PRODUCT INFORMATION PACKET



Model No: 182THTS8048 Catalog No: Y988

Blue Max® Inverter Duty Brake Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 182TC Frame, TENV



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Nameplate Specifications

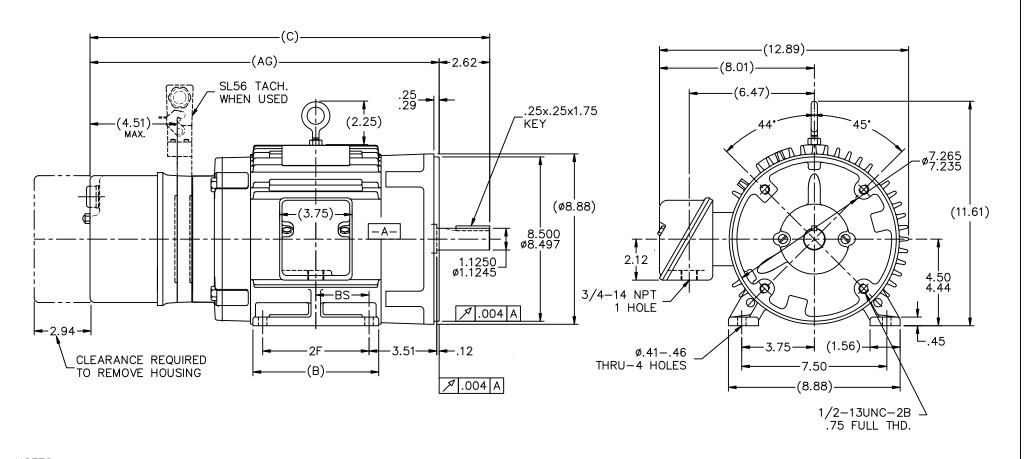
| Phase | 3 | Output HP | 3 Hp |
|------------------------|------------|----------------------------|---------------------------------|
| Output KW | 2.2 kW | Voltage | 230/460 V |
| Speed | 1745 rpm | Service Factor | 1.0 |
| Frame | 182TC | Enclosure | Totally Enclosed Non Ventilated |
| Thermal Protection | Thermostat | Efficiency | 84 % |
| Ambient Temperature | 40 °C | Frequency | 60 Hz |
| Current | 8.2/4.1 A | Power Factor | 81 |
| Duty | Continuous | Insulation Class | F |
| Design Code | INV | KVA Code | L |
| Drive End Bearing Size | 6207 | Opp Drive End Bearing Size | 6206 |
| UL | Recognized | CSA | Υ |
| CE | Υ | IP Code | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

| Electrical Type | Squirrel Cage Inverter Duty | Starting Method | Inverter Only |
|-----------------------|-----------------------------|-----------------------|---------------|
| Poles | 4 | Rotation | Reversible |
| Resistance Main | 4.9 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | Т | Overall Length | 19.67 in |
| Frame Length | 5.75 in | Shaft Diameter | 1.125 in |
| Shaft Extension | 2.62 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Inverter Load | CONSTANT 2000:1 | | |
| Outline Drawing | B-SS69135-575 | Connection Drawing | A-EE7308T |

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NOTES:

- 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
- 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
- 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

| ; | SIDE OF | MOTOR | (| | | | | | \vdash | | + | | | DEC. | SS SPECIFIED | | DRAWN | ML 07-13-2001 |
|------|---------|-------|-------|------|----------|------|---|---|----------|---|----|--------------|------|-------|--------------|---|-------|---------------|
| | 1 | | | 1 | 1 | 1 | 1 | 1 | 13 | REDRAWN IN AUTOCAD | TA | T 06-24-2005 | DRS | + | ±.1 | | APPD | PH 07-16-2001 |
| | | | | | | | 1 | | 2 | UPDATED SHAFT EXTENSION ON O.D.E. AND TACH | | | | .xx | ±.03 | TITLE OUTLINE - C' FACE - STEARNS BRAKE | SCALE | 5=16 |
| | | | | | | | | | ┖ | WHEN USED MU37304 | DF | S 08-17-2001 | | .xxx | ±.005 | 180T FR BB - TS | REF | |
| 575 | 182T | 19.67 | 17.05 | 5.50 | 4.50 | 2.25 | | | 1 | NEW DRAWING MU37304 | DA | H 07-16-2001 | | .xxxx | ±.0005 | MAT'L. | FMF | |
| 675 | 184T | 20.67 | 18.50 | 6.50 | 5.50 | 2.75 | | | NO. | . REVISION | | | СНК | ANG | ±7'30" | FINISH | PREV | |
| | | | | | - | | | | 1 | THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BI IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION A | | | RFP | | | CAD FILE ss69135 SIZE DRAWING N | | GE OF REV |
| DASH | FRAME | C | AG | В | 2F | BS | | | 1 | THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE | | | DIST | LB | | B S: | 5691. | 35 <i>3</i> |



CERTIFICATION DATA SHEET

 Model#:
 182THTS8048 AR
 WINDING#:
 K1824103 R2 2

 CONN. DIAGRAM:
 A-EE7308T
 ASSEMBLY:
 F1/F2 CAPABLE

OUTLINE: B-SS69135-575

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|--------|
| 3 | 2.24 | 1800 | 1745 | 182TC | TENV | L | INV |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|---------|---------|------------|-----------|------|-----|-------|-----------|
| 3 | 60 | 230/460 | 8.2/4.1 | INVERTER | CONTINUOU | F3 | 1.0 | 40 | 3300 |
| | | | | ONLY | S | | | | |

| FULL LOAD EFF: 84 | 3/4 LOAD EFF: 86.5 | 1/2 LOAD EFF: 85.5 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|-------------------|--------------------|--------------------|----------|------------------|--------------|
| FULL LOAD PF: 81 | 3/4 LOAD PF: 75 | 1/2 LOAD PF: 63 | 81.5 | SQ CAGE INV DUTY | 4 / 2 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|--------------|--------------|-------------|
| 9 LB-FT | 73 / 36.5 | 27 LB-FT 300 | 35 LB-FT 388 | 95 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---------------------------|-------------|-------------|-----------|-----------------|-----------------|----------------------|
| 62 dBA | 72 dBA | 0.4 LB-FT^2 | - LB-FT^2 | - SEC. | - | 118 LBS. |

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

| R1 | R2 | X1 | X2 | XM |
|---------|---------|---------|--------|---------|
| 3.24478 | 2.25148 | 5.49626 | 6.5747 | 152.306 |
| RM | ZREF | XR | TD | TD0 |
| 5411.12 | 94.6 | 1.4 | 0.0069 | 0.185 |

*** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|--------------------|----------------------|---------------|-------------|----------------|-----------------------|---------------|---------|------------------|
| C-FACE | BRAKE AND ENCODER | RIGID | HORIZONTAL | FALSE | NONE | FALSE | NONE | BLUE (ENAMEL) |

| BEAF | RINGS | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT | FRAME |
|------|-------|------------|------------|------------|-------------|-------------|-----------|
| DE | OPE | | | | | MATERIAL | MATERIAL |
| BALL | BALL | POLYREX EM | Т | NONE | NONE | 1144 | CAST IRON |
| 6207 | 6206 | | | | | STRESSPROOF | |
| 0201 | 0200 | | | | | (C-223) | |

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

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED

ENCODER: PROVISIONS ONLY

NONE NONE PPR

BRAKE: REGAL SUPPLIED AND MOUNT

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S
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Uncontrolled Copy

NONE

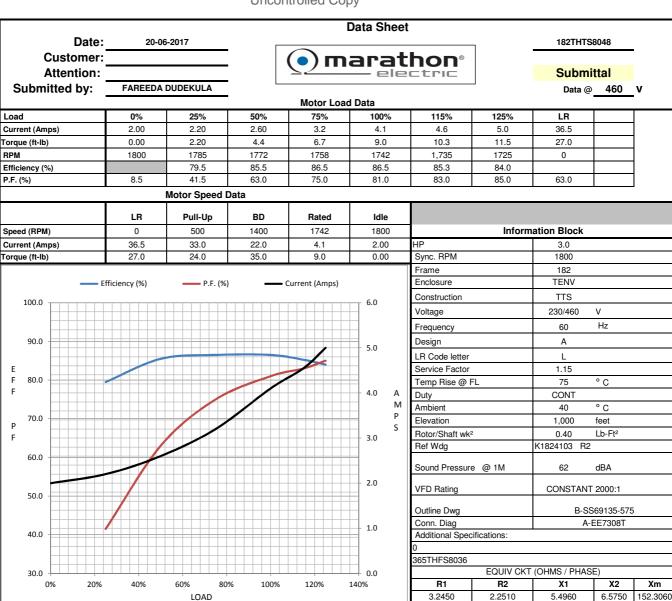
STEARNS P/N 91697-15A2KB

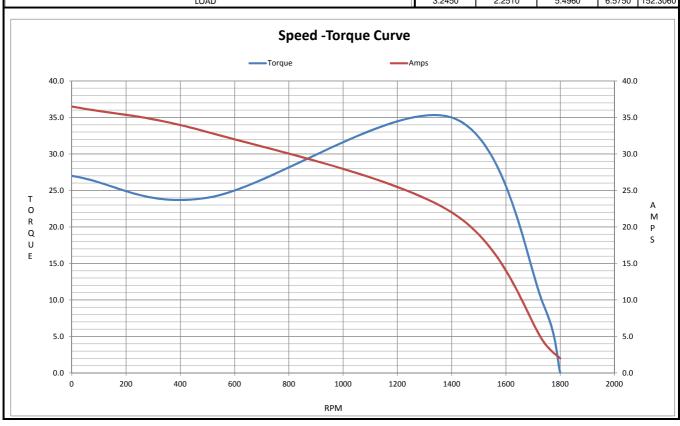
56,000 NEMA 2

15 FT-LB 208-230/460-190/380 V

60/50 Hz

DATE: 06/27/2017 01:19:38 AM FORM 3531 REV.3 02/07/99







EC Declaration of Conformity

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401

and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: 182THTS8048

(Model No. may contain prefix and/or suffix characters)

Catalog No: Y988 Rework No: N/A

Directives:

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Authorized Representative in the Community:

J. cerse

Michael A. Logsdon Vice President, Technology

Julian Clark Marketing Engineer

Created on 09/01/2022

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