PRODUCT INFORMATION PACKET



Model No: 405THFCD9036 Catalog No: W600A

XRI®-841 Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 405T Frame, TEFC



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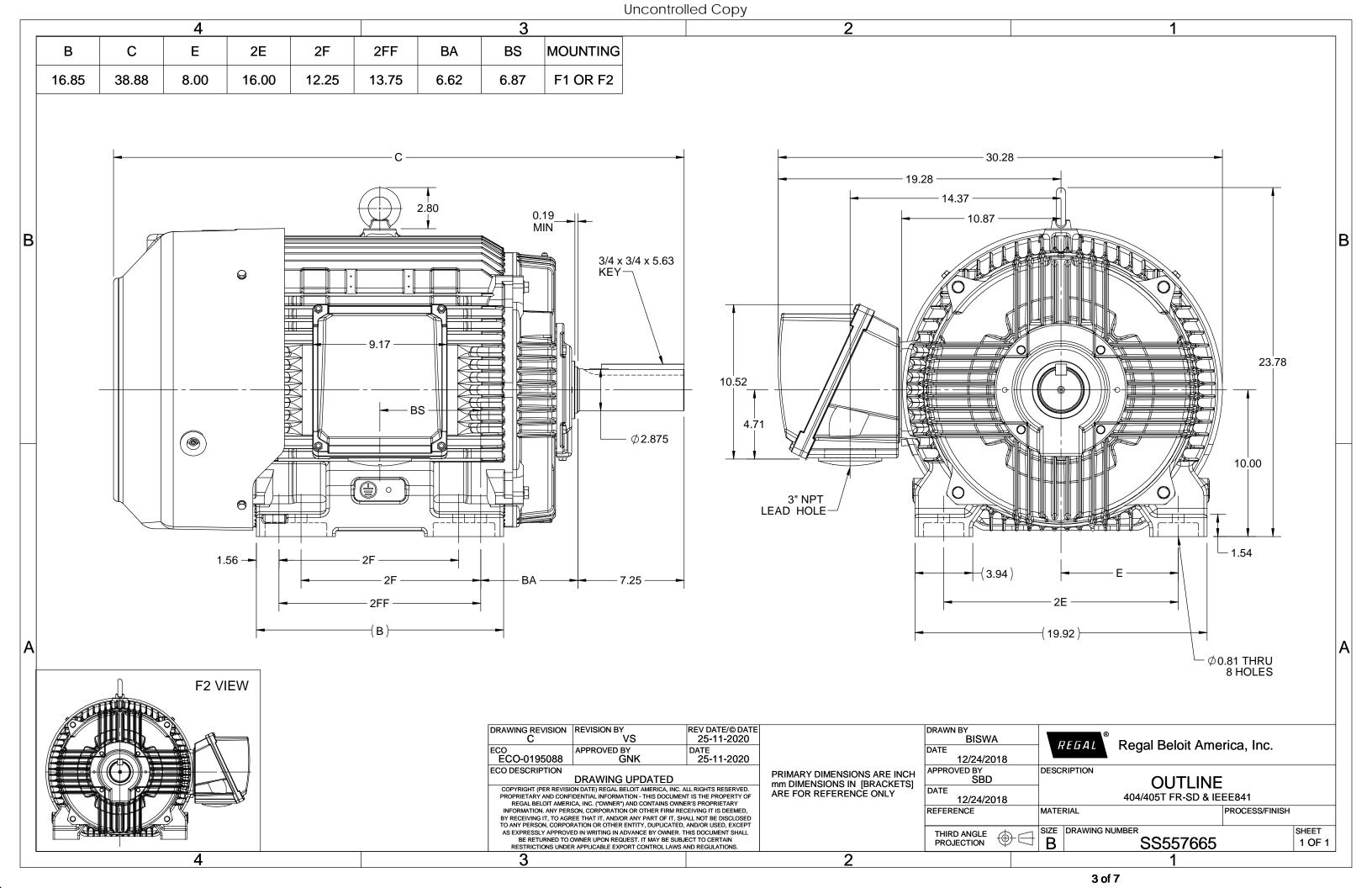
Nameplate Specifications

| Phase | 3 | Output HP | 100 Hp |
|------------------------|---------------|----------------------------|-----------------------------|
| Output KW | 75.0 kW | Voltage | 460 V |
| Speed | 1785 rpm | Service Factor | 1.15 |
| Frame | 405T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 95.4 % |
| Ambient Temperature | 40 °C | Frequency | 60 Hz |
| Current | 113.0 A | Power Factor | 87 |
| Duty | Continuous | Insulation Class | н |
| Design Code | В | KVA Code | G |
| Drive End Bearing Size | 6316 | Opp Drive End Bearing Size | 6314 |
| UL | Listed | CSA | Υ |
| CE | Υ | IP Code | 56 |
| Number of Speeds | 1 | Hazardous Location | DIVISION 2 T2B |
| | | | |

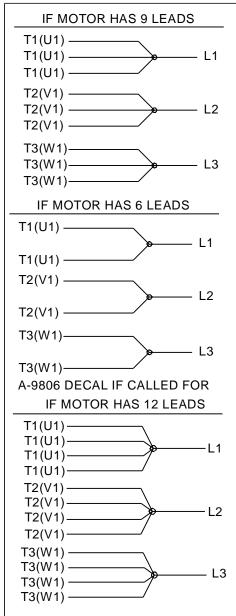
Technical Specifications

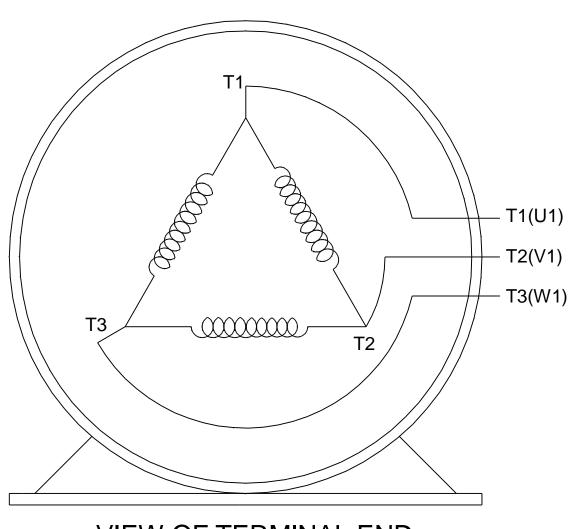
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
|-----------------------|------------------------------|--------------------|----------------------------|
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .0555 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | Т | Shaft Diameter | 2.875 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | Inverter Load | CONSTANT 2:1/VARIABLE 10:1 |
| Outline Drawing | SS557665 | Connection Drawing | EE7300U |

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Uncontrolled Copy





VIEW OF TERMINAL END

| DRAWING REVISION | REVISION BY | DATE |
|------------------|-------------|------------|
| L | AJW | 05-04-2015 |
| ECO | APPROVED BY | DATE |
| ECO-0077067 | EWH | 05-05-2015 |
| ECO DESCRIPTION | | |

UPDATED TO SOLIDWORKS

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| IOLLINA | TINGES ON | ILLUU | |
|---------|-----------|--------------|--------------|
| OTHER' | WISE SPE | CIFIED: | |
| DEC. | INCH | <u>mm</u> | <u>ANGLE</u> |
| .X | ±0.1 | [±2.5] | ±7' 30" |
| .XX | | [±0.51] | |
| XXX | ±0.005 | [±0.127] | |
| .XXXX | ±0.0005 | [±0.0127] | |
| REMOV | E BURRS | & BREAK S | HARP |
| EDGES: | .003/.015 | [.076/.381] | X 45° |
| CORNE | R FILLETS | S: R.02 [.51 |] |
| MACHIN | IED SURF | ACES: 200 | |
| | | INCH ∨ | mm 🗸 |
| mm SHO | OWN IN [E | BRACKETS] | |

TOLERANCES LINLESS

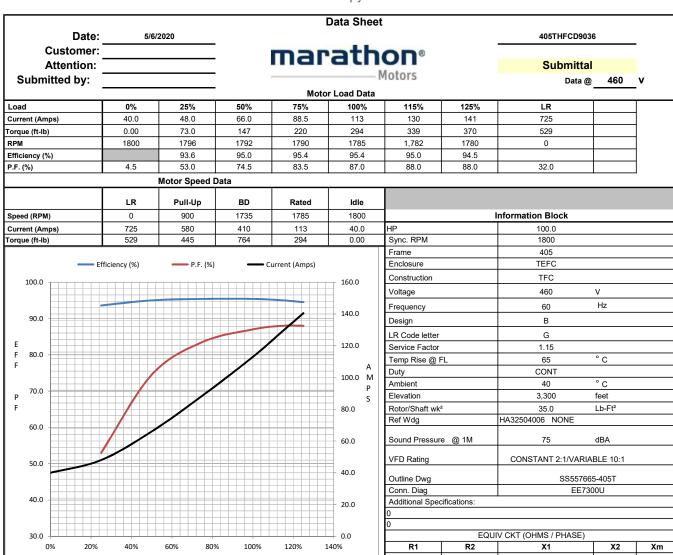
| | DRAWN BY DRS DATE 09-27-1996 | | REGAL Regal Beloit Ame | rica, Inc. | |
|---|---------------------------------|------|-----------------------------------|----------------|-----------------|
| | APPROVED BY GK DATE 09-30-1996 | DESC | CONN DIAGRAM-E 3Ø SINDLE VOLTA | | L |
| , | REFERENCE | MATE | RIAL | PROCESS/FINISH | |
| | THIRD ANGLE PROJECTION | SIZE | DRAWING NUMBER EE7300U | | SHEET 1 OF 1 |

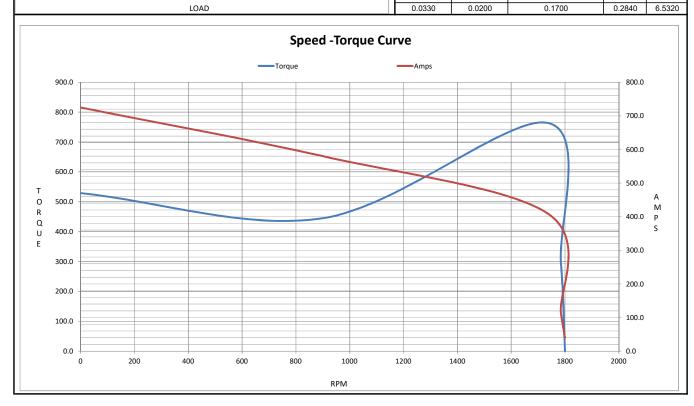


DATA VOLTS: 460

CERTIFICATION DATA SHEET

| | | | | | | CER | TIFICATION DATA S | HEET | | | | | |
|--------------|--------------------------|------------------------|--------|---|--------------------|--------------------------|----------------------------------|---------------------|-----------------------|---------------------------|--|-----------|-------------|
| CONN. DIA | | EE7300U SS557665-40 | net. | | | | F | REFERENC | E MODEL #: CAT #: | 405THFCD903 | 86 600A | | - |
| WINDING: | | | 504006 | NONE | 1 | | | 1 | MOUNTING: | F1/F2 CAPABI | LE | | |
| | | | | | TY | PICAL I | MOTOR PERFORMA | NCE DA | ATA | | | | |
| HP | KW | SYNC R | РМ | FL RI | PM | FRAME ENCLOSURE | | OSURE | TYPE KVA CO | | DESIG | | |
| 100 | 75 | 1800 | | 1785 | | 405T | | TEFC | | TFC G | | | В |
| PH | HZ | VOLT | s | AMP | 'S | | START TYPE | D | UTY | INSL | S.F. | AMB (° C) | ELEV. (Ft |
| 3 | 60 | 460 | | 113 | | L | INE OR INVERTER | | ONT | Н | 1.15 | 40 | 3300 |
| | F.L. EFF | 95.4 87.0 | ; | 3/4 LD EFF 3/4 LD PF | 95.4 83.5 | | 1/2 LD EFF 1/2 LD PF | 95.0 74.5 | GTD EFF 95.0 | | ELECT. T' | | |
| | | | | 3/4 LD FF | 03.3 | | | 74.5 | | | | | |
| | ORQUE LB-FT | LF | 725 | | 529 | L.R LB-FT | 180% | 764 | B.D. TORQ LB-FT | 260% | F.L. RISE 65 | : (° C) | |
| SOUND P | RESSURE | SOUN | D | ROTOR WK ² MAX. LOAD WK ² | | SAFE S | TALL TIME | LL TIME STARTS/HOUR | | API | ROX. | | |
| | dBA | 84 dE | | | LB-FT ² | 575 | LB-FT ² | 25 | SEC. | 0.7 | 2 | | LB. |
| DE BRAC | KET TYPE | ODE BRAC | | MOUNT TYPE | | *** SUP TOR TATION | PLEMENTAL INFORMA SEVERE DUTY | HAZA | RDOUS | DRIP COVER | SCREENS | PA | INT |
| STAN | IDARD | STANDA | RD | RIGID | HORIZ | ONTAL | PREMIUM SEVERE DUTY | DIVISI | ON 2 T2B | NO | NONE | BLUE (| EPOXY) |
| BEAF DE | RINGS | GREAS | SE | SHAFT | TYPE | | SPECIAL DE | SPEC | IAL ODE | SHAFT | MATERIAL | FRAME N | MATERIAL |
| BALL 6316 | BALL 6314 | POLYREX | KEM | Т | | NONE | | NONE | | 1045 HOT ROLLED (C-204) | | CAST IRON | |
| THERM | OSTATS | PROTECT | ORS | WDG R | TD's | | BRG RTD's | THER | MISTORS | CON | ITROL | | ACE TERS |
| NC | ONE | NOT | | NON | E | | NONE | N | ONE | F.A | ALSE | 1 | NA. |
| | nms/ph) 033 | R2 (ohms 0.02 | · / + | X1 (ohm 0.17 | <u> </u> | | X2 (ohms/ph) 0.284 | | hms/ph) .532 | | ON (in/sec) 080 | | |
| * N O T | | | | | | | | If Inverter 6 | INVERT | ER TORQUE: PEED RANGE: | for further inforr CONSTANT 2:1 NONE | | 10:1 |
| \$ * | | | | | | | | l l | NONE NONE | | | NONE | PPR |
| PREP | ARED BY: | 5/13/20 | 20 | | | | | | BRAKE: N FT-LB: | ONE | NON NA | E | |
| | 531 REV_4 to change w | 2/27/06 ithout notice. | | | | | | | VOLTAGE: | N | ONE | | HZ: |







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: 405THFCD9036

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

Catalog No: W600A

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

C€ 22