

PRODUCT INFORMATION PACKET



Model No: 193300.60

Catalog No: 193300.60

LEESON® PASSPORT 2 HP General Purpose, 3 phase, 1200 RPM, 230/460 V, 100L Frame, TEFC



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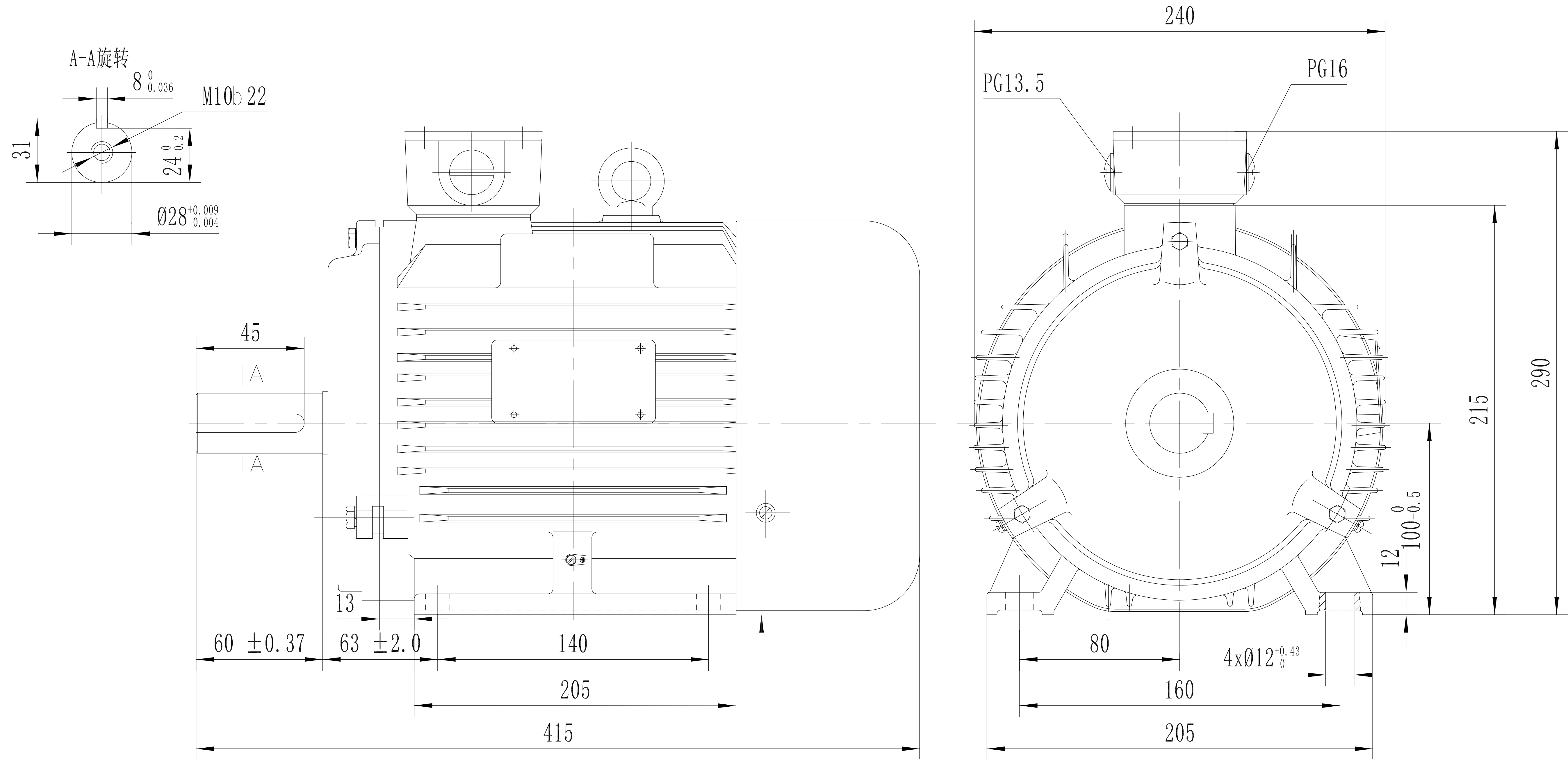
Nameplate Specifications

| | | | |
|------------------------|-----------------|----------------------------|-----------------------------|
| Phase | 3 | Output HP | 2 & 1.50 Hp |
| Output KW | 1.5 & 1.1 kW | Voltage | 230/460 & 200/400 V |
| Speed | 1185 & 980 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 100L | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | Thermostat | Efficiency | 88.5 & 88.5 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 6/3 & 5.6/2.8 A | Power Factor | 70.5 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | K |
| Drive End Bearing Size | 6206 | Opp Drive End Bearing Size | 6205 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 55 |
| Number of Speeds | 1 | | |


Technical Specifications

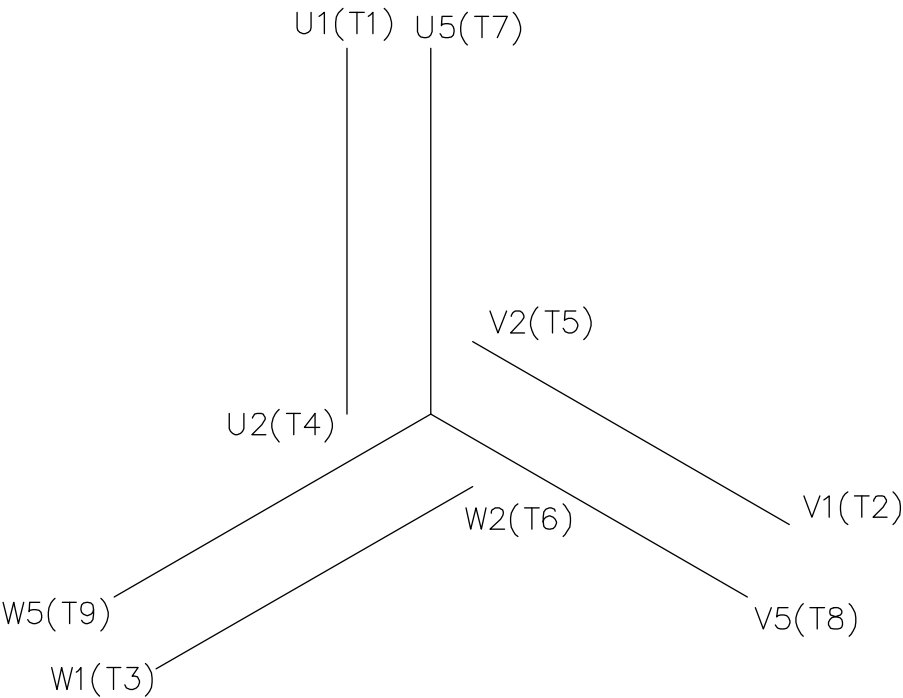
| | | | |
|-----------------------|------------------------------|--------------------|------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 6 | Rotation | Reversible |
| Resistance Main | 5.09 Ohms | Mounting | B3 |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | IEC | Overall Length | 16.33 in |
| Shaft Diameter | 1.125 in | Shaft Extension | 2.36 in |
| Assembly/Box Mounting | F3 | Inverter Load | CONSTANT 10:1 |
| Outline Drawing | B-SS622236 | Connection Drawing | 005465.01 |

SS622236



| | |
|------------|-----------|
| DF100L-2R | 193303.60 |
| DF100L1-4R | 193301.60 |
| DF100L2-4R | 193304.60 |
| DF100L-6R | 193300.60 |
| FRAME | PART # |


| | | | | | | | | | | | | | |
|--|----------|--|-----------|--------------------------------|--------|--|--|--|---------|-------------------------|--|-------|--------|
| | | | | TOLERANCES UNLESS SPECIFIED | |  Regal-Beloit Corporation | | | DRAWN | | | | |
| | | | | DEC. | INCHES | | | | CHK | | | | |
| | | | | .X | ±.1 | | | | APPD | | | | |
| | | | | .XX | ±.03 | TITLE | | | OUTLINE | | | SCALE | |
| | | | | .XXX | ±.005 | | | | | | | REF | |
| | | | | .XXXX | ±.0005 | MAT'L. | | | | | | FMF | |
| NO. | REVISION | | BY & DATE | CHK | ANG | | | | | | | ±1/2 | FINISH |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT | | | | RFP | | CAD FILE | | | SIZE | DRAWING NO. SS622236 | | REV. | |
| | | | | DIST | | | | | B | | | | |



REF. DECAL (IEC) 080644
REF. DECAL (NEMA) 080446

| IEC MARKINGS | | | | | | |
|--------------|-------|-------|--------------|-------|----------|-------|
| LOW VOLTAGE | | | HIGH VOLTAGE | | | |
| | | | | | | |
| LINE VOLTAGE | L1 | L2 | L3 | JOIN | | |
| TERMINAL | U1 | V1 | W1 | W2 | U2 | V2 |
| LOW | U1,U5 | V1,V5 | W1,W5 | ---- | U2,V2,W2 | ---- |
| HIGH | U1 | V1 | W1 | U2,U5 | V2,V5 | W2,W5 |

| NEMA MARKINGS | | | | | | |
|---------------|--------|--------|--------------|--------|----------|--------|
| LOW VOLTAGE | | | HIGH VOLTAGE | | | |
| | | | | | | |
| LINE VOLTAGE | L1 | L2 | L3 | JOIN | | |
| TERMINAL | U1 | V1 | W1 | W2 | U2 | V2 |
| LOW | T1, T7 | T2, T8 | T3, T9 | ---- | T4,T5,T6 | ---- |
| HIGH | T1 | T2 | T3 | T4, T7 | T5, T8 | T6, T9 |

| | | | | | | | | | | | | | | | |
|--|----------------------------------|--|-----------|--------------------------------|--------|---|---|----------|-----------|--------------|-------------------|------|-------------|--|------|
| | | | | TOLERANCES UNLESS SPECIFIED | |  | ELECTRIC MOTORS GEARMOTORS AND DRIVES | | DRAWN | | MGM 12/3/02 | | | | |
| | | | | DEC. | INCHES | | | | CHK | | | | | | |
| | | | | .X | ±.1 | | | | APPD | | | | | | |
| | | | | .XX | ±.01 | | | | SCALE 1=1 | | | | | | |
| | | | | .XXX | ±.005 | TITLE EXTERNAL WIRING DIAGRAM 3 PHASE – DUAL VOLTAGE – W/TERM BLOCK | | | | REF 00537703 | | | | | |
| 01 | NEMA LV CONNECTION WAS INCORRECT | | RLW | 8/4/03 | | | .XXXX | ±.0005 | MAT'L. | | IEC/NEMA MARKINGS | | FMF | | |
| NO. | REVISION | | BY & DATE | | CHK | ANG | ±1/2' | | FINISH | | THERMAL TRANSFER | | PREV | | |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT | | | | | RFP | | | CAD FILE | | 00546501 | | SIZE | DRAWING NO. | | REV. |
| | | | | | DIST | | | | | A | 005465–01 | | 01 | | |



CERTIFICATION DATA SHEET

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810

CATALOG #: 193300.60

CONN. DIAGRAM: 005465.01

OUTLINE: B-SS622236

MOUNTING: F3

WINDING #: T06806004 3

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---------|-----------|-----------|----------|-------|-----------|----------|--------|
| 2&1 1/2 | 1.49&1.12 | 1200 | 1185&980 | 100L | TEFC | K | B |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|----|-------|-----------------|-------------|------------------|------------|------|-----------|-------|
| 3 | 60/50 | 230/460&200/400 | 6/3&5.6/2.8 | LINE OR INVERTER | CONTINUOUS | F5 | 1.15/1.15 | 40 |

| | | | | | | | |
|----------------|-----------|---------------|------|---------------|------|----------|-------------------|
| FULL LOAD EFF: | 88.5&88.5 | 3/4 LOAD EFF: | 88.5 | 1/2 LOAD EFF: | 85.5 | GTD. EFF | ELEC. TYPE |
| FULL LOAD PF: | 70.5&65 | 3/4 LOAD PF: | 63 | 1/2 LOAD PF: | 51 | 86.5 | SQ CAGE INV RATED |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|------------------|----------------|-------------|
| 8.9 LB-FT | 44.6 / 22.3 | 22.8 LB-FT 256 % | 31 LB-FT 348 % | 37 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|-----------|-----------------|---------------|-------------------|
| 42 dBA | 52 dBA | - LB-FT^2 | - LB-FT^2 | 20 SEC. | 2 | 94 LBS. |

*** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------|---------------------|--------------------|------------|---------|------------------------|
| STANDARD | STANDARD | RIGID | HORIZONTAL | PREMIUM SEVERE DUTY | NONE | FALSE | NONE | BLUE - LEESON (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|--------------|------------|-------------|----------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | | | | | | |
| 6206 | 6205 | POLYREX EM | STANDARD IEC | NONE | NONE | NONE | CAST IRON |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------------|------------|----------|----------|-------------|---------|---------------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| TSTATS (N/C) | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

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INVERTER TORQUE: CONSTANT 10:1

INV. HP SPEED RANGE: NONE

ENCODER: NONE

NONE NONE

NONE NONE PPR

BRAKE: NONE NONE

NONE P/N NONE

NONE NONE

NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/23/2018

193300.60



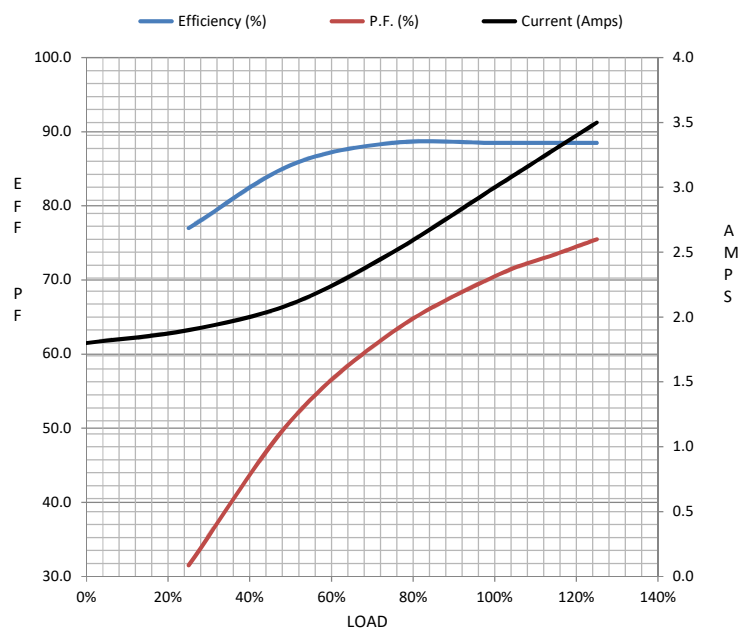
Data @ 460 V

Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 1.80 | 1.90 | 2.10 | 2.50 | 3.0 | 3.3 | 3.5 | 22.3 | |
| Torque (ft-lb) | 0.00 | 2.20 | 4.4 | 6.6 | 8.9 | 10.3 | 11.0 | 22.8 | |
| RPM | 1200 | 1195 | 1192 | 1188 | 1185 | 1,180 | 1175 | 0 | |
| Efficiency (%) | | 77.0 | 85.5 | 88.5 | 88.5 | 88.5 | 88.5 | | |
| P.F. (%) | 6.5 | 31.5 | 51.0 | 63.0 | 70.5 | 73.5 | 75.5 | 44.0 | |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle | Information Block | | | |
|----------------|------|---------|------|-------|------|-------------------|------|--|--|
| Speed (RPM) | 0 | 600 | 1050 | 1185 | 1200 | HP | 2.0 | | |
| Current (Amps) | 22.3 | 20.2 | 10.5 | 3.0 | 1.80 | Sync. RPM | 1200 | | |
| Torque (ft-lb) | 22.8 | 17.5 | 31.0 | 8.9 | 0.00 | Frame | 100 | | |



| | | | | |
|----------------------------|-----------------|--------|--------|--------|
| HP | 2.0 | | | |
| Sync. RPM | 1200 | | | |
| Frame | 100 | | | |
| Enclosure | TEFC | | | |
| Construction | TFC | | | |
| Voltage | 230/460#200/400 | | V | |
| Frequency | 60 | | Hz | |
| Design | B | | | |
| LR Code letter | K | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 37 | | ° C | |
| Duty | CONT | | | |
| Ambient | 40 | | ° C | |
| Elevation | 1,000 | | feet | |
| Rotor/Shaft wk² | 0.00 | | Lb-Ft² | |
| Ref Wdg | T06806004 NONE | | | |
| Sound Pressure @ 1M | 42 | | dBA | |
| VFD Rating | CONSTANT 10:1 | | | |
| Outline Dwg | B-SS622236 | | | |
| Conn. Diag | 005465.01 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Speed - Torque Curve

