

# PRODUCT INFORMATION PACKET



Model No: 194120.00

Catalog No: 194120.00

Obsolete Replaced by B194120.00..25..3600.284JP.TEFC.230/460.3.60/50HZ.CONT.40C..RIGID C-FACE.....

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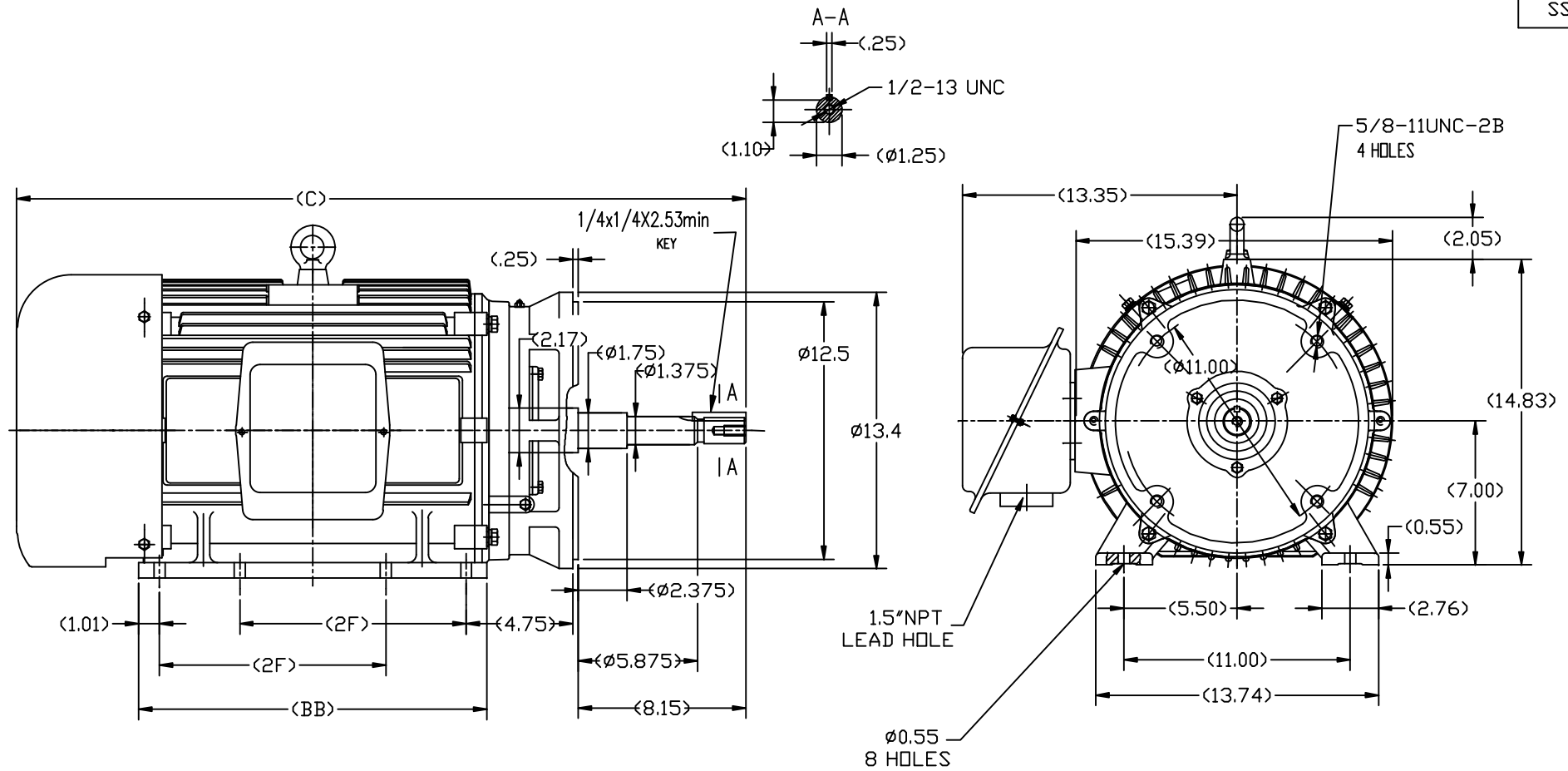
## Nameplate Specifications

|                        |                       |                            |                             |
|------------------------|-----------------------|----------------------------|-----------------------------|
| Phase                  | 3                     | Output HP                  | 25 & 20 Hp                  |
| Output KW              | 18.7 & 14.9 kW        | Voltage                    | 230/460 & 190/380 V         |
| Speed                  | 3560 & 2960 rpm       | Service Factor             | 1.15 & 1.15                 |
| Frame                  | 284JP                 | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection         | Efficiency                 | 91.7 & 91 %                 |
| Ambient Temperature    | 40 °C                 | Frequency                  | 60 & 50 Hz                  |
| Current                | 55.5/27.7 & 55/27.5 A | Power Factor               | 90                          |
| Duty                   | Continuous            | Insulation Class           | F                           |
| Design Code            | B                     | KVA Code                   | G                           |
| Drive End Bearing Size | 6211                  | Opp Drive End Bearing Size | 6211                        |
| UL                     | Recognized            | CSA                        | Y                           |
| CE                     | Y                     | IP Code                    | 43                          |
| Number of Speeds       | 1                     |                            |                             |

## Technical Specifications

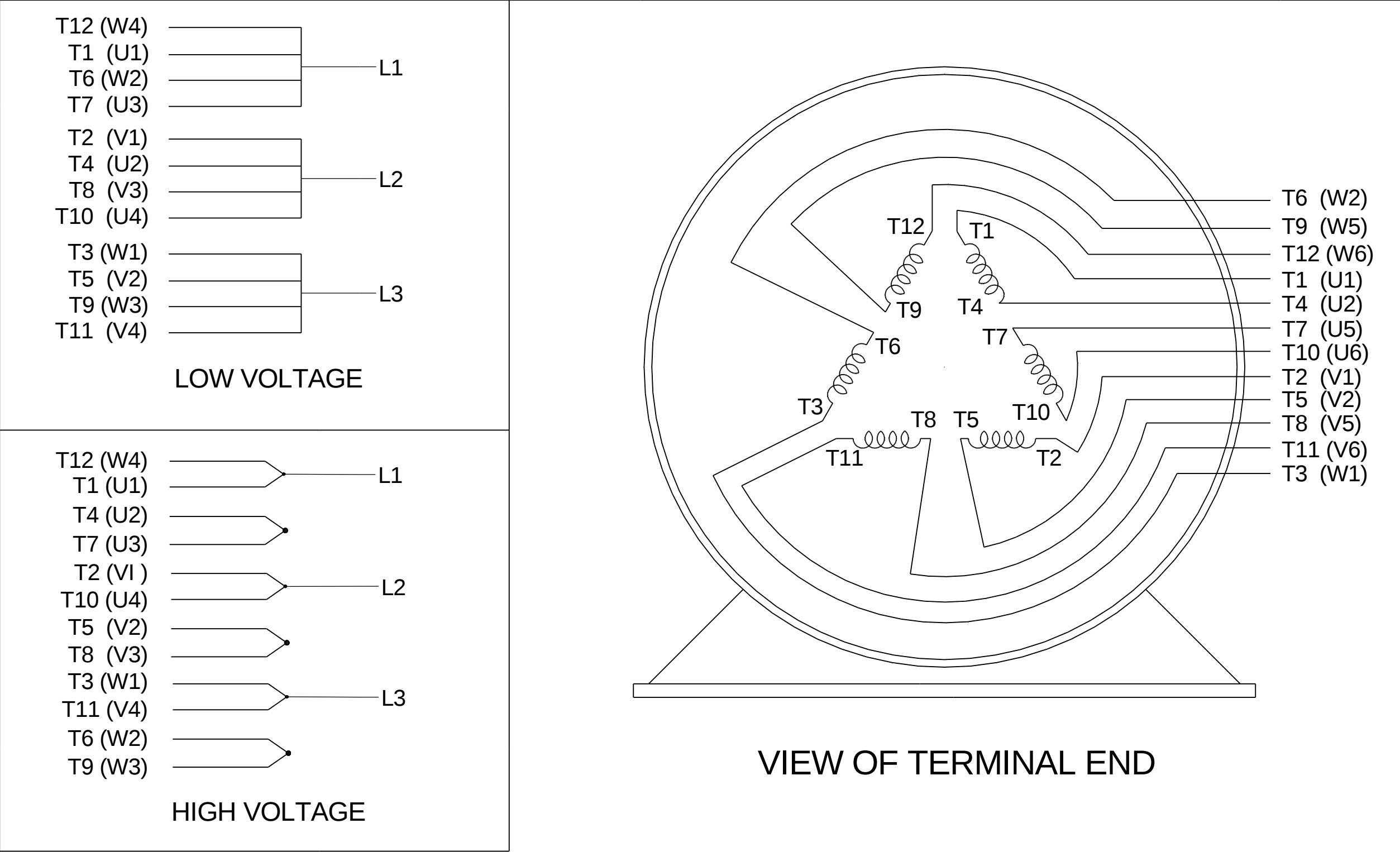
|                       |                              |                       |                                 |
|-----------------------|------------------------------|-----------------------|---------------------------------|
| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method       | Wye Start Delta Run Or Inverter |
| Poles                 | 2                            | Rotation              | Reversible                      |
| Resistance Main       | .321 Ohms                    | Mounting              | Rigid Base                      |
| Motor Orientation     | Horizontal                   | Drive End Bearing     | Ball                            |
| Opp Drive End Bearing | Ball                         | Frame Material        | Cast Iron                       |
| Shaft Type            | JP                           | Assembly/Box Mounting | F1/F2 CAPABLE                   |
| Inverter Load         | CONSTANT 10:1                |                       |                                 |
| Outline Drawing       | SS620568                     | Connection Drawing    | EE7308AA-LE                     |

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|       |       |       |       |
|-------|-------|-------|-------|
| 284TC | 33.82 | 15.75 | 9.50  |
| 286TC | 35.00 | 16.93 | 11.00 |
| FRAME | C     | BB    | 2F    |

| TOLERANCES UNLESS SPECIFIED                                                                                                                                                                                                         |          |           |     | REGAL-BELOIT CORPORATION |          | DRAWN Lee 05-16-2012 |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----|--------------------------|----------|----------------------|----------------|
| DEC.                                                                                                                                                                                                                                | INCHES   |           |     |                          |          | CHK                  | HPH 05-16-2012 |
| X                                                                                                                                                                                                                                   | ±.1      |           |     |                          |          | APPD                 | JGX 05-16-2012 |
| XX                                                                                                                                                                                                                                  | ±.03     |           |     |                          |          | SCALE                | 2=13           |
| XXX                                                                                                                                                                                                                                 | ±.005    |           |     |                          |          | REF                  |                |
| XXXX                                                                                                                                                                                                                                | ±.0005   |           |     |                          |          | FMF                  | HWADA          |
| NO.                                                                                                                                                                                                                                 | REVISION | BY & DATE | CHK | ANG                      | FINISH   | PREV                 |                |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT. |          |           |     | RFP                      | CAD FILE | SS620568             | SIZE           |
|                                                                                                                                                                                                                                     |          |           |     | DIST                     |          |                      | B              |
|                                                                                                                                                                                                                                     |          |           |     |                          |          |                      | DRAWING NO.    |
|                                                                                                                                                                                                                                     |          |           |     |                          |          |                      | SS620568       |
|                                                                                                                                                                                                                                     |          |           |     |                          |          |                      | REV.           |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              |                                                                             |  |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------|--|-------------------------------|
| DRAWING REVISION<br>C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | REVISION BY<br>D.FROEHLICH | DATE<br>02-09-2015 | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:<br><div><div>DEC.</div><div>INCH</div><div>mm</div><div>ANGLE</div></div> <div><div>.X</div><div>±0.1</div><div>[±2.5]</div><div>±7° 30"</div></div> <div><div>.XX</div><div>±0.02</div><div>[±0.51]</div><div></div></div> <div><div>.XXX</div><div>±0.005</div><div>[±0.127]</div><div></div></div> <div><div>.XXXX</div><div>±0.0005</div><div>[±0.0127]</div><div></div></div> <div>REMOVE BURRS &amp; BREAK SHARP<br/>EDGES: .003/.015 [0.076/.381]<br/>CORNER FILLETS: .02 [0.51]<br/>MACHINED SURFACES: 200<br/>INCH ✓ mm ✓<br/>mm SHOWN IN [BRACKETS]</div> | DRAWN BY<br>HV                               | <div><div><div>REGAL</div><div>Regal Beloit America, Inc.</div></div></div> |  |                               |
| ECO<br>ECO-0070906                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | APPROVED BY<br>MG          | DATE<br>02-09-2015 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DATE<br>06-08-20152                          | DESCRIPTION<br>CONN DIAGRAM-EXTERNAL                                        |  |                               |
| ECO DESCRIPTION<br>UPDATED IEC CONNECTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | APPROVED BY<br>DR                            | 3 PHASE - 2/1 DELTA - 12 LEADS                                              |  |                               |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | REFERENCE                                    | SIZE<br>A                                                                   |  | DRAWING NUMBER<br>EE7308AA-LE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                            |                    | THIRD ANGLE<br>PROJECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <div><div><div></div><div></div></div></div> |                                                                             |  |                               |



CERTIFICATION DATA SHEET

1051 CHEYENNE AVE.  
GRAFTON, WI 53024  
PH. 262-377-8810

CONN. DIAGRAM: EE7308AA-LE

CATALOG #: 194120.00

OUTLINE: SS620568

MOUNTING: F1/F2 CAPABLE

WINDING #: CHT28420003 1

TYPICAL MOTOR PERFORMANCE DATA

| HP    | kW        | SYNC. RPM | F.L. RPM  | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-----------|-----------|-----------|-------|-----------|----------|--------|
| 25&20 | 18.7&14.9 | 3600      | 3560&2960 | 284JP | TEFC      | G        | B      |

| PH | Hz    | VOLTS           | AMPS              | START TYPE           | DUTY       | INSL | S.F.      | AMB°C |
|----|-------|-----------------|-------------------|----------------------|------------|------|-----------|-------|
| 3  | 60/50 | 230/460&190/380 | 55.5/27.7&55/27.5 | Y START D RUN OR INV | CONTINUOUS | F3   | 1.15/1.15 | 40    |

|                |         |               |      |               |    |          |                   |
|----------------|---------|---------------|------|---------------|----|----------|-------------------|
| FULL LOAD EFF: | 91.7&91 | 3/4 LOAD EFF: | 92.4 | 1/2 LOAD EFF: | 91 | GTD. EFF | ELEC. TYPE        |
| FULL LOAD PF:  | 90&87.5 | 3/4 LOAD PF:  | 88   | 1/2 LOAD PF:  | 82 | 91       | SQ CAGE INV RATED |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE    | B.D. TORQUE    | F.L. RISE°C |
|-------------|-------------------|----------------|----------------|-------------|
| 37 LB-FT    | 354 / 177         | 65 LB-FT 176 % | 95 LB-FT 257 % | 50          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2  | MAX. WK^2  | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|-------------|------------|-----------------|---------------|-------------------|
| 72 dBA                 | 82 dBA      | 2.5 LB-FT^2 | 32 LB-FT^2 | 20 SEC.         | 2             | 460 LBS.          |

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

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

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL          | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE       | ODE  |            |            |            |             |                         |                |
| BALL     | BALL | POLYREX EM | JP         | NONE       | NONE        | 1045 HOT ROLLED (C-204) | CAST IRON      |
| 6211     | 6211 |            |            |            |             |                         |                |

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

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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

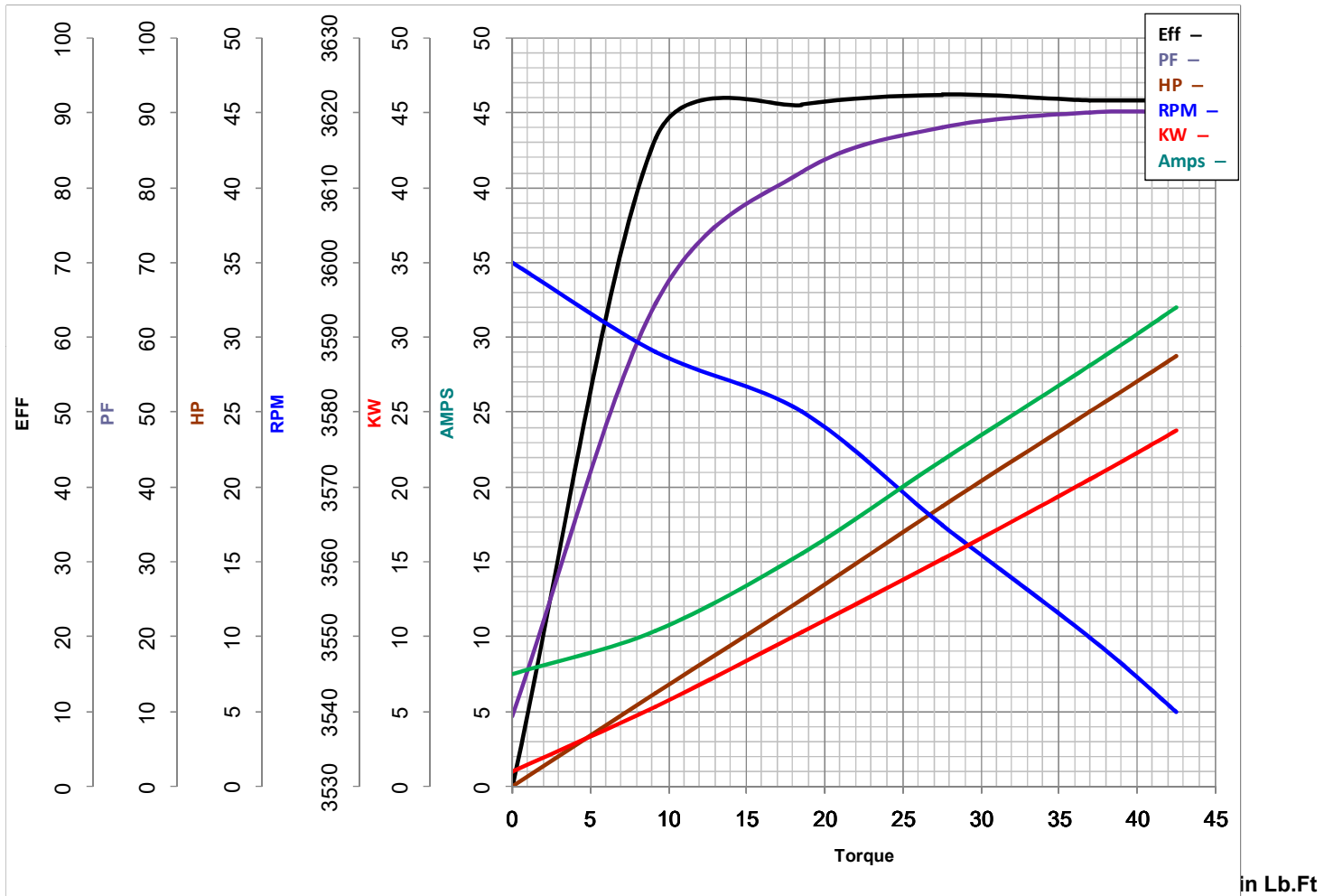
NONE NONE

NONE FT-LB NONE V NONE Hz



# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 194120.00Curve at 460  
60  
25Volts  
HZ  
HPHP 25&20PHASE 3VOLTS 230/460&190/380Catalog No 194120.00HZ 60&50RPM 3560&2960

FL TORQUE 37 Lb.Ft  
 BD TORQUE 95.0 Lb.Ft  
 LR TORQUE 65 Lb.Ft

FL AMPS 55.5/27.7  
 PU TORQUE 55.0 Lb.Ft  
 LR AMPS 177

WINDING CHT28420003-1

Date 10/30/2018

## 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 : 194120.00

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

Catalog No : 194120.00

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**