PRODUCT INFORMATION PACKET

Model No: B199702.00 Catalog No: B199702.00 Ultimate e[™] General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 256T Frame, DP



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LEESON

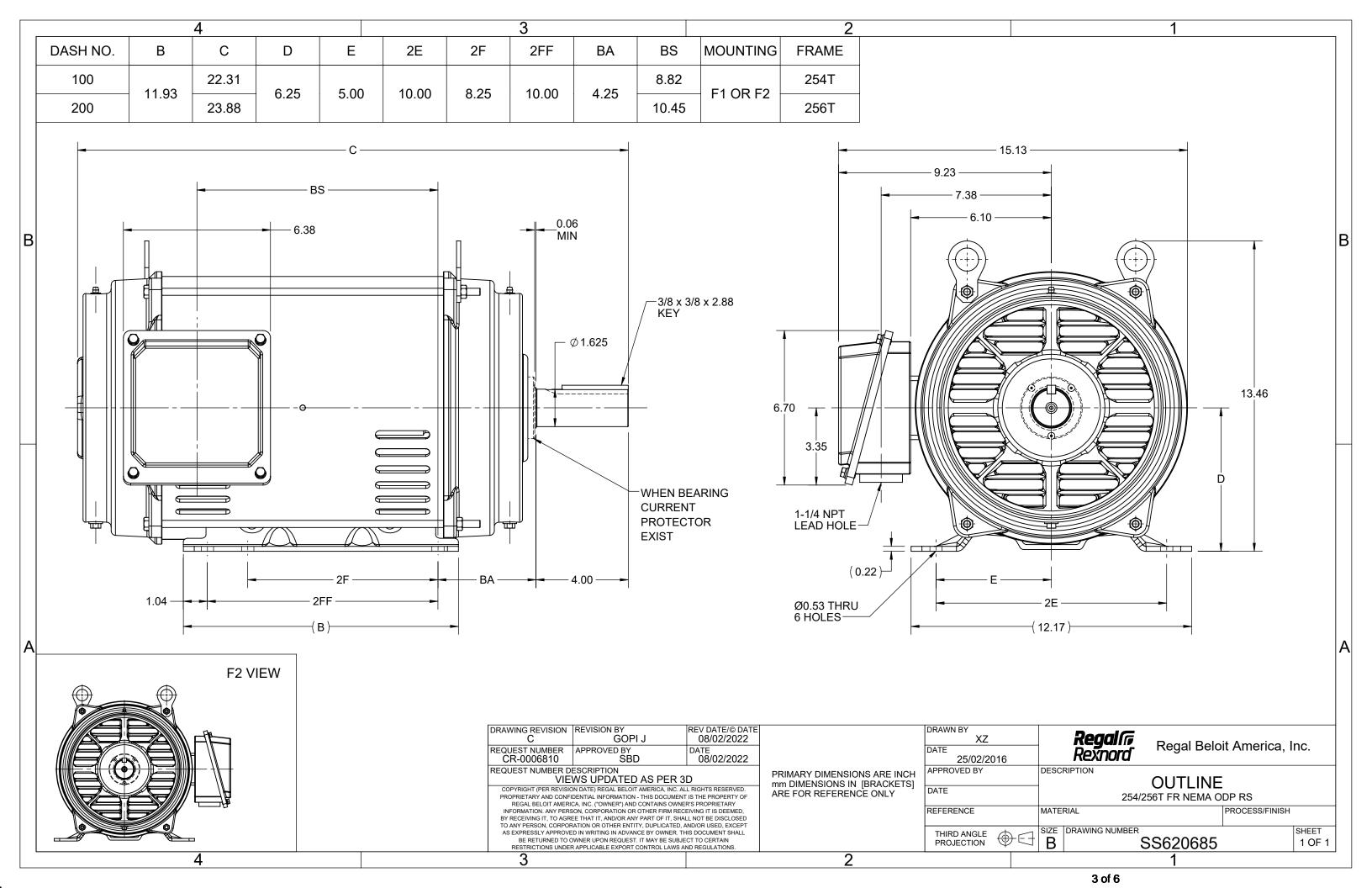
Nameplate Specifications

| Phase | 3 | Output HP | 20 & 15 Hp |
|------------------------|----------------------------------|----------------------------|---------------------|
| Output KW | 14.9 & 11.2 kW | Voltage | 230/460 & 190/380 V |
| Speed | 1770 & 1474 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 256T | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Efficiency | 93 & 92.4 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 48.5/24.3 & 45/22.4 A | Power Factor | 83.5 |
| Duty | Continuous | Insulation Class | F |
| Design Code | В | KVA Code | G |
| Drive End Bearing Size | 6309 | Opp Drive End Bearing Size | 6209 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 22 |
| Number of Speeds | 1 | | |

Technical Specifications

| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
|-----------------------|------------------------------|-----------------------|------------------|
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .546 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | т | Overall Length | 24.22 in |
| Frame Length | 2.56 in | Shaft Diameter | 1.625 in |
| Shaft Extension | 4 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Connection Drawing | EE7308K | Outline Drawing | SS620685-256T |

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|--|---------------------------------|------------|----------------|----------------------|----------|-------------------------------------|-----------------|---------------|--|
| LOW VOLTAGE | | | | | | | | EE | 7308K |
| T1(U1) T6(W2) T7(U3) | | | | | | | | | |
| T2(V1) T4(U2) T8(V3) | <u>)</u> | | | | | | | | |
| T3(W1) T5(V2) T9(W3) | 3 | | | _ | | • T9 T4 • | | | -T6(W2) -T9(W3) -T1(U1) -T4(U2) |
| HIGH VOLTAGE T1(U1)L1 | | | | / | C C | Jon Star | | | -T7(U3) -T2(V1) -T5(V2) |
| T4(U2) T7(U3) | | | | | | | | | -T8(V3) -T3(W1) |
| T2(V1)La |) - | / | | | ~ | | | | |
| T5(V2) T8(V3) | / | | | | | | | | |
| T3(W1)L3 | } | | | /IEW | / 🗆 F | TERMINAL | END | | |
| T6(W2) | | | | | | | | | |
| | | l | TOLE UNLESS | ERANCES SPECIFIEI | | ANN NIKA NA NA NA | | DRAWN | PGK 06-04-1997 |
| E CORRECTED IEC MARKINGS ECO-0111208 | WGJ 01-23-2017 | EMH | | INCHES | R | EGAL REGAL - BELO | OIT CORPORATION | СНК | ML 06-05-1997 |
| D RE-DRAWN WITH REGAL LOGO ECO-0110493 8 ADDED IEC DESIGNATIONS MU95020 | WGJ 09-30-2016 TJW 4/30/2010 | EMH MJS | | ±.1 ±.02 | TITLE | | CDAM | APPD SCALE | GK 06-15-1997 |
| 8 ADDED IEC DESIGNATIONS MU95020 7 REVISD HIGH VOLTAGE L2 WAS L3 CN52600-354 | MRB 09-21-1998 | | | ±.02 | | CONNECTION DIA DELTA CON, - 30 - | | REF | |
| 6 REDRAWN ON CADD | PGK 06-05-1997 | | | ±.0005 | MAT'L. | | | FMF | |
| ND. REVISION | BY & DATE | СНК | | ±7′30″ | FINISH | | | PREV | |
| THIS DRAWING IN DESIGN AND DETAIL IS DUR PROPERTY AND MUST NO | | RFP | · · · · · | | CAD FILE | EE7308K | SIZE DRAWING | | |
| IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCAL | | DIST | | | | | A E | E7308 | K E |

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P.O. BOX 8003 WAUSAU, WI 54401-8003 PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

| CONN. DIA OUTLINE: WINDING: | | SS620685 HE316040 | | NONE | 2 | | | | CAT #: | B13 | 9702.00 | | |
|-----------------------------------|----------|-----------------------|-----------|------------|---------------------------------|--------------|---------------------|-----------------------|--------------|-------------------------|----------------|--------------|---------------|
| | | | | т | YPICAI | мото | R PERFO | RMAN | CE DATA | | | | |
| HP | кw | KW SYNC RPM FL RPM | | FRAME | | ENCLOSURE | | TYPE | KVA CO | DE | DESIGN | | |
| 20 | 14.9 | 1 | 800 | 177 | 1770 256T | | 56T | DP | | TDC G | | В | |
| | | | | | | | | | | | | | |
| PH | HZ | VOLTS AMPS START TYPE | | | DUTY | | INSL | S.F. | AMB | ELEV. | | | |
| 3 | 60/50 | 230/460 | 0#190/380 | 48.5/24.38 | 45/22.4 | LINE OR | INVERTER | CONT | | F | 1.15 | 40 | 3300 |
| F | F.L. EFF | 93.0 | | 3/4 LD EFF | 93.0 | | 1/2 LD EFF | 92.4 | GTD EFF | | ELECT. TY | PE | |
| - | F.L. PF | 83.5 | | 3/4 LD PF | 79.5 | | 1/2 LD PF | 69.5 | 92.4 | | SQ CAGE INV | | |
| | | | • | | | | | | | | | | |
| F.L. TO | | l | _R AMPS @ | 460 V | | L.R. TORQ | | B.D. TORQ | | | F.L. RISE | (°C) | |
| 59.4 | LB-FT | | 144 | | 118 | LB-FT | 199% | 146 | LB-FT | 246% | 45 | | |
| PRESSU | RE @ 3 | PO | WER | ROTOR | WK ² | MAX. L | OAD WK ² | SAFES | STALL TIME | STAR | TS/HOUR | мот | OR WGT |
| | dBA | 83 | dBA | | LB-FT ² | | LB-FT ² | 20 | SEC. | | 2 | 325 | LB. |
| | | | | ` | *** 91 | | ENTAL INFO | | ON *** | | | | • |
| DE BRA | CKET | | | MOUNT | | | SEVERE | HAZARDOUS | | DRIP | | | |
| TYPE | | ODE BRACKET TYPE | | TYPE | | ITATION DUTY | | LOCATION | | COVER | SCREENS | PAINT | |
| STAND | DARD | STAN | NDARD | RIGID | HORIZ | ONTAL | NO | 1 | NONE | NO | NONE | BLUE | (ENAMEL) |
| BEARI | NGS | | | | | 1 | | | | | | 1 | |
| BEARINGS DE ODE | | GREASE | | SHAFT TYPE | | SPECIAL DE | | SPECIAL ODE | | SHAFT | MATERIAL | FRAME | MATERIA |
| BALL BALL | | POLYREX EM | | т | | NONE | | NONE | | 1045 HOT ROLLED (C-204) | | ROLLED STEEL | |
| 6309 | 6209 | TOET | | | | | | | IONE | 104311011 | 102220 (0 204) | HOLL | |
| TUEDNO | 07.470 | DDOT | | | TD 1- | | DTD | | | | NTRO | - | PACE ATERS |
| THERMOSTATS NONE | | NOT | | _ | WDG RTD's BRG RTD's NONE NONE | | | THERMISTORS NONE | | FALSE | | NA | |
| | | | | | | | | | | | ALOL | 1 | 10. |
| R1 (ohn | ns/ph) | R2 (o | hms/ph) | X1 (ohn | ns/ph) | X2 (ol | hms/ph) | Xm (| ohms/ph) | VIBRAT | ION (in/sec) | F | LOAT |
| 0.33 | 38 | 0. | .192 | 1.06 | 8 | 1. | .235 | 2 | 27.321 | (| 0.080 | | ODE |
| * | | | | | | | | | | | | | |
| N | | | | | | | | | INVERT | ER TORQUE: | VARIABLE 10:1 | | |
| ο | | | | | | | | | INV. HP SP | EED RANGE: | NONE | | |
| т | | | | | | | | | | | | | |
| E | | | | | | | | | ENCODER: | NONE | | | |
| S * | | | | | | | | | NONE NONE | | | NONE | PPR |
| | | | | | | | | | BRAKE: | NONE | | NONE | TEN |
| | | | | | | | | | | DNE | NONE | | |
| | DATE: | 1/30 | 0/2018 | | | | | | FT-LB: | | NA | | |
| | | | | | | | | | VOLTAGE: | | IONE | | HZ |
| | | | | | | | | UL: Y-(LEESON UL REC) | | | | | |

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