# PRODUCT INFORMATION PACKET

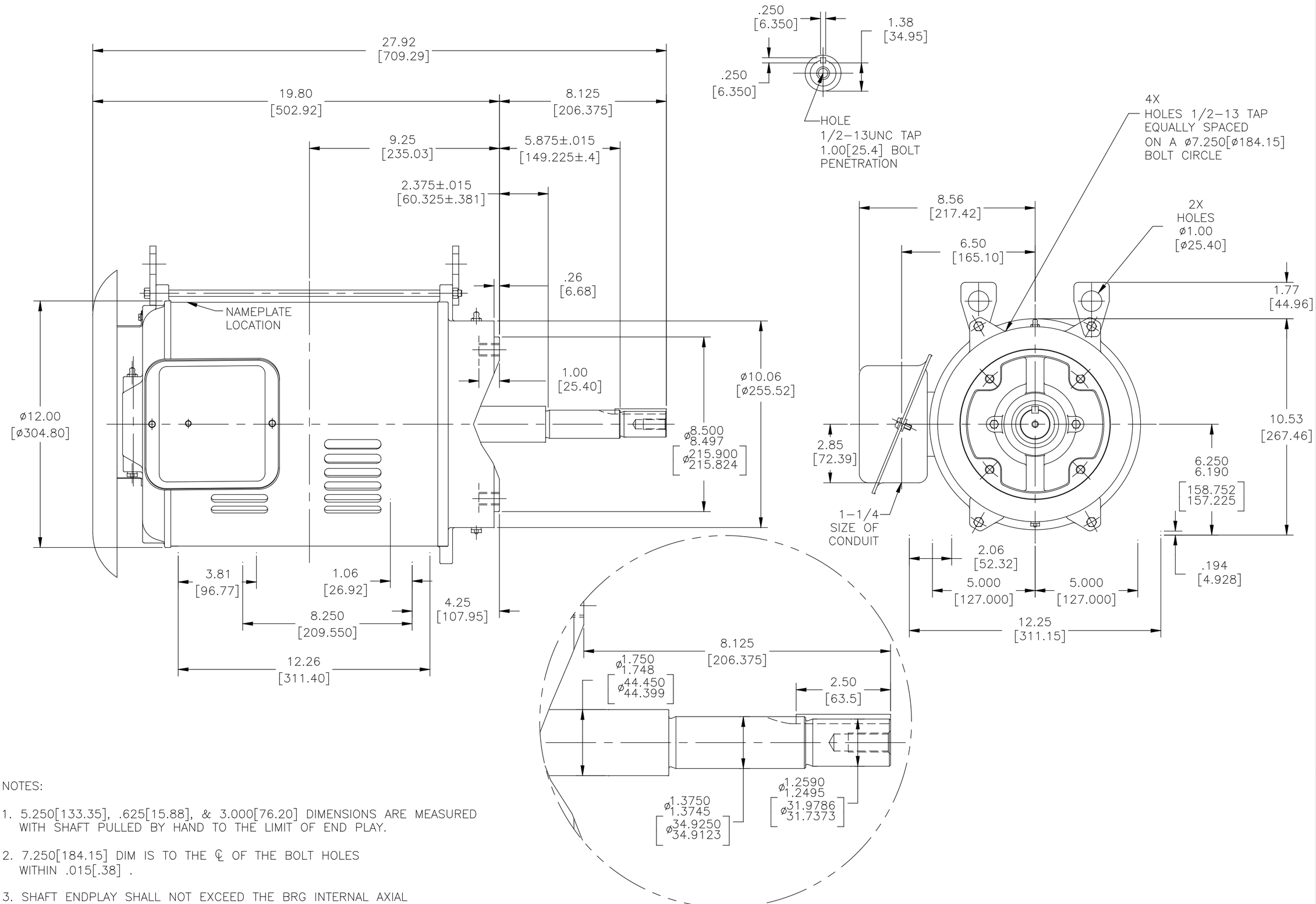
Model No: 254TTDR16028
Catalog No: U210A
Close-Coupled Pump Motor, 15 & 12 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 254JPV Frame, DP

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | 3 | Output HP | 15 & 12 Hp |
| Output KW | 11.2 & 9.0 kW | Voltage | 230/460 & 190/380 V |
| Speed | 1768 & 1470 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 254JPV | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Efficiency | 93 & 92 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 38/18.9 & 38/19 A | Power Factor | 79.9 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Drive End Bearing Size | 6309 | Opp Drive End Bearing Size | 6207 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 12 |
| Number of Speeds | 1 | | |

## Technical Specifications

| | | | |
|---|---|---|---|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .515 Ohms | Mounting | Round |
| Motor Orientation | Shaft Down | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | JP | Overall Length | 27.92 in |
| Frame Length | 13.00 in | Shaft Diameter | 1.375 in |
| Shaft Extension | 8.13 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Outline Drawing | 610-0010-1300 | Connection Drawing | EE7308K |




NOTES:

1. 5.250[133.35], .625[15.88], & 3.000[76.20] DIMENSIONS ARE MEASURED WITH SHAFT PULLED BY HAND TO THE LIMIT OF END PLAY.
2. 7.250[184.15] DIM IS TO THE ℄ OF THE BOLT HOLES WITHIN .015[.38] .
3. SHAFT ENDPLAY SHALL NOT EXCEED THE BRG INTERNAL AXIAL MOVEMENT. BEARING MOUNTING FITS SHALL BE AS RECOMMENDED BY THE BEARING MANUFACTURER.
4. TWO BOTTOM 1/2–13 HOLES WILL BE AN EQUAL DISTANCE FROM THE PLANE OF THE BOTTOM OF THE FEET WITHIN .003[.08].
5. MOTOR CAN BE CONVERTED TO HAVE AN F–2 CONDUIT BOX MOUNTING.

| DRAWING REVISION | REVISION BY | DATE |
|---|---|---|
| A | A.ARREOLA | 07–26–2016 |
| ECO | APPROVED BY | DATE |
| 0097833 | A.ARREOLA | 07–26–2016 |
| ECO DESCRIPTION | | |
| NEW MODEL RELEASE | | |



TOLERANCES UNLESS OTHERWISE SPECIFIED

| DEC. | INCH | mm | ANGLE |
|---|---|---|---|
| .X | ±0.1 | [±2.5] | ±0.5° |
| .XX | ±0.02 | [±0.51] | |
| .XXX | ±0.005 | [±0.127] | |
| .XXXX | ±0.0005 | [±0.0127] | |

REMOVE BURRS & BREAK SHARP EDGES .003/.015 [.076/.381]
CORNER FILLETS .02 [.51]
MACHINED SURFACES 125/ INCH 3.2/ mm
mm SHOWN IN [BRACKETS]

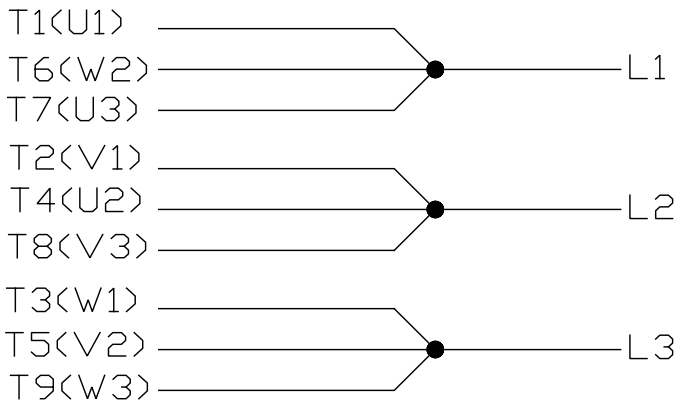
| | |
|---|---|
| DRAWN BY: | A.ARREOLA |
| DATE: | 07–26–2016 |
| APPROVED BY: | A.ARREOLA |
| DATE: | 07–26–2016 |
| REFERENCE | – |
| THIRD ANGLE PROJECTION | |

Regal Beloit America, Inc.

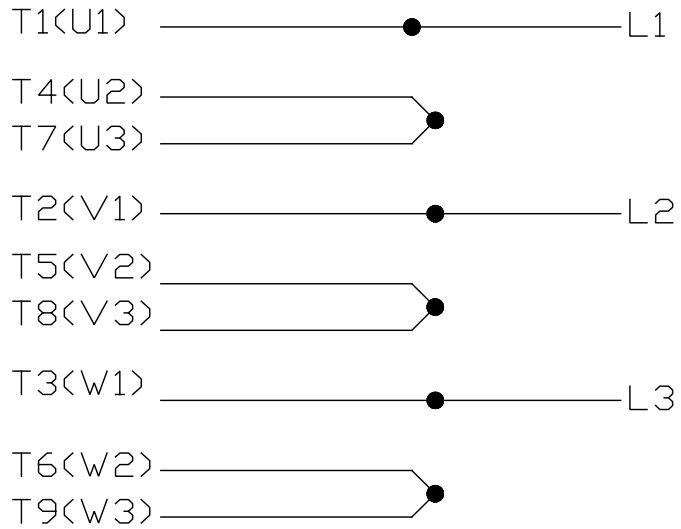
| | | |
|---|---|---|
| DESCRIPTION | MODEL–IHP OUTLINE | |
| MATERIAL | – | PROCESS/FINISH – |
| SIZE C | DWG NO 610–0010 | SHEET 1 |

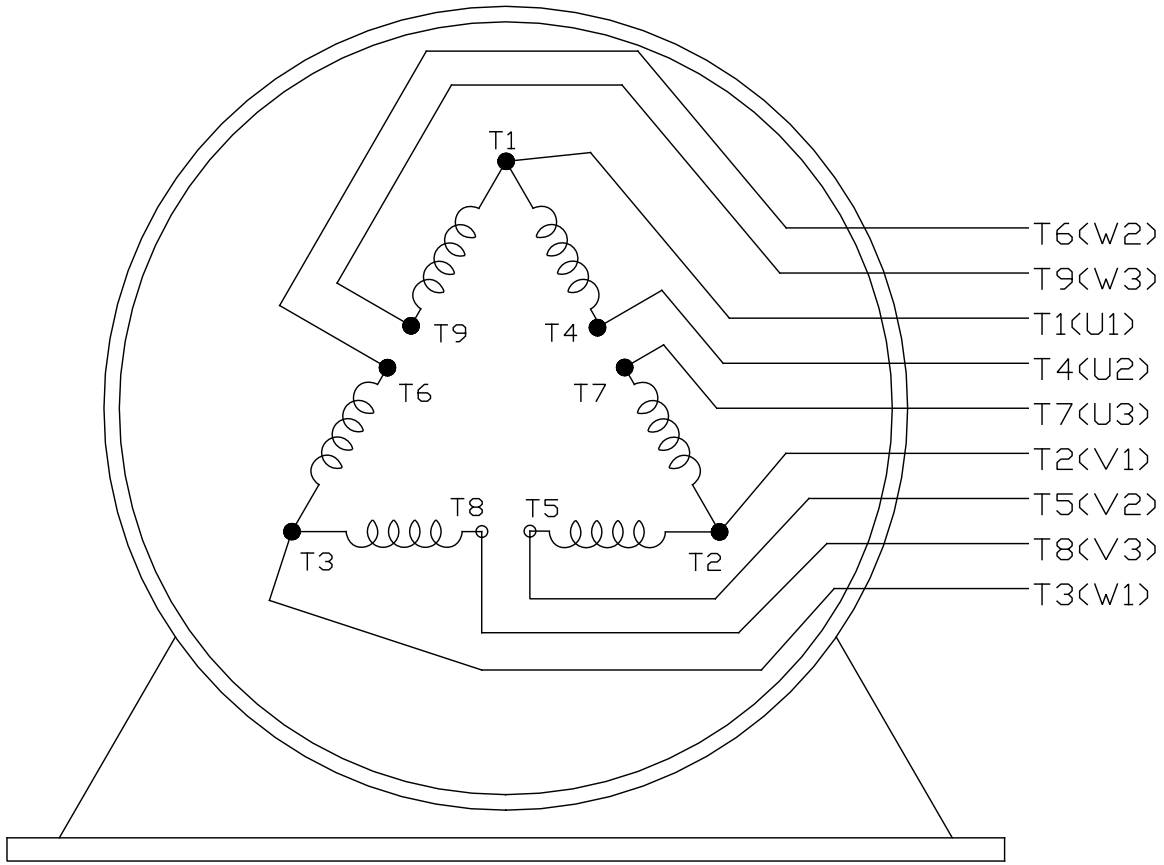
EE7308K

## LOW VOLTAGE




## HIGH VOLTAGE




VIEW OF TERMINAL END

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| E | CORRECTED IEC MARKINGS ECO-0111208 | WGJ 01-23-2017 | EMH |
| D | RE-DRAWN WITH REGAL LOGO ECO-0110493 | WGJ 09-30-2016 | EMH |
| 8 | ADDED IEC DESIGNATIONS MU95020 | TJW 4/30/2010 | MJS |
| 7 | REVISD HIGH VOLTAGE L2 WAS L3 CN52600-354 | MRB 09-21-1998 | |
| 6 | REDRAWN ON CADD | PGK 06-05-1997 | |

TOLERANCES UNLESS SPECIFIED

| DEC. | INCHES |
|---|---|
| .X | ±.1 |
| .XX | ±.02 |
| .XXX | ±.005 |
| .XXXX | ±.0005 |
| ANG | ±7'30" |

REGAL - BELOIT CORPORATION

TITLE: CONNECTION DIAGRAM
DELTA CON. - 3Ø - 9 LEADS

MAT'L.

FINISH

CAD FILE EE7308K

RFP

DIST

DRAWN PGK 06-04-1997
CHK ML 06-05-1997
APPD GK 06-15-1997
SCALE
REF
FMF
PREV

| SIZE | DRAWING NO. | PAGE OF | REV. |
|---|---|---|---|
| A | EE7308K | | E |

P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

# CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: 80022801
OUTLINE: 610-0010
WINDING: BGR4T01 NONE 3
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 254TTDR16028
CAT #: U210A
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|---|
| 15 | 11.2 | 1800 | 1768 | 254JPV | DP | TDR | G | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 230/460#190/380 | 38/18.9& 38/19 | ACROSS THE LINE | CONT | F | 1.15 | 40 | 3300 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F.L. EFF | 93.0 | 3/4 LD EFF | 93.2 | 1/2 LD EFF | 92.7 | GTD EFF | ELECT. TYPE |
| F.L. PF | 79.9 | 3/4 LD PF | 75.2 | 1/2 LD PF | 66.0 | 91.7 | SQ CAGE IND RUN |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (°C) | |
|---|---|---|---|---|---|
| 44.5 LB-FT | 114 | 84.1 LB-FT 189% | 117 LB-FT 263% | 21 | |

| @ 3 FT. | POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|---|---|---|---|---|---|---|
| 999 dBA | 1008 dBA | 2.00 LB-FT² | 0 LB-FT² | 20 SEC. | 2 | 0 LB. |

## *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| C-FACE | STANDARD | ROUND | SHAFT DOWN | NO | NONE | YES | NONE | BLUE (ENAMEL) |

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

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|---|---|---|---|---|---|---|
| NONE | NOT | NONE | NONE | NONE | FALSE | NA |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0.150 | ODE |

*
NOTES
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY: FAREEDA DUDEKULA
DATE: 9/17/2018

FORM: 3531 REV_4 2/27/06

UL: V-INS, CONST UL REC

# Data Sheet

Date: 12/10/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

254TTDR16028

**Submittal**

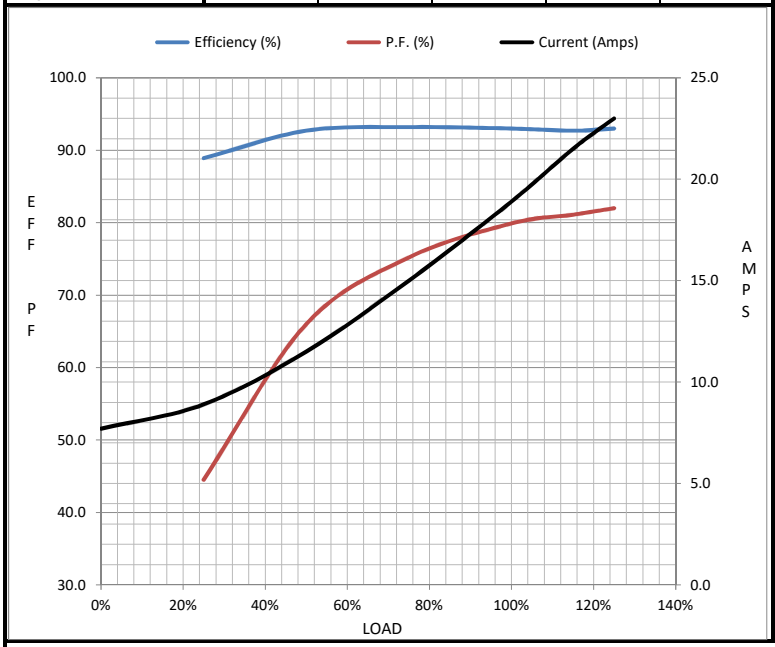
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 7.7 | 8.9 | 11.5 | 15.0 | 18.9 | 21.5 | 23.0 | 114 | |
| Torque (ft-lb) | 0.00 | 11.0 | 22.0 | 33.0 | 44.5 | 51.0 | 60.0 | 84.1 | |
| RPM | 1800 | 1793 | 1785 | 1777 | 1768 | 1,762 | 1740 | 0 | |
| Efficiency (%) | | 88.9 | 92.7 | 93.2 | 93.0 | 92.7 | 93.0 | | |
| P.F. (%) | 0.0 | 44.5 | 66.0 | 75.2 | 79.9 | 81.1 | 82.0 | 0.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 884 | 1656 | 1768 | 1800 |
| Current (Amps) | 114 | 103 | 68.4 | 18.9 | 7.7 |
| Torque (ft-lb) | 84.1 | 71.5 | 117 | 44.5 | 0.00 |



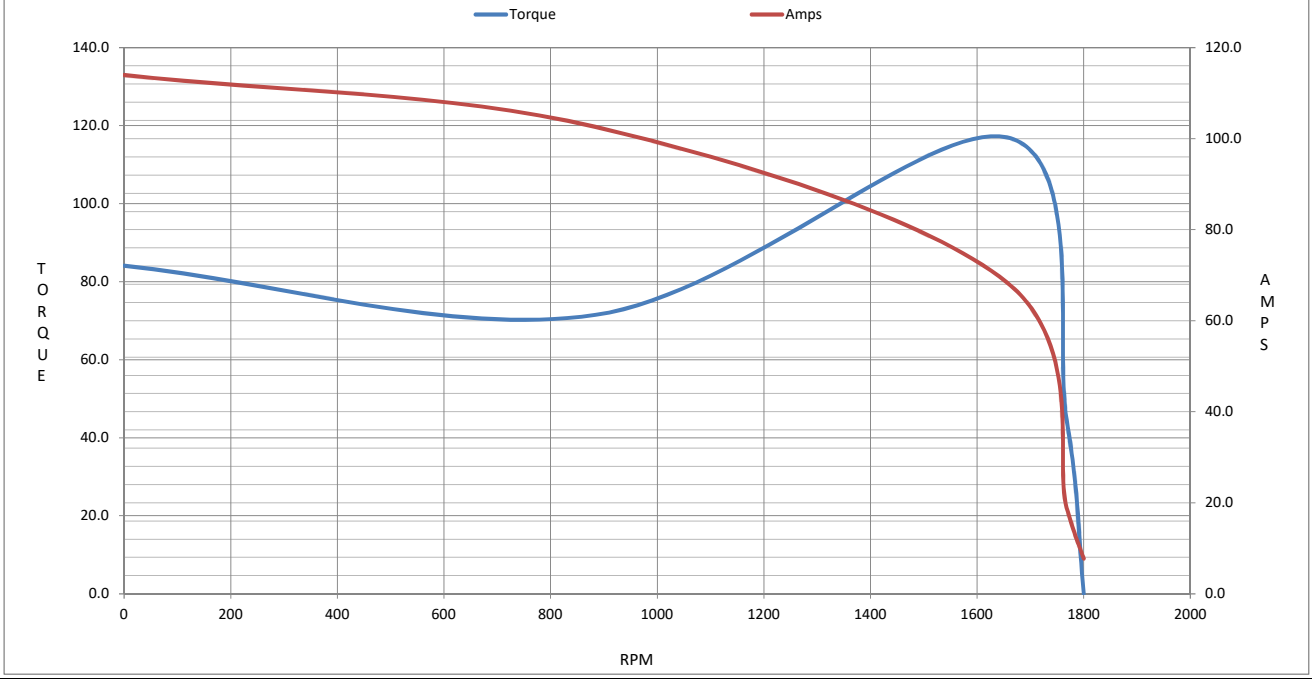

## Information Block

| | | |
|---|---|---|
| HP | 15.0 | |
| Sync. RPM | 1800 | |
| Frame | 254 | |
| Enclosure | DP | |
| Construction | TDR | |
| Voltage | 230/460#190/380 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | G | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 21 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 1,000 | feet |
| Rotor/Shaft wk² | 2.00 | Lb-Ft² |
| Ref Wdg | BGR4T01 NONE | |
| Sound Pressure @ 1M | 999 | dBA |
| VFD Rating | NONE | |
| Outline Dwg | 610-0010 | |
| Conn. Diag | 80022801 | |
| Additional Specifications: | | |
| 0 | | |
| 0 | | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## Speed -Torque Curve



# 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 : 254TTDR16028

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

Catalog No : U210A

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:

Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:

Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22