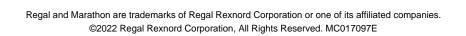
PRODUCT INFORMATION PACKET



Model No: 213THFS8028 Catalog No: Y595

Blue Max® Inverter Duty Encoder Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 213TC Frame, TEFC









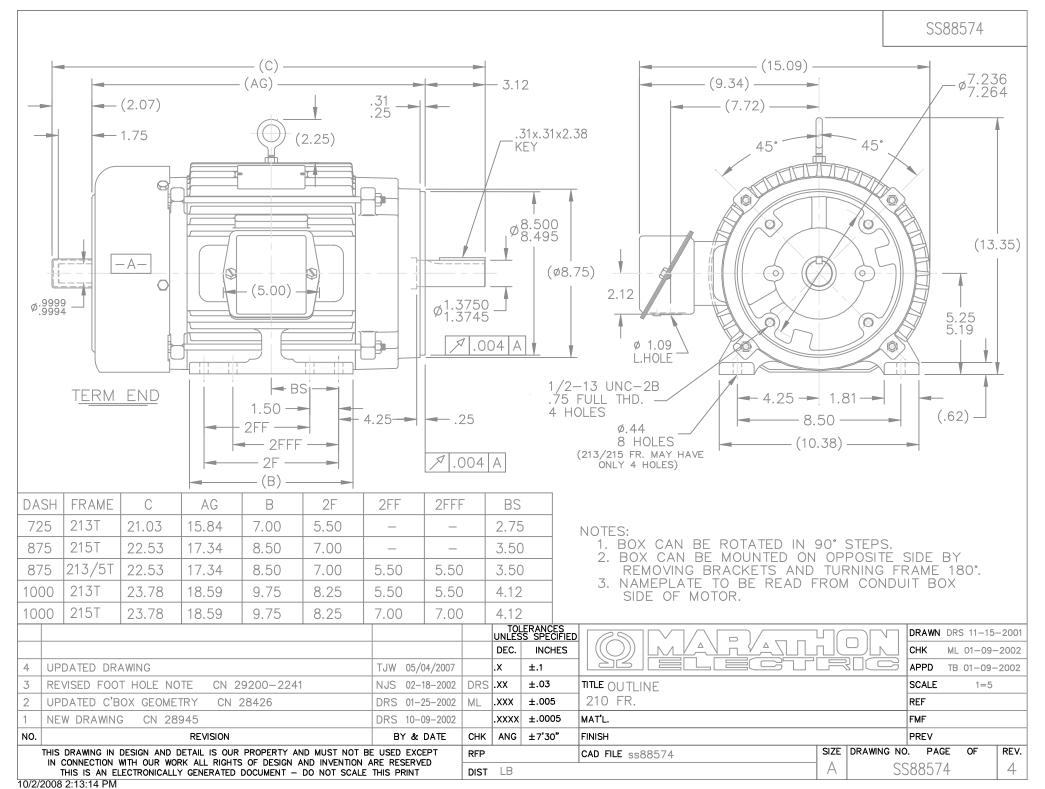
Nameplate Specifications

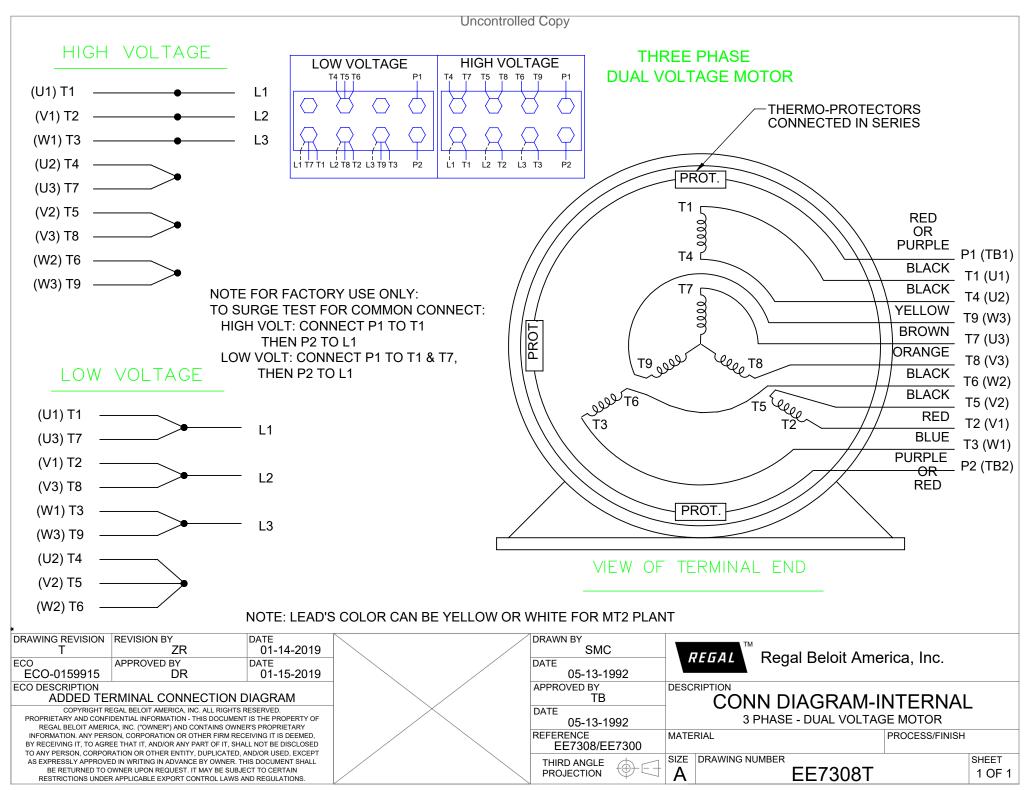
| Output HP | 7.50 Hp | Output KW | 5.6 kW |
|------------------------|------------|----------------------------|-----------------------------|
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 19.4/9.7 A | Speed | 1765 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 88.5 % | Power Factor | 81 |
| Duty | Continuous | Insulation Class | Н |
| Design Code | INV | KVA Code | L |
| Frame | 213TC | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | Thermostat | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6309 | Opp Drive End Bearing Size | 6207 |
| 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 | 1.26 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 | 21.03 in |
| Frame Length | 7.25 in | Shaft Diameter | 1.375 in |
| Shaft Extension | 3.12 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Inverter Load | CONSTANT 2000:1 | | |
| Connection Drawing | A-EE7308T | Outline Drawing | A-SS88574-725 |

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CERTIFICATION DATA SHEET

 Model#:
 213THFS8028 CS
 WINDING#:
 K2134181 R2 1

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

OUTLINE: A-SS88574-725

TYPICAL MOTOR PERFORMANCE DATA

| НР | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-----|-----------|----------|-------|-----------|----------|--------|
| 7 1/2 | 5.6 | 1800 | 1765 | 213TC | TEFC | L | INV |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|---------|----------|------------|-----------|------|-----|-------|-----------|
| 3 | 60 | 230/460 | 19.4/9.7 | INVERTER | CONTINUOU | H4 | 1.0 | 40 | 3300 |
| | | | | ONLY | S | | | | |

| FULL LOAD EFF: 88.5 | 3/4 LOAD EFF: 88.5 | 1/2 LOAD EFF: 86.5 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---------------------|--------------------|--------------------|----------|------------------|--------------|
| FULL LOAD PF: 81 | 3/4 LOAD PF: 76.5 | 1/2 LOAD PF: 66.5 | 86.5 | SQ CAGE INV DUTY | 8.4 / 4.2 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|--------------|--------------|-------------|
| 22.5 LB-FT | 176 / 88 | 60 LB-FT 267 | 89 LB-FT 396 | 55 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---------------------------|-------------|-------------|-----------|-----------------|-----------------|----------------------|
| 72 dBA | 82 dBA | 0.8 LB-FT^2 | 0 LB-FT^2 | 0 SEC. | 0 | 192 LBS. |

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

| R1 | R2 | X1 | X2 | ХМ |
|---------|---------|---------|--------|--------|
| 0.78624 | 0.66906 | 2.50614 | 3.8934 | 63.882 |
| RM | ZREF | XR | TD | TD0 |
| 2207.52 | 37.8 | 2.5 | 0.011 | 0.269 |

*** SUPPLEMENTAL INFORMATION ***

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

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT | FRAME |
|----------|------|------------|------------|------------|-------------|----------------|-----------|
| DE | OPE | | | | | MATERIAL | MATERIAL |
| BALL | BALL | POLYREX EM | Т | NONE | NONE | 1045 HOT | CAST IRON |
| 6309 | 6207 | | | | | ROLLED (C-204) | |

| THERMO-PROTECTORS | | | | 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

DYNAPAR HS35 NONE NONE PPR

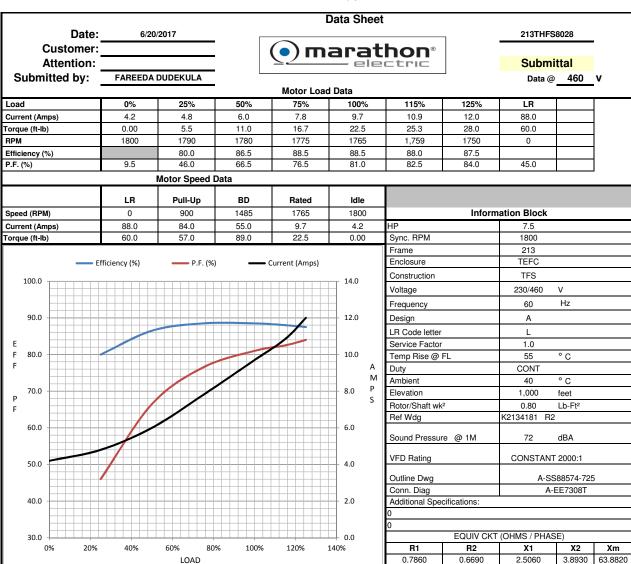
BRAKE: NONE NONE NONE P/N NONE

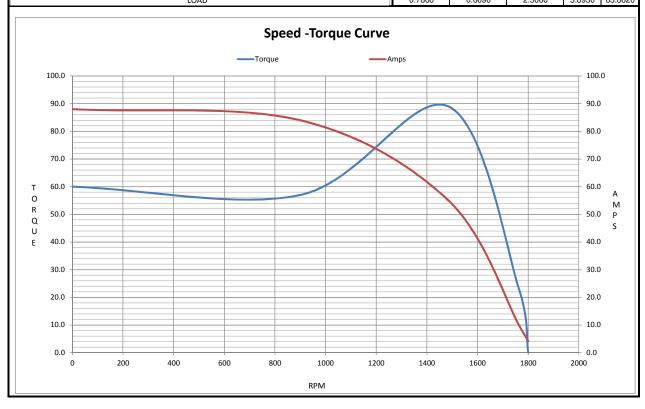
* N O T E S *

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| NONE | NONE | | |
|-----------|------|--------|---------|
| NONE FT-L | В | NONE V | NONE Hz |

DATE: 06/22/2017 03:56:09 AM FORM 3531 REV.3 02/07/99 ** Subject to change without notice.







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: 213THFS8028

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

Catalog No : Y595
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

Julian Clark

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

, Technology Marketing Engineer

(€ 22