636OS1BB48C | 237 | F1B | 17 | 1.35 | 1.60 | £.409 | 115/208-230V | |
| | 1800 | 48C | .1618OS1BB48C | 231 | F1B | 17 | 1.35 | 1.90 | £.409 | 115/208-230V | |
| 1/4 | 1800 | 48C | .1618OS1BSPB48C | 247 | F1B | 19 | 1.35 | 1.90 | £.409 | 115/208-230V | † |
| | 3600 | 48C | .2536OS1BB48C | 241 | F1B | 19 | 1.35 | 1.90 | £.409 | 115/208-230V | |
| 1/4 | 3600 | 56C | .2536OS1B56C | 241 | F1B | 19 | 1.35 | 1.90 | £.764 | 115/208-230V | |
| | 1800 | 48C | .2518OS1BB48C | 233 | F1B | 19 | 1.35 | 2.40 | £.409 | 115/208-230V | |
| 1/4 | 1800 | 48C | .2518OS1BSPB48C | 263 | F1B | 20 | 1.35 | 2.40 | £.409 | 115/208-230V | † |
| | 1800 | 56C | .2518OS1B56C | 233 | F1B | 19 | 1.35 | 2.40 | £.764 | 115/208-230V | |
| 1/3 | 3600 | 48C | .3336OS1BC48C | 244 | F1B | 22 | 1.35 | 2.60 | 10.197 | 115/208-230V | |
| | 3600 | 56C | .3336OS1BC56C | 244 | F1B | 22 | 1.35 | 2.60 | 10.551 | 115/208-230V | |
| 1/3 | 1800 | 48C | .3318OS1BC48C | 258 | F1B | 22 | 1.35 | 3.00 | 10.197 | 115/208-230V | |
| | 1800 | 48C | .3318OS1BSPC48C | 282 | F1B | 22 | 1.35 | 3.00 | 10.197 | 115/208-230V | † |
| 1/3 | 1800 | 56C | .3318OS1BC56C | 258 | F1B | 22 | 1.35 | 3.00 | 10.551 | 115/208-230V | |
| | 3600 | 48C | .5036OS1BC48C | 258 | F1B | 24 | 1.25 | 3.40 | 10.197 | 115/208-230V | |
| 1/2 | 3600 | 56C | .5036OS1BC56C | 266 | F1B | 24 | 1.25 | 3.40 | 10.551 | 115/208-230V | |
| | 1800 | 48C | .5018OS1BC48C | 296 | F1B | 24 | 1.25 | 3.90 | 10.197 | 115/208-230V | |
| 1/2 | 1800 | 48C | .5018OS1BSPC48C | 300 | F1B | 24 | 1.25 | 3.90 | 10.197 | 115/208-230V | † |
| | 1800 | 56C | .5018OS1BC56C | 286 | F1B | 24 | 1.25 | 3.90 | 10.551 | 115/208-230V | |
| 3/4 | 3600 | 56C | .7536OS1BB56C | 297 | F1B | 32 | 1.25 | 5.50 | 11.102 | 115/208-230V | |
| | 1800 | 56C | .7518OS1BD56C | 349 | F1B | 36 | 1.25 | 5.50 | 12.283 | 115/208-230V | |
| 1 | 3600 | 56C | 00136OS1BD56C | 317 | F1B | 36 | 1.25 | 7.00 | 12.283 | 115/208-230V | |
| | 1800 | 56C | 00118OS1BD56C | 378 | F1B | 39 | 1.15 | 7.00 | 12.283 | 115/208-230V | |
| 1 1/2 | 3600 | 56C | 00156OS1BD56C | 355 | F1B | 40 | 1.15 | 9.00 | 12.283 | 115/208-230V | |
| | 1800 | 56HC | 00158OS1BF56C | 461 | F1B | 51 | 1.15 | 10.5 | 13.464 | 115/208-230V | |
| 2 | 3600 | 56HC | 00236OS1BF56C | 432 | F1B | 48 | 1.15 | 11.0 | 13.464 | 115/208-230V | |
| | 1800 | 56HC | 00218OS1BG56C | 544 | F1B | 55 | 1.15 | 13.0 | 13.858 | 115/208-230V | |
| 3 | 3600 | 56HC | 00336OS1BG56C | 496 | F1B | 53 | 1.15 | 15.0 | 13.858 | 115/208-230V | |

- ELECTRICAL FEATURES ON PAGE B-2.
- MECHANICAL FEATURES ON PAGE B-50.

C-FACE – FOOTLESS



| HP | RPM | NEMA Frame | Catalog Number | List Price | Mult. Sym | Approx. Shipping Weight Lbs. | Service Factor | FL Amps 230V | "C" Dimension | Voltage | Notes |
|-------|------|------------|-----------------|------------|-----------|------------------------------|----------------|--------------|---------------|--------------|-------|
| 1/3 | 3600 | 56C | .3336OS1BC56CFL | 244 | F1B | 22 | 1.35 | 2.60 | 10.551 | 115/208-230V | |
| | 1800 | 56C | .3318OS1BC56CFL | 258 | F1B | 22 | 1.35 | 3.00 | 10.551 | 115/208-230V | |
| 1/2 | 3600 | 56C | .5036OS1BC56CFL | 266 | F1B | 24 | 1.25 | 3.40 | 10.551 | 115/208-230V | |
| | 1800 | 56C | .5018OS1BC56CFL | 286 | F1B | 24 | 1.25 | 3.90 | 10.551 | 115/208-230V | |
| 3/4 | 3600 | 56C | .7536OS1BB56CFL | 297 | F1B | 32 | 1.25 | 5.50 | 11.102 | 115/208-230V | |
| | 1800 | 56C | .7518OS1BD56CFL | 349 | F1B | 36 | 1.25 | 5.50 | 12.283 | 115/208-230V | |
| 1 | 3600 | 56C | 00136OS1BD56CFL | 317 | F1B | 36 | 1.25 | 7.00 | 12.283 | 115/208-230V | |
| | 1800 | 56C | 00118OS1BD56CFL | 378 | F1B | 39 | 1.15 | 7.00 | 12.283 | 115/208-230V | |
| 1 1/2 | 3600 | 56C | 00156OS1BD56CFL | 355 | F1B | 40 | 1.15 | 9.00 | 12.283 | 115/208-230V | |
| | 1800 | 56C | 00158OS1BF56CFL | 461 | F1B | 51 | 1.15 | 10.5 | 13.464 | 115/208-230V | |
| 2 | 3600 | 56C | 00236OS1BF56CFL | 432 | F1B | 48 | 1.15 | 11.5 | 13.464 | 115/208-230V | |
| | 1800 | 56C | 00218OS1BG56CFL | 544 | F1B | 55 | 1.15 | 13.0 | 13.858 | 115/208-230V | |
| 3 | 3600 | 56C | 00336OS1BG56CFL | 496 | F1B | 53 | 1.15 | 15.0 | 13.858 | 115/208-230V | |

- ELECTRICAL FEATURES ON PAGE B-2.
- MECHANICAL FEATURES ON PAGE B-50.

† = Split-Phase Motor



FRACTIONAL HP – GENERAL PURPOSE MOTORS

TEFC – NEMA 56 FRAMES – SINGLE-PHASE MOTORS



FRACTIONAL HP

GENERAL PURPOSE

NEMA PREMIUM EFFICIENCY

CRUSHER® DTY

IEC TRU-METRIC™

PUMP MOTORS

FINITE PURPOSE

ADN™ MODIFICATIONS

MOTOR TECHNICAL M/A

BIES & SOFT STARTERS

CONTROLS

C-FACE – RIGID BASE

| HP | RPM | NEMA Frame | Catalog Number | List Price | Mult. Sym | Approx. Shipping Weight Lbs. | Service Factor | FL Amps 230V | "C" Dimension | Voltage | Notes |
|-------|------|------------|----------------|------------|-----------|------------------------------|----------------|--------------|---------------|--------------|-------|
| 1/4 | 3600 | 56C | .2536ES1BB56C | 280 | F1 | 31 | 1.15 | 2.50 | 11.496 | 115/208-230V | |
| | 1800 | 56C | .2518ES1BB56C | 288 | F1 | 33 | 1.15 | 2.30 | 11.496 | 115/208-230V | |
| 1/3 | 3600 | 56C | .3336ES1BB56C | 288 | F1 | 36 | 1.15 | 2.80 | 11.496 | 115/208-230V | |
| | 1800 | 56C | .3318ES1BB56C | 304 | F1 | 36 | 1.15 | 3.00 | 11.496 | 115/208-230V | |
| 1/2 | 3600 | 56C | .5036ES1BB56C | 313 | F1 | 40 | 1.15 | 3.80 | 11.496 | 115/208-230V | |
| | 1800 | 56C | .5018ES1BB56C | 333 | F1 | 41 | 1.15 | 3.85 | 11.496 | 115/208-230V | |
| | 1200 | 56C | .5012ES1BD56C | 535 | F1 | 44 | 1.15 | 4.90 | 11.496 | 115/208-230V | |
| 3/4 | 3600 | 56C | .7536ES1BB56C | 353 | F1 | 41 | 1.15 | 5.30 | 11.496 | 115/208-230V | |
| | 1800 | 56C | .7518ES1BB56C | 370 | F1 | 46 | 1.15 | 5.60 | 11.496 | 115/208-230V | |
| | 1200 | 56HC | .7512ES1BF56C | 669 | F1 | 56 | 1.15 | 5.20 | 13.858 | 115/208-230V | |
| 1 | 3600 | 56C | 00136ES1BD56C | 378 | F1 | 46 | 1.15 | 6.30 | 12.677 | 115/208-230V | |
| | 1800 | 56C | 00118ES1BD56C | 424 | F1 | 52 | 1.15 | 7.00 | 12.677 | 115/208-230V | |
| 1 1/2 | 3600 | 56C | 00156ES1BD56C | 454 | F1 | 56 | 1.15 | 8.50 | 12.677 | 115/208-230V | |
| | 1800 | 56HC | 00158ES1BF56C | 478 | F1 | 58 | 1.15 | 9.00 | 13.858 | 115/208-230V | |
| 2 | 3600 | 56HC | 00236ES1BF56C | 537 | F1 | 65 | 1.15 | 10.5 | 13.858 | 115/208-230V | |

- ELECTRICAL FEATURES ON PAGE B-3.
- MECHANICAL FEATURES ON PAGE B-51.



C-FACE – FOOTLESS

| HP | RPM | NEMA Frame | Catalog Number | List Price | Mult. Sym | Approx. Shipping Weight Lbs. | Service Factor | FL Amps 230V | "C" Dimension | Voltage | Notes |
|-------|------|------------|-----------------|------------|-----------|------------------------------|----------------|--------------|---------------|--------------|-------|
| 1/3 | 3600 | 56C | .3336ES1BB56CFL | 288 | F1 | 36 | 1.15 | 2.80 | 11.496 | 115/208-230V | |
| | 1800 | 56C | .3318ES1BB56CFL | 304 | F1 | 36 | 1.15 | 3.00 | 11.496 | 115/208-230V | |
| 1/2 | 3600 | 56C | .5036ES1BB56CFL | 313 | F1 | 40 | 1.15 | 3.80 | 11.496 | 115/208-230V | |
| | 1800 | 56C | .5018ES1BB56CFL | 333 | F1 | 41 | 1.15 | 3.85 | 11.496 | 115/208-230V | |
| | 1200 | 56C | .5012ES1BD56CFL | 535 | F1 | 44 | 1.15 | 4.90 | 12.677 | 115/208-230V | |
| 3/4 | 3600 | 56C | .7536ES1BB56CFL | 353 | F1 | 41 | 1.15 | 5.30 | 11.496 | 115/208-230V | |
| | 1800 | 56C | .7518ES1BB56CFL | 370 | F1 | 46 | 1.15 | 5.60 | 11.496 | 115/208-230V | |
| | 1200 | 56C | .7512ES1BF56CFL | 669 | F1 | 56 | 1.15 | 5.20 | 13.858 | 115/208-230V | |
| 1 | 3600 | 56C | 00136ES1BD56CFL | 378 | F1 | 46 | 1.15 | 6.30 | 12.677 | 115/208-230V | |
| | 1800 | 56C | 00118ES1BD56CFL | 424 | F1 | 52 | 1.15 | 7.00 | 12.677 | 115/208-230V | |
| 1 1/2 | 3600 | 56C | 00156ES1BD56CFL | 454 | F1 | 56 | 1.15 | 8.50 | 12.677 | 115/208-230V | |
| | 1800 | 56C | 00158ES1BF56CFL | 478 | F1 | 58 | 1.15 | 9.00 | 13.858 | 115/208-230V | |
| 2 | 3600 | 56C | 00236ES1BF56CFL | 537 | F1 | 65 | 1.15 | 10.5 | 13.858 | 115/208-230V | |

NOTE: These motors are fitted with a C-Face only for mounting. They are Round Body frames with no mounting feet.

- ELECTRICAL FEATURES ON PAGE B-3.
- MECHANICAL FEATURES ON PAGE B-51.