

PRODUCT INFORMATION PACKET



Model No: 143TTDR16037

Catalog No: E912A

General Purpose Motor, 1 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 143T Frame, DP



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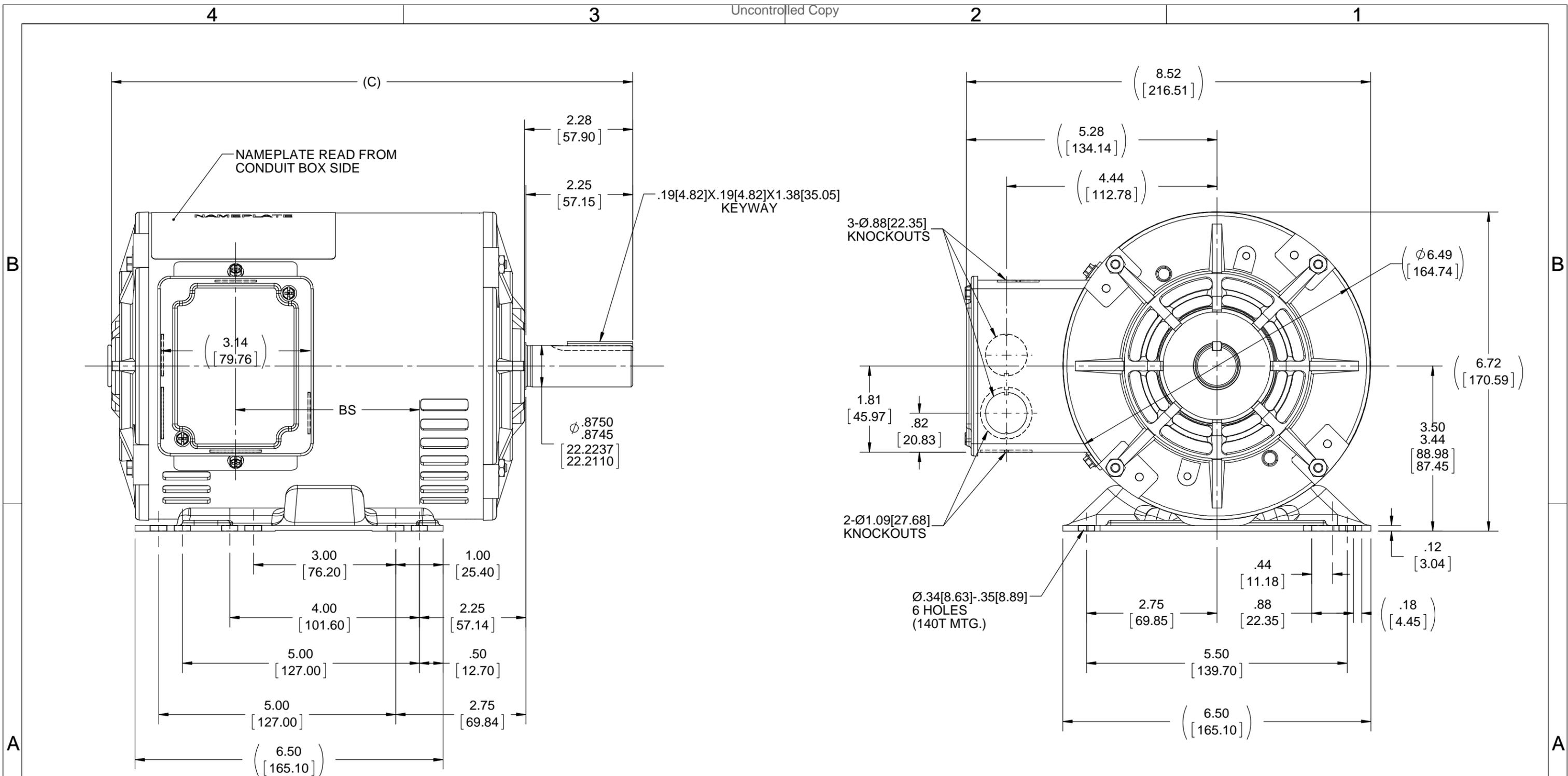


Nameplate Specifications

| | | | |
|------------------------|----------------------|----------------------------|-------------------|
| Phase | 3 | Output HP | 1 Hp |
| Output KW | 0.75 kW | Voltage | 575 V |
| Speed | 1760 rpm | Service Factor | 1.15 |
| Frame | 143T | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Efficiency | 85.5 % |
| Ambient Temperature | 40 °C | Frequency | 60 Hz |
| Current | 1.2 A | Power Factor | 71 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | N |
| Drive End Bearing Size | 6205 | Opp Drive End Bearing Size | 6203 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 22 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | 13.6 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | T | Overall Length | 12.99 in |
| Frame Length | 9.06 in | Shaft Diameter | 0.875 in |
| Shaft Extension | 2.28 in | Assembly/Box Mounting | F1 ONLY |
| Inverter Load | CONSTANT 10:1 | | |
| Connection Drawing | EE7300 | Outline Drawing | 100085-906 |



NOTES:
1. CONDUIT BOX CAN BE ROTATED 180°.

| DASH NO. | "C" | "BS" |
|----------|---------------|--------------|
| 706 | 10.99[279.14] | 3.87[98.29] |
| 756 | 11.49[291.84] | 4.37[110.99] |
| 806 | 11.99[304.54] | 4.87[123.69] |
| 856 | 12.49[317.24] | 5.37[136.39] |
| 906 | 12.99[329.94] | 5.87[149.09] |
| 956 | 13.49[342.64] | 6.37[161.79] |

| DRAWING REVISION | REVISION BY | DATE |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| E | A. KEETHA | 01-09-2018 |
| ECO-0143026 | APPROVED BY PST | DATE 04/11/2018 |
| ECO DESCRIPTION | | |
| OUTLINE CONVERSION PROJECT | | |
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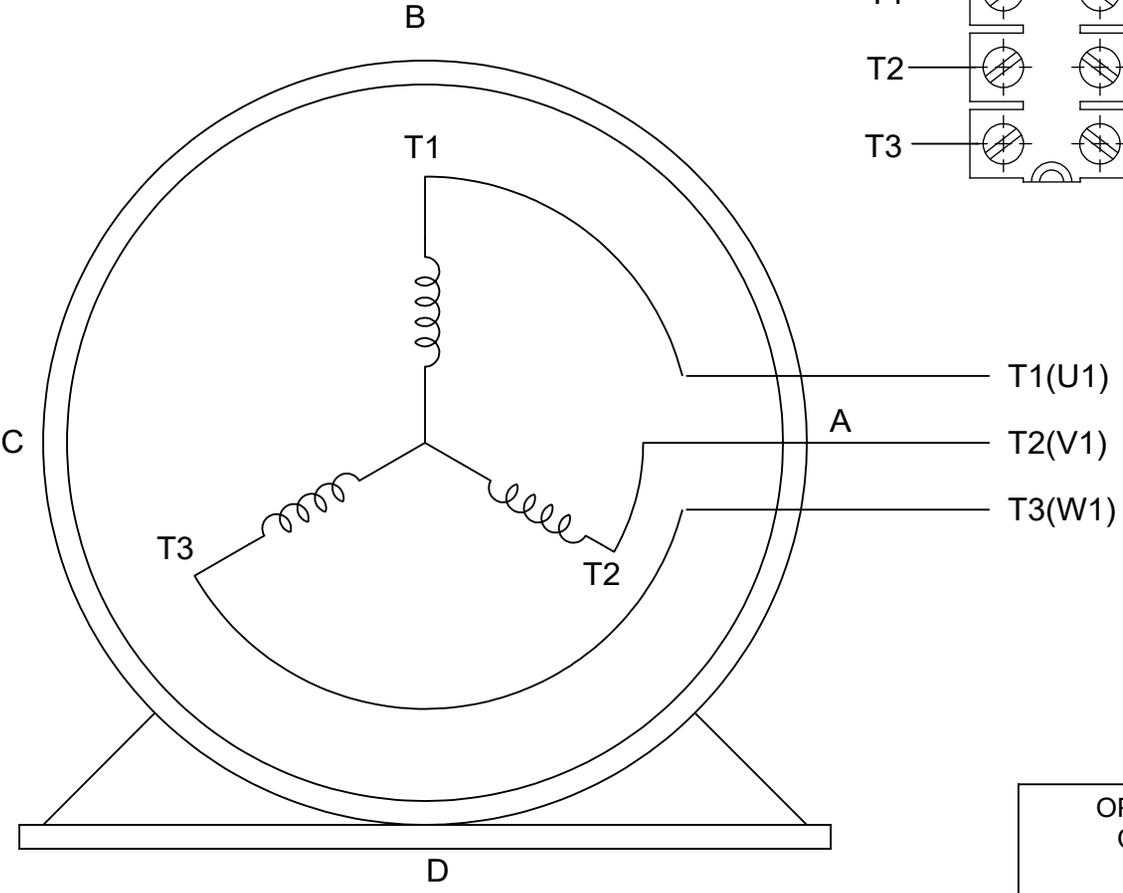
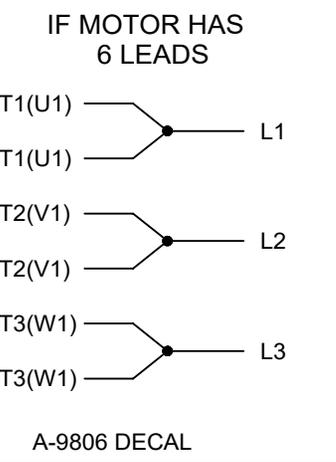
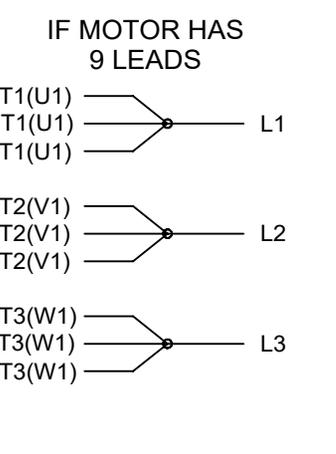
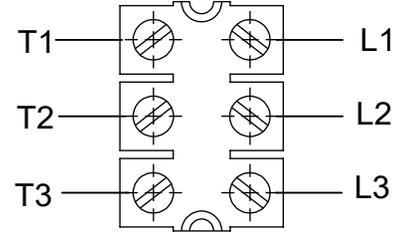
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|--------------|
| DEC. | INCH | mm | ANGLE |
| .X | \pm 0.1 | [\pm 2.5] | \pm 7' 30" |
| .XX | \pm 0.03 | [\pm 0.76] | |
| .XXX | \pm 0.005 | [\pm 0.127] | |
| .XXXX | \pm 0.0005 | [\pm 0.0127] | |
| REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] MACHINED SURFACES: 200 INCH/mm 5.1 mm SHOWN IN [BRACKETS] | | | |

| DRAWN BY | | REGAL™ Regal Beloit America, Inc. | |
|---------------------------------------------------------------|--|-----------------------------------|-----------------------|
| GK <td colspan="2">DESCRIPTION</td> | | DESCRIPTION | |
| DATE 02-04-1988 <td colspan="2">OUTLINE</td> | | OUTLINE | |
| APPROVED BY FG <td colspan="2">140T & 56HZ - DR.PR. </td> | | 140T & 56HZ - DR.PR. | |
| DATE 02-04-1998 <td colspan="2">MATERIAL</td> | | MATERIAL | |
| REFERENCE 100085 <td colspan="2">PROCESS/FINISH </td> | | PROCESS/FINISH | |
| THIRD ANGLE PROJECTION | | SIZE B | DRAWING NUMBER 100085 |
| | | | SHEET 1 OF 1 |

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TERMINAL BLOCK WHEN SPECIFIED

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

OPTIONAL CORD CONNECTION

| | |
|----|-------|
| L1 | WHITE |
| L2 | RED |
| L3 | BLACK |

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| DRAWING REVISION AC | REVISION BY BS | REV DATE/© DATE 26/07/2022 |
| REQUEST NUMBER CR-0010402 | APPROVED BY SN | DATE 26/07/2022 |
| REQUEST NUMBER DESCRIPTION DRAWING UPDATED | | |
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

| |
|------------------------|
| DRAWN BY DA |
| DATE 03-26-1993 |
| APPROVED BY TB |
| DATE 03-26-1993 |
| REFERENCE |
| THIRD ANGLE PROJECTION |

| | | |
|----------------------------|---------------------------------|----------------------------------------------------------------------------------|
| Regal Beloit America, Inc. | | |
| | | DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR |
| MATERIAL | PROCESS/FINISH | |
| SIZE A | DRAWING NUMBER EE7300 | SHEET 1 OF 1 |

CERTIFICATION DATA SHEET

Model#: 143TTDR16037 AA
CONN. DIAGRAM: A-EE7300
OUTLINE: A-100085-906

WINDING#: ZT4259 NONE 5
ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|-----|-----------|----------|-------|-----------|----------|--------|
| 1 | .75 | 1800 | 1760 | 143T | DP | N | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|-------|---------|------------------|------------|------|------|-------|-----------|
| 3 | 60 | 575 | 1.2 | LINE OR INVERTER | CONTINUOUS | F3 | 1.15 | 40 | 3300 |

| FULL LOAD EFF: 85.5 | 3/4 LOAD EFF: 84.6 | 1/2 LOAD EFF: 81.3 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---------------------|--------------------|--------------------|----------|-------------------|--------------|
| FULL LOAD PF: 71 | 3/4 LOAD PF: 62.6 | 1/2 LOAD PF: 49.8 | 82.5 | SQ CAGE INV RATED | .8 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|----------------|----------------|-------------|
| 3 LB-FT | 11.6 | 11.2 LB-FT 373 | 15.4 LB-FT 513 | 21 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|---------------|------------|-----------------|--------------|-------------------|
| 56 dBA | 66 dBA | 0.117 LB-FT^2 | 10 LB-FT^2 | 20 SEC. | 2 | 0 LBS. |

***** SUPPLEMENTAL INFORMATION *****

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|---------------|
| STANDARD | STANDARD | RIGID | HORIZONTAL | FALSE | NONE | FALSE | NONE | BLUE (POWDER) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|--------------------------|----------------|
| DE | OPE | | | | | | |
| BALL | BALL | POLYREX EM | T | NONE | NONE | 1144 STRESSPROOF (C-223) | ROLLED STEEL |
| 6205 | 6203 | | | | | | |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE /n HEATERS |
|-------------------|------------|----------|----------|-------------|---------|------------------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

If Inverter equals NONE, contact factory for further information

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N
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| |
|--------------------------------------------------------------------------|
| INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE |
| ENCODER: NONE NONE NONE NONE NONE PPR |
| BRAKE: NONE NONE NONE P/N NONE NONE NONE - FT-LB NONE V NONE Hz |

DATE: 06/22/2017 06:56:04 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 16-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA

143TTDR16037



Submittal

Data @ 575 V

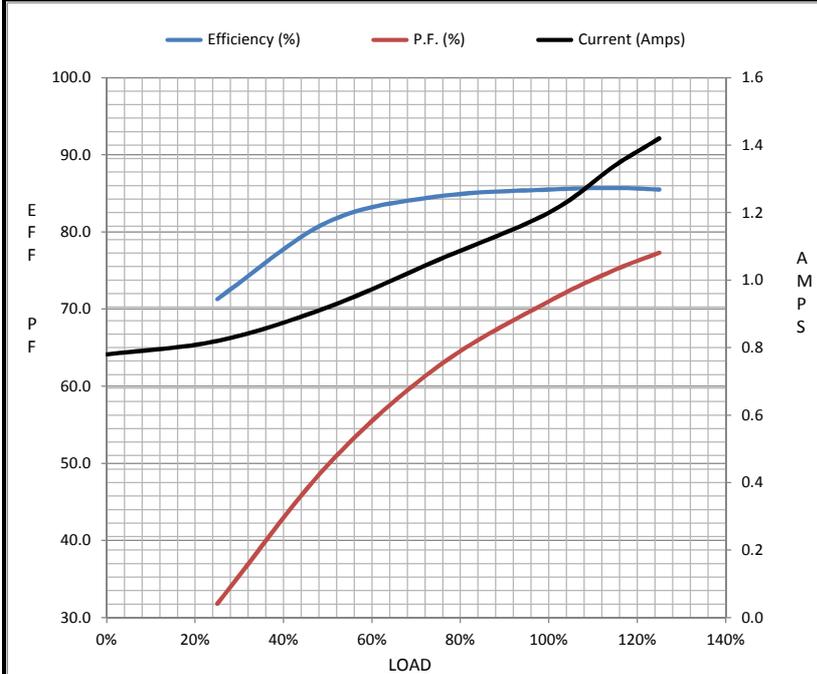
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 0.78 | 0.82 | 0.92 | 1.06 | 1.20 | 1.34 | 1.42 | 11.6 |
| Torque (ft-lb) | 0.00 | 0.73 | 1.47 | 2.22 | 3.0 | 3.4 | 3.7 | 11.2 |
| RPM | 1800 | 1790 | 1781 | 1772 | 1760 | 1,755 | 1751 | 0 |
| Efficiency (%) | | 71.3 | 81.3 | 84.6 | 85.5 | 85.7 | 85.5 | |
| P.F. (%) | 11.1 | 31.8 | 49.8 | 62.6 | 71.0 | 75.1 | 77.3 | 73.4 |

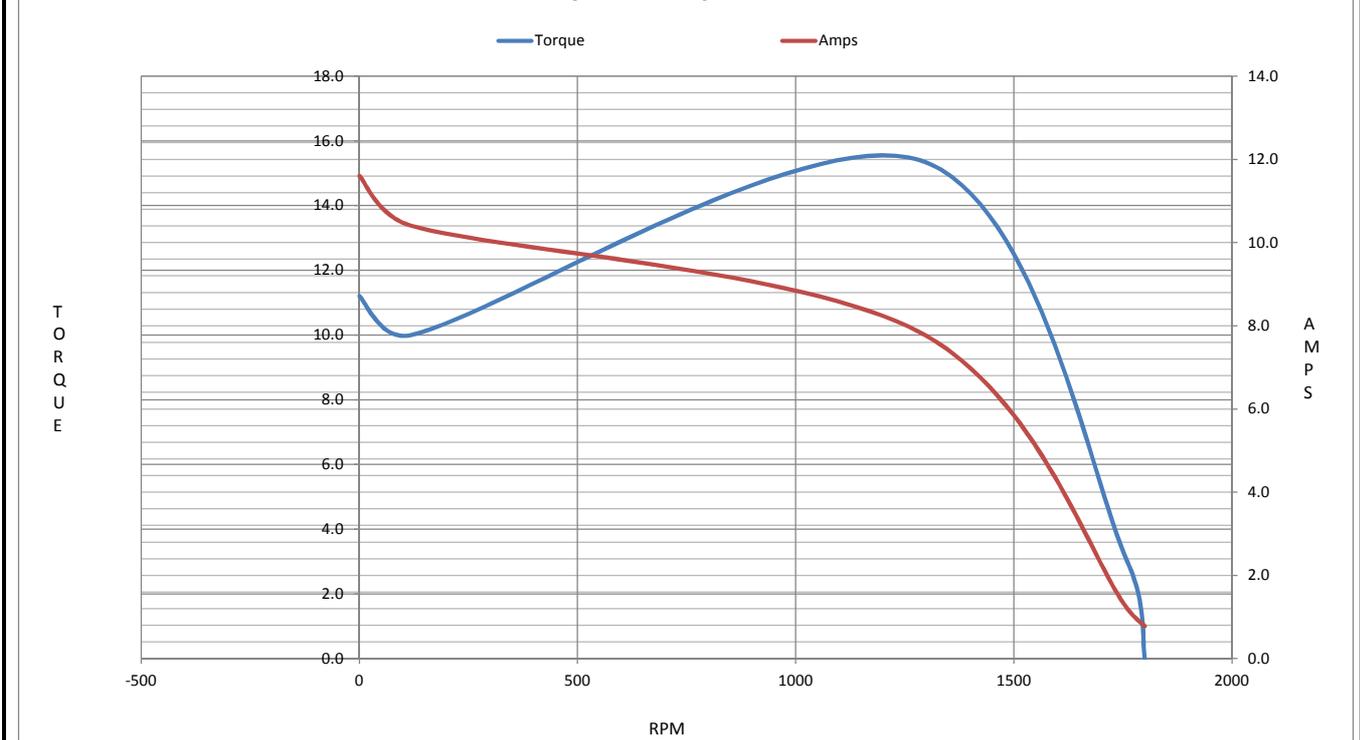
Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM) | 0 | 120 | 1285 | 1760 | 1800 |
| Current (Amps) | 11.6 | 10.4 | 7.8 | 1.20 | 0.78 |
| Torque (ft-lb) | 11.2 | 10.0 | 15.4 | 3.0 | 0.00 |

| Information Block | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 1.0 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 143 | | | |
| Enclosure | DP | | | |
| Construction | TDR | | | |
| Voltage | 575 V | | | |
| Frequency | 60 Hz | | | |
| Design | A | | | |
| LR Code letter | N | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 21 °C | | | |
| Duty | CONT | | | |
| Ambient | 40 °C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 0.12 Lb-Ft ² | | | |
| Ref Wdg | ZT4259 NONE | | | |
| Sound Pressure @ 1M | 56 dBA | | | |
| VFD Rating | CONSTANT 10:1 | | | |
| Outline Dwg | A-100085-906 | | | |
| Conn. Diag | A-EE7300 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 365THFS8036 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |



Speed - Torque Curve



REV. NOTE : UPDATED FROM MARATHON TO RRX LOGO

EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
1946 West Cook Road
Fort Wayne, IN 46818

and the authorized representative
established within the Community:

Regal Beloit Italy
Via Modena, 18
24040 Ciserano(BG) - Italy

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 : 143TTDR16037

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

Catalog No : E912A

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

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

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

Authorized Representative:



Zach Stauffer
Vice President, Engineering

Authorized Representative in the Community:



Stefano Casiraghi
Technology Director, Engineering

Created on 07/08/2025

CE 25