PRODUCT INFORMATION PACKET



Model No: 184THTCD8056 Catalog No: Y989A

Blue Max® Inverter Duty Encoder Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 184TC Frame, TENV



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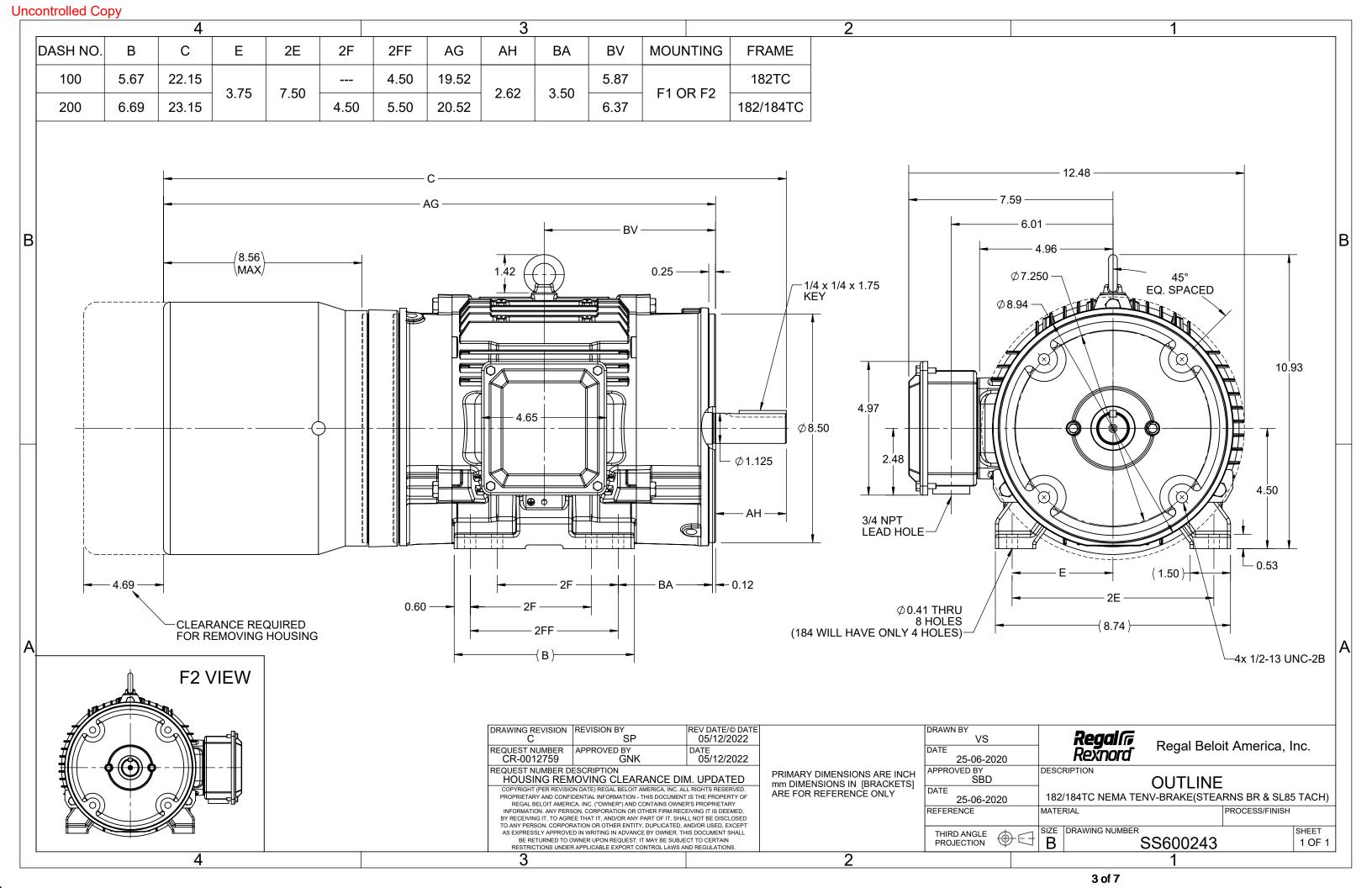
Nameplate Specifications

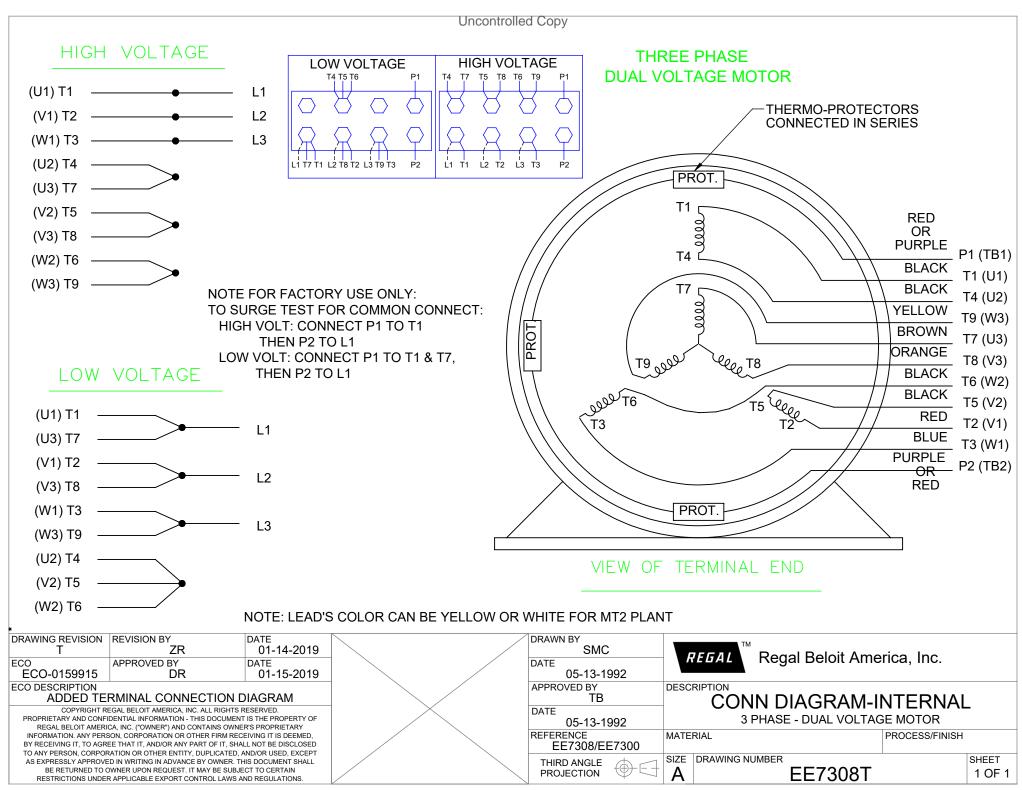
| Output HP | 5 Hp | Output KW | 3.7 kW |
|------------------------|------------|----------------------------|---------------------------------|
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 13.0/6.5 A | Speed | 1760 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 89.5 % | Power Factor | 77 |
| Duty | Continuous | Insulation Class | Н |
| Design Code | INV | KVA Code | L |
| Frame | 184TC | Enclosure | Totally Enclosed Non Ventilated |
| Thermal Protection | Thermostat | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6206 | Opp Drive End Bearing Size | 6206 |
| UL | Recognized | CSA | Υ |
| CE | Υ | IP Code | 55 |
| Number of Speeds | 1 | | |
| | | | |

Technical Specifications

| Electrical Type | Squirrel Cage Inverter Duty | Starting Method | Inverter Only |
|-----------------------|-----------------------------|--------------------|-----------------|
| Poles | 4 | Rotation | Reversible |
| Resistance Main | 2.27 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | Т | Shaft Diameter | 1.125 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | Inverter Load | CONSTANT 2000:1 |
| Outline Drawing | SS600243-200 | Connection Drawing | EE7308T |

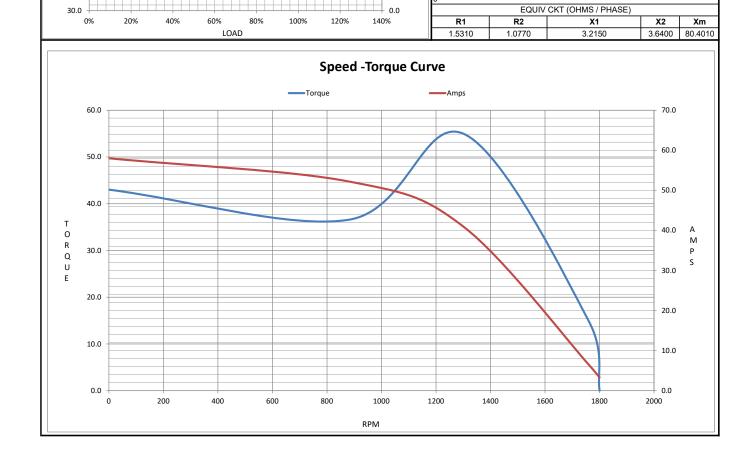
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| P.O. 00 1803 P.O. 1804 P.O. 1805 P | | | | | | | | | | | | | |
|--|--|-----------------------|-------------------|-----------|-------------|--------|--|----------|-------------|-----------|--------------------|---------|--------------|
| PH. 716-675-3311 DATA VOLTS: d60 | | | | | | | | | | | | | |
| CERTIFICATION DATA SHEET | manthon | | | | | | WAUSAU, WI 54401-8003 | | | | | | |
| CERTIFICATION DATA SHEET | | | | | ma | 11.5 | ************************************** | | | PH. 715-6 | 75-3311 | | |
| CERTIFICATION DATA SHEET | | | | | | | | | | | | | |
| CUSTOMER CUSTOMER CUSTOMER CUSTOMER CAT # VISION VIS | | | | | | | 1-101013 | | DAT | A VOLTS: | 460 | | |
| CORDINATION CONTINUE CONTIN | | | | | | CE | RTIFICATION DATA S | HEET | | | | | |
| CORDINATION CONTINUE CONTIN | сизтом | ER: | | | | | | CUSTO | MER P.O. #: | | | | |
| MOUNTINE SAMPLE | | | | | | | R | | | | 8056 | | |
| MADING: | | | | | | | | CAT #: | | | | | |
| SPEED | | | | | | | | | | | | | |
| TYPICAL MOTOR PERFORMANCE DATA | | : | HA31124031 | NONE | 2 | | | | MOUNTING: | F1/F2 CAP | ABLE | | |
| S 3.7 | SPEED: | | | | TY | PICAL | . MOTOR PERFORMA | NCE DA | ATA | | | | |
| S 3.7 | | 1011 | OVALO PRIM | | | | 50.445 | FNO | 001105 | T)/DE | KV4 0005 | | BEOLON |
| PH | HP | KW | SYNC RPM | FL | RPM | | FRAME | ENCI | JOSURE | TYPE | KVA CODE | | DESIGN |
| 3 | 5 | 3.7 | 1800 | 1 | 760 | | 184TC | Т | ENV | TTC | L | | INV |
| 3 | 1 | | | | | | | | | | | | |
| 3 | PH | HZ | VOLTS | A | MPS | | START TYPE | D | UTY | INSL | S.F. | AMB | ELEV. |
| F.L. PP 81.5 | 3 | 60 | 230/460 | 1: | 3/6.5 | | INVERTER ONLY | С | ONT | Н | 1.15 | 40 | 3300 |
| F.L. PP 81.5 | | | | | | | | | | | | | |
| F.L. TORQUE | | | | | | | | | | | | | |
| 14.9 | | F.L. PF | 81.5 | 3/4 LD PF | 75.0 | | 1/2 LD PF | 62.8 | 88.5 | | SQ CAGE I | NV DUTY | |
| 14.9 | E 1 | TOPOUE | I P AMPS @ | 460 V | | I P | TOPOUE | | R D TOPOU | = | E I PISE (° C) | | |
| SOUND PRESSURE @ 3 SOUND POWER ROTOR WK' MAX. LOAD WK' SAFE STALL TIME STARTS/HOUR APROX. MOTOR WGT | | | | 400 V | 39.8 L | | | | | | | | |
| FT. SOUND POWER ROTOR WK' MAX. LOAD WK' SAFE STALL TIME STARTSHOUR APROX MOTOR WGT | | | | | | | | | | | | | |
| Column C | SOUND | | | | | | | | | | | | |
| DE BRACKET TYPE | | | | | | 45 | | | | | | | |
| DE BRACKET TYPE ODE BRACKET TYPE MOTOR ORIENTATION SEVERE DUTY LOCATION COVER SCREENS PAINT | 62 | UDA | / I UDA | ` 0.40 | LD-F1 | 45 | LD-F1 | 15 | SEC. | | | 110 | LD. |
| DE BRACKET TYPE ODE BRACKET TYPE MOTOR CRIENTATION SEVERE DUTY LOCATION COVER SCREENS PAINT | | | | | | *** SL | IPPLEMENTAL INFORMA | TION *** | | | | | |
| C-FACE BRAKE AND ENCODER RIGID HORIZONTAL NO NONE NO NONE BLUE (ENAMEL) | | | | | | | | | | | | | |
| BEARINGS ODE | | | | | | | | | | | | | |
| DE | | C-FACE | BRAKE AND ENCODER | RIGID | HORIZONT | TAL | NO | N | ONE | NO | NONE | В | LUE (ENAMEL) |
| DE | _ | EADINGS | | | | | | | | | | 1 | |
| BALL BALL G206 G206 POLYREXEM T NONE NONE 1045 HOT ROLLED (G-204) CAST IRON | | | GREASE | SHAF | T TYPE | | SPECIAL DE | SPEC | IAL ODE | SHA | FT MATERIAL | FR | AME MATERIAL |
| S206 6206 | | | DOLVDEY EM | | т | | NONE | N | ONE | 1046 | HOT BOLLED (C 204) | | CASTIDON |
| THERMOSTATS PROTECTORS WDG RTD's BRG RTD's THERMISTORS CONTROL | 6206 | 6206 | FOLTREXEM | | ' | | NONE | IN. | ONE | 1043 | HOT ROLLED (C-204) | | CASTIKON |
| THERMOSTATS PROTECTORS WDG RTD's BRG RTD's THERMISTORS CONTROL | | | 1 | | | | | | | | | | |
| TSTATS (N/C) | l | | BROTTOTORO | wo | D. D.T.D.L. | | DDO DTDI | THE | | | CONTROL | SPAC | E HEATERS |
| R1 (ohms/ph) R2 (ohms/ph) X1 (ohms/ph) X2 (ohms/ph) Xm (ohms/ph) ViBRATION (in/sec) FLOAT 1.531 | | | | | | | | | | | | | NΔ |
| 1.531 1.077 3.215 3.64 80.401 0.150 ODE N | - 10 | TATO (14/0) | NOT | | ONE | | NONE | | OIVE | | TALOL | | 1975 |
| 1.531 1.077 3.215 3.64 80.401 0.150 ODE N | R1 | (ohms/ph) | R2 (ohms/ph) | X1 (o | hms/ph) | | X2 (ohms/ph) | Xm (c | hms/ph) | V | IBRATION (in/sec) | | FLOAT |
| N | | 1.531 | 1.077 | 3 | .215 | | 3.64 | 80 | 0.401 | | 0.150 | | ODE |
| N | | | | | | | | | | | | | |
| NV. HP SPEED RANGE: 2.0 X BASE SPEED | 1 | | | | | | | | *** | TOROUE | CONSTANT 2000-1 | | |
| T | R1 (ohms/ph) R2 (ohms/ph) X1 (ohms/ph) X2 (ohms/ph) Xm (ohms/ph) VIBRATION (init | | | | | | | | | | | | |
| E ENCODER: NONE N | | | | | | | | | 0. LL | | | | |
| NONE | | | | | | | | | ENCODER: | NONE | | | |
| NORKE: STEARNS STEARNS | s | | | | | | | | NONE | | | | |
| PREPARED BY: 87,000 NEMA 2 DATE: 8/27/2021 FT-LB: 25 VOLTAGE: 208-230/460-190/380 HZ: | | | | | | | | | | | | NONE | PPR |
| DATE: 8/27/2021 FT-LB: 25 VOLTAGE: 208-230/460-190/380 HZ: | 1 | | | | | | | | | | | | |
| VOLTAGE: 208-230/460-190/380 HZ: | 1 | | 8/27/2021 | | | | | | | 000 | | | |
| | 1 | DATE: | 0/2//2021 | | | | | | | 21 | | | ц 7- |
| | FORM: 3 | M: 3531 REV 4 2/27/06 | | | | | ŀ | UL: | | | | | nz. |

| | | | | | Data S | heet | | | | |
|-----------------|-------------|------------------|----------------|-------|------------|--------------|---------------------------------|-------------|---|----------------|
| Date: 7/26/2022 | | | _ | | 184THTCD80 | 184THTCD8056 | | | | |
| Customer: | | | | nai | a | τι | hon | ® | | |
| Attention: | | | | | | | | Submitte | al | |
| Submitted by: | | | Motors | | | | | | Data | |
| Jubilitted by. | | | | Motor | Load Da | ta | | | Data | <u>@400</u> ♥ |
| .oad | 0% | 25% | 50% | 75% | 100 | | 115% | 125% | LR | |
| Current (Amps) | 3.3 | 3.6 | 4.3 | 5.3 | 6.5 | | 7.2 | 7.8 | 58.0 | |
| orque (ft-lb) | 0.00 | 3.7 | 7.4 | 11.1 | 14. | | 17.2 | 18.8 | 43.0 | |
| PM | 1800 | 1790 | 1780 | 1770 | 176 | | 1,756 | 1750 | 0 | |
| fficiency (%) | | 81.0 | 87.7 | 89.5 | 89. | | 88.8 | 88.5 | 1 | + |
| P.F. (%) | 7.9 | 40.7 | 62.8 | 75.0 | 81. | | 83.8 | 84.9 | 55.1 | 1 |
| 7:-7 | | Motor Speed Da | | | | - | 1 1 | | 1 | |
| Т | | liiotoi opoca Be | | | 1 | | | | | |
| | LR | Pull-Up | BD | Rated | ldl | Э | | | | |
| peed (RPM) | 0 | 880 | 1300 | 1760 | 180 | 0 | | I | nformation Block | |
| Surrent (Amps) | 58.0 | 52.2 | 41.0 | 6.5 | 3.3 | | HP | | 5.0 | |
| orque (ft-lb) | 43.0 | 36.6 | 55.0 | 14.9 | 0.0 | 0 | Sync. RPM | | 1800 | |
| | | | | | | | Frame | | 184 | |
| Effi | iciency (%) | P.F. (%) | Current (Amps) | | | | Enclosure | | TENV | |
| 100.0 | | | | | | | Construction | | TTC | |
| 100.0 | | | | | 9.0 | | Voltage | | 230/460 | V |
| | | | | | | | Frequency | | 60 | Hz |
| 90.0 | | | | | 8.0 | | Design | | INV | |
| | | | | | | | LR Code letter | | L | |
| E | | | | 7.0 | 7.0 | | | | | |
| F 80.0 | | | | | | | Service Factor Temp Rise @ F | | 1.0 | ° C |
| F | | | | | 6.0 | Α | | ·L | | C |
| | | | | | | м | Duty Ambient | | CONT 40 | ° C |
| 70.0 | | | | | | Р | Elevation | | • | |
| P | | | | | 5.0 | S | | | 3,300 | feet Lb-Ft² |
| F | | | | | | | Rotor/Shaft wk² | | 0.40 | LD-FI |
| 60.0 | | | | | 4.0 | | Ref Wdg | | HA31124031 NONE | |
| 00:0 | | | | | | | Sound Pressure | e @ 1M | 62 | dBA |
| | | | | | 3.0 | | | | 1 | |
| 50.0 | | | | | | | VFD Rating | | CONSTANT 2000:1 | |
| | | | | | Η | | Outline Dura | | | |
| | | | | | 2.0 | | Outline Dwg Conn. Diag | | | 308T |
| 40.0 | | | | | | | | ifications: | 1 557 | JUU I |
| .5.0 | | | | | 1.0 | | Additional Specifications: | | | |
| | | | | | \Box | | 0 | | | |
| 30.0 | | | | | 0.0 | | ř | FOUI | V CKT (OHMS / PHASE) | |
| 30.0 + | 400/ | CO0/ 000/ | 4.000/ | 1200/ | 4.400/ | | L | | 1 CONTROL TO THAT | |





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: 184THTCD8056

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

Catalog No: Y989A

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. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

(€ 22