PRODUCT INFORMATION PACKET



Model No: 324THFCD8038

Catalog No: Y513A

Blue Max® Inverter Duty Encoder Motor, 40 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 324TC Frame, TEBC-AXIAL



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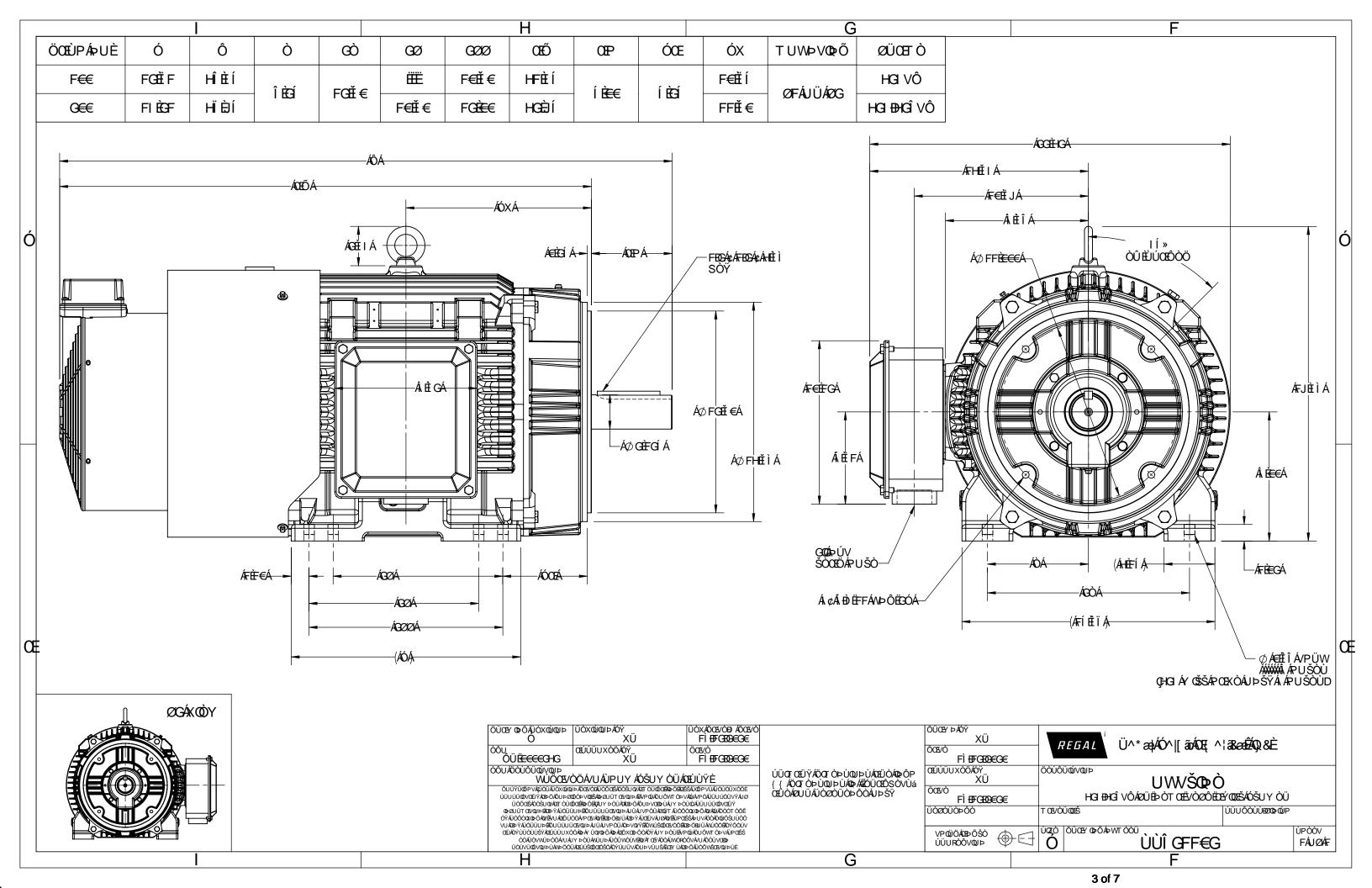
Nameplate Specifications

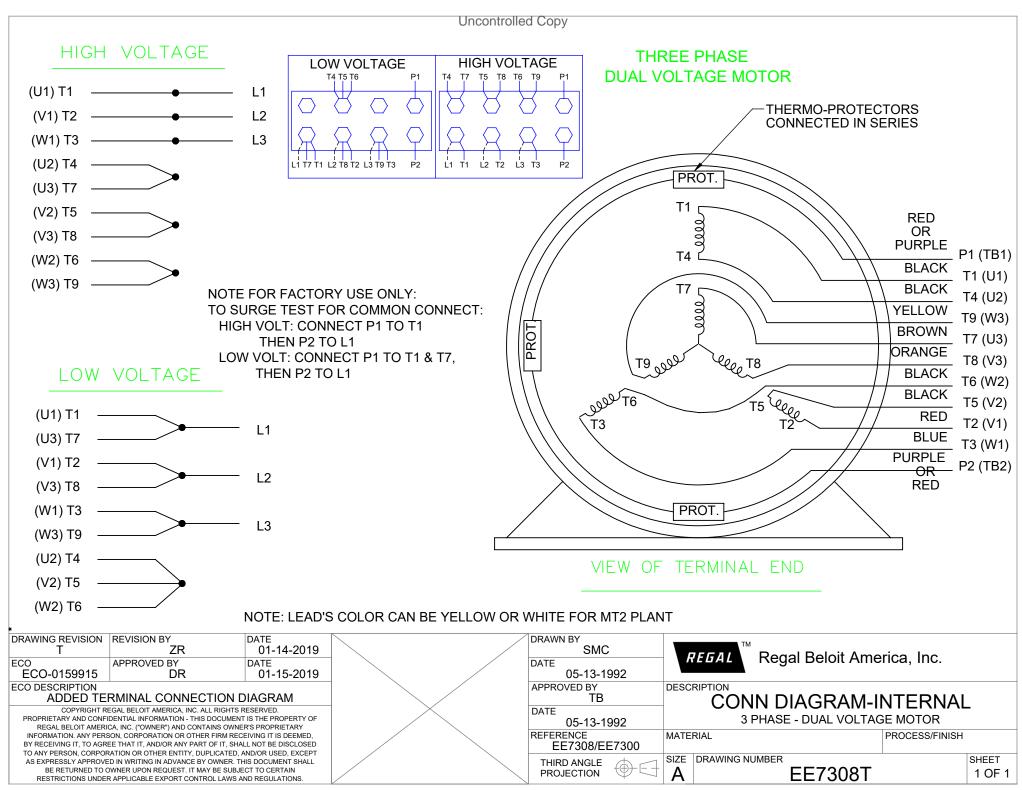
| Output HP | 40 Hp | Output KW | 30.0 kW |
|------------------------|-------------|----------------------------|--|
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 89.0/44.5 A | Speed | 1775 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 92.4 % | Power Factor | 89.5 |
| Duty | Continuous | Insulation Class | Н |
| Design Code | INV | KVA Code | н |
| Frame | 324TC | Enclosure | Totally Enclosed Blower cooled - Axial |
| Thermal Protection | Thermostat | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6212 |
| UL | Recognized | CSA | Υ |
| CE | Υ | IP Code | 55 |
| Number of Speeds | 1 | | |

Technical Specifications

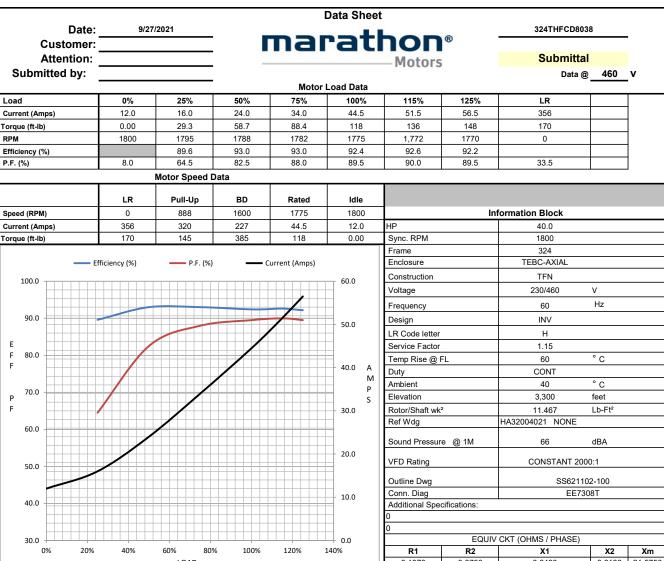
| Electrical Type | Squirrel Cage Inverter Duty | Starting Method | Inverter Only | | |
|-----------------------|-----------------------------|--------------------|-----------------|--|--|
| Poles | 4 | Rotation | Reversible | | |
| Resistance Main | .2192 Ohms | Mounting | Rigid Base | | |
| Motor Orientation | Horizontal | Drive End Bearing | Ball | | |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron | | |
| Shaft Type | Т | Shaft Diameter | 2.125 in | | |
| Assembly/Box Mounting | F1/F2 CAPABLE | Inverter Load | CONSTANT 2000:1 | | |
| Outline Drawing | SS621102-100 | Connection Drawing | EE7308T | | |

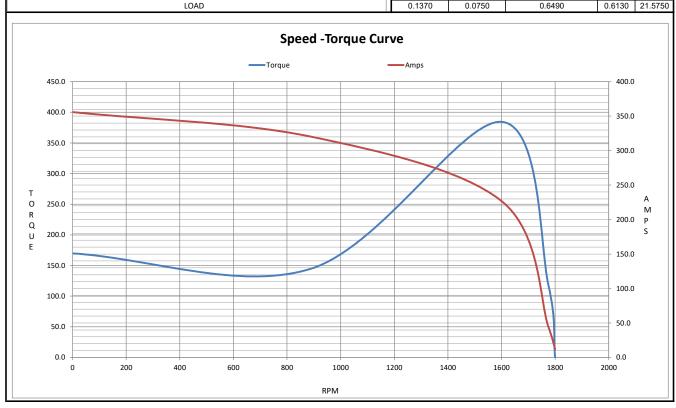
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| | | | | | P.O. BOX 8003 | | | | | | | | |
|--------------------------|--------------------------|------------------|---------------|-------------------------------|---|---------------------------|---------------------------------------|-------------|-------------------------|-----------------|----------------|------------------|--|
| | | | | | WAUSAU, WI 54401-8003 | | | | | | | | |
| marathon® | | | | | | PH. 715-675-3311 | | | | | | | |
| | | | | | | Motors | | | | | | | |
| | | | | | | 1-101013 | | DAT | A VOLTS: | 460 | | | |
| | CERTIFICATION DATA SHEET | | | | | | | | | | | | |
| CUSTOM | CUSTOMER: | | | | | | CUSTO | MER P.O. #: | | | | | |
| ORDER # | | | | | | REFERENCE MODEL #: | | | | | | | |
| CONN. DIAGRAM: | | EE7308T | | | | | CAT # | | | | | | |
| OUTLINE | | SS621102-100 | | | | | CUSTOMER PART # | | | | | | |
| WINDING | : | HA32004021 | NONE | 2 | | | | MOUNTING: | F1/F2 CAP | ABLE | | | |
| SPEED: | | | | TY | /PICAL | MOTOR PERFORMA | NCE DA | ATA | | | | | |
| НР | кw | SYNC RPM | - | RPM | | FRAME | | | | | | DESIGN | |
| | | SINCKEW | | . KFW | | | ENCLOSURE | | | KVA CODE | | DESIGN | |
| 40 | 30 | 1800 | 1 | 775 | | 324TC | TEBC-AXIAL | | TFN | Н | | INV | |
| | | | | | | | | | | | | | |
| PH | HZ | VOLTS | | MPS | | START TYPE | | UTY | INSL | S.F. | AMB | ELEV. | |
| 3 | 60 | 230/460 | 89 | /44.5 | | INVERTER ONLY | С | ONT | Н | 1.15 | 40 | 3300 | |
| | F.L. EFF | 92.4 | 3/4 LD EFF | 93.0 | | 1/2 LD EFF | 93.0 | GTD EFF | | ELECT. | TYPE | | |
| | F.L. PF | | 3/4 LD PF | 88.0 | | 1/2 LD PF | 82.5 | 91.7 | | SQ CAGE I | | | |
| | | | | | | | | | | | | | |
| | TORQUE | LR AMPS @ | 460 V | | | TORQUE | | B.D. TORQU | | F.L. RISE (° C) | | | |
| 118 | LB-FT | 356 | | 170 L | _B-FT | 144% | 385 | LB-FT | 326% | 60 | | | |
| SOLIND | PRESSURE @ 3 | 1 | | | | | | | 1 | | 1 | | |
| SOUND | FT. | SOUND POWER | ROT | OR WK² | | MAX. LOAD WK ² | SAFE S | TALL TIME | | STARTS/HOUR | APROX. | MOTOR WGT | |
| 66 | dBA | 75 dBA | 11.467 | LB-FT ² | 50 | LB-FT ² | 25 SEC. | | | 2 | | LB. | |
| | | | , | | | | | | | | | | |
| | | | | | *** SL | IPPLEMENTAL INFORMA | | | | | | | |
| DE DE | RACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIEN | ITATION | SEVERE DUTY | | RDOUS | DRIP COVER | SCREENS | | PAINT | |
| | C-FACE | ENCODER | RIGID | HORIZON" | | | NONE | | NO NONE | | BLUE (ENAMEL) | | |
| | 017102 | ENOUSEIN | 141010 | HOMEON | | | | 0.12 | 110 | HOHE | | LOC (LIV WILL) | |
| В | EARINGS | GREASE | SHAF | T TYPE | | SPECIAL DE | SPECIAL ODE | | SHAFT MATERIAL | | FRAME MATERIAL | | |
| DE | ODE | | | | | * | | | 0 | O.D. I. III. | | TO THE HAT EXTRE | |
| BALL | BALL | POLYREX EM | | T | | NONE | NONE | | 1045 HOT ROLLED (C-204) | | CAST IRON | | |
| 6312 | 6212 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| THE | RMOSTATS | PROTECTORS | WDC | RTD's | | BRG RTD's | THER | MISTORS | | CONTROL | SPAC | E HEATERS | |
| TS | TSTATS (N/C) NOT | | N | NONE NONE | | NONE | | FALSE | | | NA | | |
| | | | | | | | | | | | | | |
| R1 | (ohms/ph) 0.137 | R2 (ohms/ph) | | hms/ph) .649 | | | | hms/ph) | VIBRATION (in/sec) | | FLOAT | | |
| | 0.137 | 0.075 | U | .040 | | 0.613 | | 1.575 | 1 | 0.150 | | ODE | |
| * | | | | | | | | | | | | | |
| N | | | | | | | INVERTER TORQUE: CONSTANT 2000:1 | | | | | | |
| 0 | | | | | | | INV. HP SPEED RANGE: 1.5 X BASE SPEED | | | | | | |
| Т | | | | | | | | | | | | | |
| E | | | | | | | ENCODER: NONE | | | | | | |
| S | | | | | NONE NONE PPR | | | | | | | | |
| <u> </u> | | | | | | | | NONE . | NONE | | NUNE | PPK | |
| PREPARED BY: | | | | BRAKE: NONE NONE NONE NONE | | | | | | | | | |
| 1 | DATE: 9/27/2021 | | | | | FT-LB: NA | | | | | | | |
| 1 | | | | | | VOLTAGE: NONE HZ: | | | | | | | |
| FORM: 3531 REV_4 2/27/06 | | | | | UL: V-INS, CONST, OVERHEAT PRT DEV UL REC | | | | | | | | |







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: 324THFCD8038

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

Catalog No: Y513A

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:

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark Marketing Engineer