

# PRODUCT INFORMATION PACKET



Model No: 131554.00  
Catalog No: 131554.00  
Special Voltage Motor, 3 HP, 1 Ph, 50 Hz, 220 V, 1500 RPM, 184T Frame, DP



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### Nameplate Specifications

|                        |                |                            |            |
|------------------------|----------------|----------------------------|------------|
| Output HP              | 3 Hp           | Output KW                  | 2.2 kW     |
| Frequency              | 50 Hz          | Voltage                    | 220 V      |
| Current                | 16.8 A         | Speed                      | 1440 rpm   |
| Service Factor         | 1.15           | Phase                      | 1          |
| Efficiency             | 76 %           | Power Factor               | 79         |
| Duty                   | Continuous     | Insulation Class           | F          |
| Design Code            | NO DESIGN CODE | KVA Code                   | H          |
| Frame                  | 184T           | Enclosure                  | Drip Proof |
| Thermal Protection     | No Protection  | Ambient Temperature        | 40 °C      |
| Drive End Bearing Size | 6206           | Opp Drive End Bearing Size | 6205       |
| UL                     | Recognized     | CSA                        | Y          |
| CE                     | N              | IP Code                    | 22         |
| Number of Speeds       | 1              |                            |            |

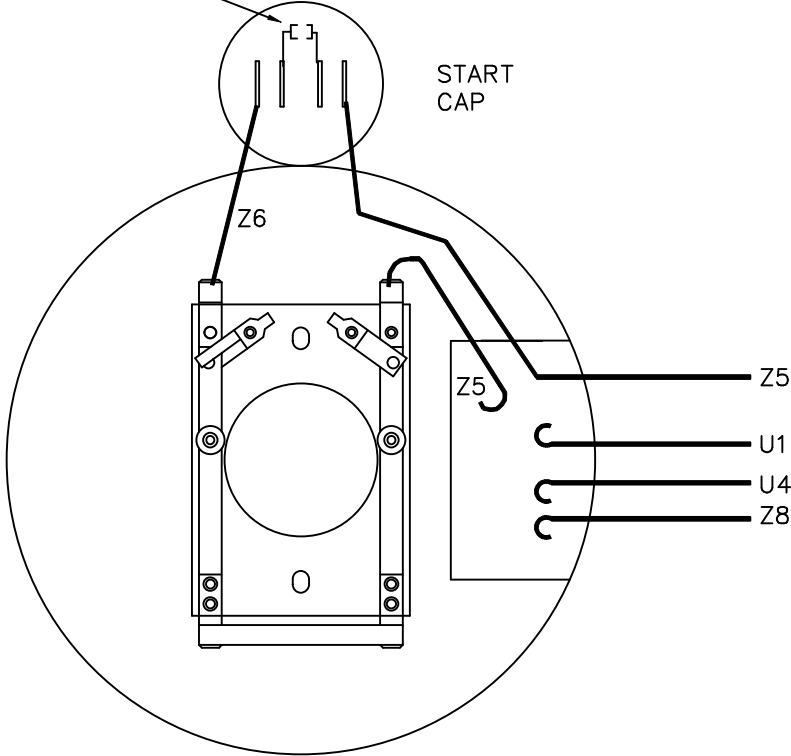
### Technical Specifications

|                       |                               |                       |                            |
|-----------------------|-------------------------------|-----------------------|----------------------------|
| Electrical Type       | Capacitor Start Induction Run | Starting Method       | Across The Line            |
| Poles                 | 4                             | Rotation              | Selective Counterclockwise |
| Resistance Main       | 0 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        | 14.69 in                   |
| Frame Length          | 10.50 in                      | Shaft Diameter        | 1.125 in                   |
| Shaft Extension       | 2.75 in                       | Assembly/Box Mounting | F1 ONLY                    |
| Connection Drawing    | 005403.01                     | Outline Drawing       | 035370-1050                |

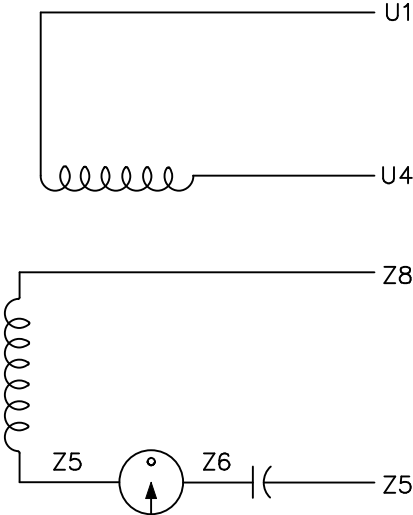
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RESISTOR WHEN REQUIRED



LINE LEADS



| ROTATION<br>FACING<br>LEAD END | L1     | L2     |
|--------------------------------|--------|--------|
| C.C.W.<br>ROT.                 | U1, Z8 | U4, Z5 |
| C.W.<br>ROT.                   | U1, Z5 | U4, Z8 |

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

TYPE "C" W/O PROT.  
REF. DECAL 080670

|                                                                                                                                                                 |          |  |    |                                       |           |                             |                                                            |        |      |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|----|---------------------------------------|-----------|-----------------------------|------------------------------------------------------------|--------|------|-------------|
|                                                                                                                                                                 |          |  |    | TOLERANCES UNLESS OTHERWISE SPECIFIED |           | LEESON ELECTRIC CORPORATION |                                                            |        |      |             |
|                                                                                                                                                                 |          |  |    | DECIMALS                              |           |                             |                                                            |        |      |             |
|                                                                                                                                                                 |          |  |    | .00                                   | ± .01     | DRAWN TMZ 04/14/97          | TITLE<br>EXTERNAL WIRING DIAGRAM<br>TYPE "C" W/O PROTECTOR |        |      |             |
|                                                                                                                                                                 |          |  |    | .000                                  | ± .005    | CH'K'D.                     |                                                            |        |      |             |
|                                                                                                                                                                 |          |  |    | .0000                                 | ± .0005   | APPR.                       | MAT'L.                                                     |        |      |             |
| NO.                                                                                                                                                             | REVISION |  | BY | DATE                                  | FRACTIONS | ± 1/64                      |                                                            |        |      |             |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY<br>AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK<br>ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED |          |  |    |                                       | ANGLES    | ± 1/2'                      | REF. 5033-01                                               | FINISH | SIZE | DRAWING NO. |
|                                                                                                                                                                 |          |  |    |                                       | INCH/MM   |                             | FMF 121326                                                 | BABSON | A    | 005403-01   |
|                                                                                                                                                                 |          |  |    |                                       |           |                             |                                                            |        |      |             |



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

CERTIFICATION DATA SHEET

CATALOG #: 131554.00

CONN. DIAGRAM: 005403.01

OUTLINE: 035370-1050

WINDING #: C8414 4 A

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW   | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN         |
|----|------|-----------|----------|-------|-----------|----------|----------------|
| 3  | 2.24 | 1500      | 1440     | 184T  | DP        | H        | NO DESIGN CODE |

| PH | Hz | VOLTS | AMPS | START TYPE      | DUTY       | INSL | S.F. | AMB°C |
|----|----|-------|------|-----------------|------------|------|------|-------|
| 1  | 50 | 220   | 16.8 | ACROSS THE LINE | CONTINUOUS | F4   | 1.15 | 40    |

|                |    |               |      |               |      |          |                   |
|----------------|----|---------------|------|---------------|------|----------|-------------------|
| FULL LOAD EFF: | 76 | 3/4 LOAD EFF: | 74.9 | 1/2 LOAD EFF: | 0.7  | GTD. EFF | ELEC. TYPE        |
| FULL LOAD PF:  | 79 | 3/4 LOAD PF:  | 73.4 | 1/2 LOAD PF:  | 61.1 | 72       | CAP START IND RUN |

|             |                   |                |                |             |
|-------------|-------------------|----------------|----------------|-------------|
| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE    | B.D. TORQUE    | F.L. RISE°C |
| 10.8 LB-FT  | 93                | 26 LB-FT 241 % | 23 LB-FT 213 % | 95.5        |

|                        |             |               |             |                 |               |                   |
|------------------------|-------------|---------------|-------------|-----------------|---------------|-------------------|
| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2    | MAX. WK^2   | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
| 0 dBA                  | 10 dBA      | 0.459 LB-FT^2 | 0.5 LB-FT^2 | 10 SEC.         | 0             | 83 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 - LEESON (ENAMEL) |

|          |      |            |            |            |             |                   |                |
|----------|------|------------|------------|------------|-------------|-------------------|----------------|
| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL    | FRAME MATERIAL |
| DE       | ODE  |            |            |            |             |                   |                |
| BALL     | BALL |            |            |            |             |                   |                |
| 6206     | 6205 | POLYREX EM | T          | NONE       | NONE        | AISI 1045 (C-240) | ROLLED STEEL   |

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

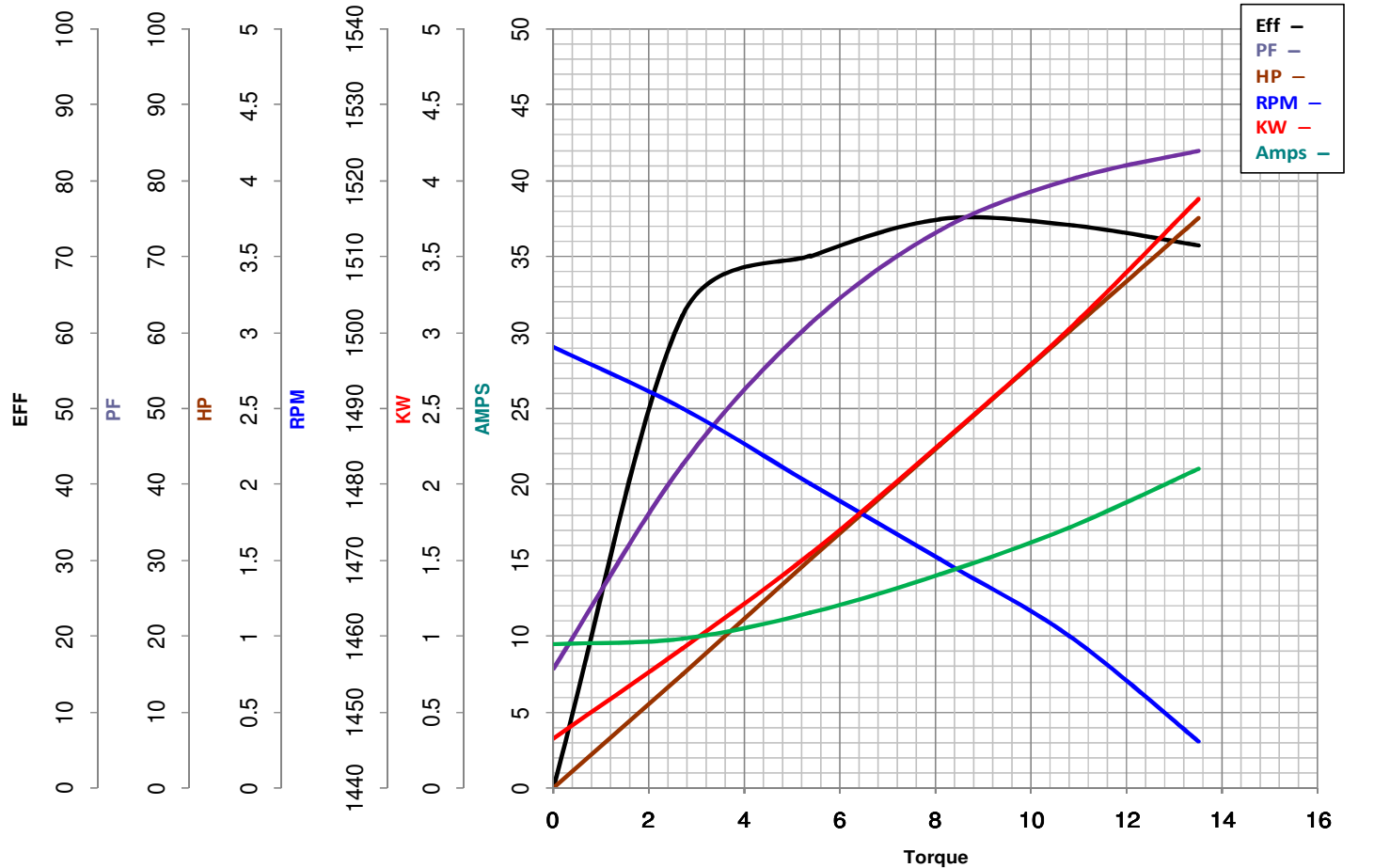
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|                           |
|---------------------------|
| INVERTER TORQUE: NONE     |
| INV. HP SPEED RANGE: NONE |
| ENCODER: NONE             |
| NONE NONE                 |
| NONE NONE PPR             |
| BRAKE: NONE NONE          |
| NONE P/N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



# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 131554.00Catalog No 131554.00Curve at 220  
50  
3Volts  
HZ  
HPHP 3.00VOLTS 220HZ 50PHASE 1RPM 1440

Torque in Lb.Ft

FL TORQUE 10.8 Lb.Ft  
 BD TORQUE 23.0 Lb.Ft  
 LR TORQUE 26 Lb.Ft

FL AMPS 16.8  
 PU TORQUE 22.6 Lb.Ft  
 LR AMPS 93

WINDING C8414-4

Date 7/17/2018