# PRODUCT INFORMATION PACKET



Model No: 193315.60 Catalog No: 193315.60

LEESON® PASSPORT 15 HP General Purpose, 3 phase, 3600 RPM, 230/460 V, 160M Frame, TEFC









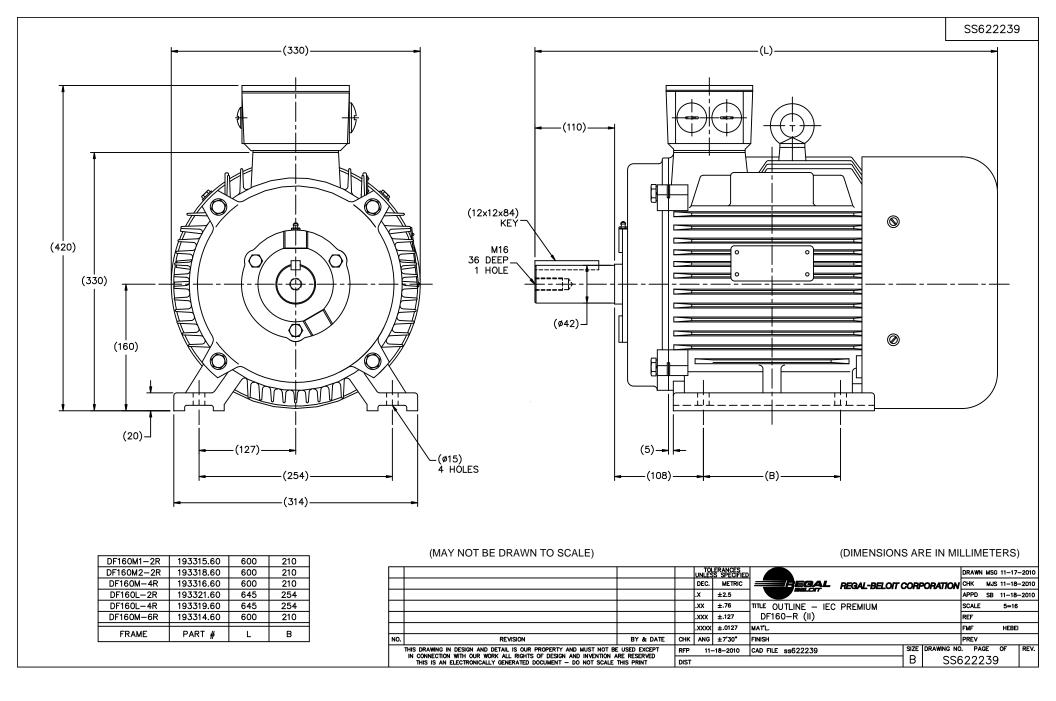
### Nameplate Specifications

| Phase                  | 3                   | Output HP                  | 15 & 10 Hp                  |
|------------------------|---------------------|----------------------------|-----------------------------|
| Output KW              | 11.2 & 7.5 kW       | Voltage                    | 230/460 & 200/400 V         |
| Speed                  | 3545 & 2960 rpm     | Service Factor             | 1.15 & 1.15                 |
| Frame                  | 160M                | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | Thermostat          | Efficiency                 | 91 & 91 %                   |
| Ambient Temperature    | 40 °C               | Frequency                  | 60 & 50 Hz                  |
| Current                | 35/17.5 & 27/13.5 A | Power Factor               | 88.5                        |
| Duty                   | Continuous          | Insulation Class           | F                           |
| Design Code            | В                   | KVA Code                   | G                           |
| Drive End Bearing Size | 6309                | Opp Drive End Bearing Size | 6209                        |
| UL                     | Recognized          | CSA                        | Υ                           |
| CE                     | Υ                   | IP Code                    | 54                          |
| Number of Speeds       | 1                   |                            |                             |

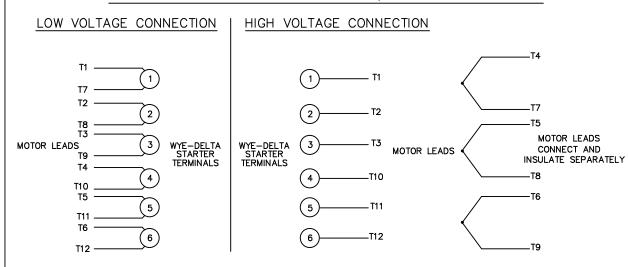
## **Technical Specifications**

| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method    | Wye Start Delta Run Or Inverter |
|-----------------------|------------------------------|--------------------|---------------------------------|
| Poles                 | 2                            | Rotation           | Reversible                      |
| Resistance Main       | .4 Ohms                      | Mounting           | Rigid Base                      |
| Motor Orientation     | Horizontal                   | Drive End Bearing  | Ball                            |
| Opp Drive End Bearing | Ball                         | Frame Material     | Cast Iron                       |
| Shaft Type            | IEC                          | Overall Length     | 23.62 in                        |
| Shaft Diameter        | 1.625 in                     | Shaft Extension    | 4.33 in                         |
| Assembly/Box Mounting | F3                           | Inverter Load      | CONSTANT 10:1                   |
| Outline Drawing       | B-SS622239                   | Connection Drawing | 004172.01                       |

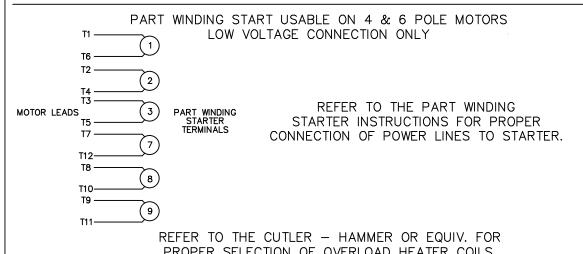
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#### WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.



| T IXOT LIX | SELECTION OF | OVERLOA | DILATER | OOIL | <b>J</b> .   |                        |
|------------|--------------|---------|---------|------|--------------|------------------------|
|            |              |         |         | U    | TOL<br>INLES | ERANCES<br>S SPECIFIED |
|            |              |         |         | [    | DEC.         | INCHES                 |
| -          |              |         |         |      | . –          |                        |

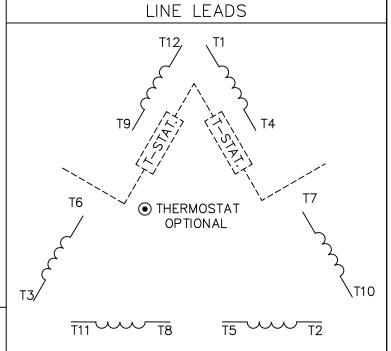
RFP

DIST

|     |   |              | `—— | ONLL  | 3 SELCII ILD | 1 1    |
|-----|---|--------------|-----|-------|--------------|--------|
|     |   |              |     | DEC.  | INCHES       |        |
|     |   |              |     | .x    | ±.1          | \      |
| 03  | REV'D LOW VOLTAGE CONN. LEADS PER ELEC. | BJB 06/07/00 |     | .xx   | ±.01         | TITLE  |
| 02  | ADDED T-STAT. NOTES PER ELECTRICAL      | KMM 06/02/98 |     | .xxx  | ±.005        |        |
| 01  | REDRAWN TO CAD                          | DBT 06/02/97 |     | .xxxx | ±.0005       | MAT'L. |
| NO. | REVISION                                | BY & DATE    | СНК | ANG   | ±1/2°        | FINISH |

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|   |    |   |  |  |



ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS • RED LEADS OR P1, P2, FOR N/C THERMOSTAT

| ACROSS THE LINE START & RUN |                 |                               |                 |                            |  |  |  |  |  |  |
|-----------------------------|-----------------|-------------------------------|-----------------|----------------------------|--|--|--|--|--|--|
|                             | LINE 1          | JOIN & INSULATE<br>SEPARATELY |                 |                            |  |  |  |  |  |  |
| HIGH<br>VOLT                | T1,T12          | T2,T10                        | T3,T11          | (T4,T7) (T5,T8)<br>(T6,T9) |  |  |  |  |  |  |
| LOW<br>VOLT                 | T1,T6<br>T7,T12 | T2,T4<br>T8,T10               | T3,T5<br>T9,T11 |                            |  |  |  |  |  |  |

**ELECTRIC MOTORS** 

SIZE

DELTA - WYE CONNECTION DIAGRAM

DRAWN WLW 09/08/77 RPB 09/12/77 APPD JCW 09/12/77 SCALE 1=1

REF

REV.

03

FMF

PREV 004172 - 01

DRAWING NO.

6/28/2007 3:22:15 PM -

00417201

CAD FILE

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

**CATALOG #:** 193315.60

**CONN. DIAGRAM:** 004172.01 **OUTLINE:** B-SS622239

Т

**WINDING #:** T12902027 3

**MOUNTING:** F3

#### **TYPICAL MOTOR PERFORMANCE DATA**

| HP    | kW        | SYNC. RPM | F.L. RPM  | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-----------|-----------|-----------|-------|-----------|----------|--------|
| 15&10 | 11.2&7.50 | 3600      | 3545&2960 | 160M  | TEFC      | G        | В      |

| PH | Hz    | VOLTS           | AMPS            | START TYPE           | DUTY       | INSL | S.F.      | амв°с |
|----|-------|-----------------|-----------------|----------------------|------------|------|-----------|-------|
| 3  | 60/50 | 230/460&200/400 | 35/17.5&27/13.5 | Y START D RUN OR INV | CONTINUOUS | F5   | 1.15/1.15 | 40    |

| FULL LOAD EFF: | 91&91     | 3/4 LOAD EFF: | 91   | 1/2 LOAD EFF: | 90.2 | GTD. EFF | ELEC. TYPE        |
|----------------|-----------|---------------|------|---------------|------|----------|-------------------|
| FULL LOAD PF:  | 88.5&86.5 | 3/4 LOAD PF:  | 87.5 | 1/2 LOAD PF:  | 83   | 90.2     | SQ CAGE INV RATED |

| F.L. TORQUE LOCKED ROTOR AMPS |             | L.R. TORQUE             | B.D. TORQUE             | F.L. RISE°C |
|-------------------------------|-------------|-------------------------|-------------------------|-------------|
| 22.2 <b>LB-FT</b>             | 213 / 106.5 | 47.5 <b>LB-FT</b> 213 % | 56.5 <b>LB-FT</b> 254 % | 44          |

|   | SOUND PRESSURE<br>@ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /<br>HOUR | APPROX.<br>MOTOR WGT |
|---|---------------------------|-------------|------------|-----------|-----------------|------------------|----------------------|
| ſ | 70 <b>dBA</b>             | 80 dBA      | - LB-FT^2  | - LB-FT^2 | 20 <b>SEC.</b>  | 2                | 265 <b>LBS.</b>      |

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

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

| BEARINGS |      | GREASE     | SHAFT TYPE   | SPECIAL DE | SPECIAL ODE | SHAFT             | FRAME     |  |
|----------|------|------------|--------------|------------|-------------|-------------------|-----------|--|
| DE       | ODE  | GREASE     | SHAFI ITPE   | SPECIAL DE | SPECIAL ODE | MATERIAL          | MATERIAL  |  |
| BALL     | BALL | POLYREX EM | STANDARD IEC | NONE       | NONE        | AISI 1045 (C-240) | CAST IRON |  |
| 6309     | 6209 | POLIKEX EM |              |            |             |                   |           |  |

|              | THERMO-PROTECT | THERMISTORS | CONTROL  | SPACE HEATERS |         |               |       |
|--------------|----------------|-------------|----------|---------------|---------|---------------|-------|
| THERMOSTATS  | PROTECTORS     | WDG RTDs    | BRG RTDs | THERMISTORS   | CONTROL | SPACE REALERS |       |
| TSTATS (N/C) | NOT            | NONE        | NONE     | NONE          | FALSE   | NONE          | VOLTS |

INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE

ENCODER: NONE NONE NONE NONE PPR 0 NONE

BRAKE: NONE NONE NONE P/N NONE NONE NONE

Ε NONE FT-LB NONE V NONE Hz

S

