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# Customer information packet

## EM3157T-57

2/1.5KWHP, 1460RPM, 3PH, 50HZ, 145T, 3528M, OP

Class - None

Division - Not Applicable

## Specifications

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Enclosure                      | OPEN                                          |
| Frame                          | 145T                                          |
| Frame Material                 | Steel                                         |
| Frequency                      | 50.00 Hz                                      |
| Haz Area Class and Group       | None                                          |
| Haz Area Division              | Not Applicable                                |
| Motor Letter Type              | Three Phase                                   |
| Output @ Frequency             | 2.000 HP @ 50 HZ                              |
| Phase                          | 3                                             |
| Synchronous Speed @ Frequency  | 1500 RPM @ 50 HZ                              |
| Voltage @ Frequency            | 400.0 V @ 50 HZ<br>230.0 V @ 50 HZ            |
| Agency Approvals               | C UR US<br>CE<br>CURUS<br>IE3<br>UKCA<br>WEEE |
| Ambient Temperature            | 40 °C                                         |
| Auxiliary Box                  | NO AUXILLARY BOX                              |
| Auxiliary Box Lead Termination | None                                          |
| Base Indicator                 | Rigid                                         |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                       |
| Blower                         | None                                          |
| Current @ Voltage              | 5.300 A @ 230.0 V<br>3.100 A @ 400.0 V        |
| Design Code                    | B                                             |
| Drip Cover                     | No Drip Cover                                 |
| Duty Rating                    | CONT                                          |
| Efficiency @ 100% Load         | 85.5 %                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                     |
| Feedback Device                | NO FEEDBACK                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  | 35BB001    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG303   |
| Layout       | 35LYBB001  |
| Eff. date    | 05-07-2024 |
| CD Diagram   | CD0022     |
| Poles        | 04         |
| Leads        | 6#18       |
| Proprietary  | False      |
| Created date | 03-11-2022 |

|                               |                     |
|-------------------------------|---------------------|
| Front Shaft Indicator         | None                |
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 3.1 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Not Inverter        |
| KVA Code                      | J                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Quantity/Wire Size | 6 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3528M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 12.13 IN            |
| Power Factor                  | 81                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.875 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1460 rpm            |
| Speed Code                    | Single Speed        |
| Starting Method               | Direct on line      |
| Thermal Device - Bearing      | None                |
| Thermal Device - Winding      | None                |
| Vibration Sensor Indicator    | No Vibration Sensor |
| Winding Thermal 1             | None                |
| Winding Thermal 2             | None                |

## Nameplate

| NP2716L        |               |      |          |      |    |      |    |  |  |
|----------------|---------------|------|----------|------|----|------|----|--|--|
| CAT NO         | EM3157T-57    |      |          |      |    |      |    |  |  |
| SPEC.          | 35BB001G303G1 |      |          |      |    |      |    |  |  |
| HP             | 2/1.5KW       |      |          |      |    | PH   | 3  |  |  |
| VOLTS          | 230/400       |      |          |      |    |      |    |  |  |
| AMP            | 5.3/3.1       |      |          |      |    |      |    |  |  |
| R.P.M. (1/MIN) | 1460          |      |          |      |    |      |    |  |  |
| FRAME          | 145T          |      | HZ       | 50   |    | I.P. | 23 |  |  |
| SER.F.         | 1.15          | CODE | J        | DES  | B  | CL   | F  |  |  |
| NOM.EFF.       | 85.5          |      | % (100%) |      |    |      |    |  |  |
| PF             | 81            |      |          |      |    |      |    |  |  |
| RATING         | 40C AMB-CONT  |      |          |      | CC |      |    |  |  |
| DE BRG         | 6205          |      | ODE      | 6203 |    |      |    |  |  |
| ENCL           | OPEN          | SN   |          |      |    |      |    |  |  |
| BLANK          | SFA 6.1/3.5   |      |          |      |    |      |    |  |  |
|                | 20KG IC01     |      |          |      |    |      |    |  |  |
|                |               |      |          |      |    |      |    |  |  |

## AC Induction Motor Performance Data

Record # 86991

Typical performance - not guaranteed values

| Winding: 35WGG303-R002 |    |         | Type: 3528M                              |                     | Enclosure: OPEN         |                       |        |       |
|------------------------|----|---------|------------------------------------------|---------------------|-------------------------|-----------------------|--------|-------|
| Nameplate Data         |    |         | 400 V, 50 Hz:<br>High Voltage Connection |                     |                         |                       |        |       |
| Rated Output (HP)      |    | 2       | Full Load Torque                         |                     | 7.1 LB-FT               |                       |        |       |
| Volts                  |    | 230/400 | Start Configuration                      |                     | direct on line          |                       |        |       |
| Full Load Amps         |    | 5.3/3.1 | Breakdown Torque                         |                     | 21.59 LB-FT             |                       |        |       |
| R.P.M.                 |    | 1460    | Pull-up Torque                           |                     | 17.05 LB-FT             |                       |        |       |
| Hz                     | 50 | Phase   | 3                                        | Locked-rotor Torque |                         | 19.18 LB-FT           |        |       |
| NEMA Design Code       |    | B       | KVA Code                                 | J                   | Starting Current        |                       | 22.6 A |       |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 1.54 A                  |                       |        |       |
| NEMA Nom. Eff.         |    | 85.5    | Power Factor                             |                     | 81                      | Line-line Res. @ 25°C |        | 9.9 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                       | 69°C   |       |
| S.F. Amps              |    | 6.1/3.5 | Temp. Rise @ S.F. Load                   |                     | 86°C                    |                       |        |       |
|                        |    |         | Locked-rotor Power Factor                |                     | 62.7                    |                       |        |       |
|                        |    |         | Rotor inertia                            |                     | 0.202 lb-ft²            |                       |        |       |

## Load Characteristics 400 V, 50 Hz, 2 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 40   | 61   | 75   | 81   | 85   | 87   | 83   |
| Efficiency      | 80.8 | 86.6 | 87.1 | 85.7 | 84   | 81.5 | 84.7 |
| Speed           | 1492 | 1482 | 1471 | 1459 | 1445 | 1431 | 1451 |
| Line amperes    | 1.66 | 1.98 | 2.48 | 3.06 | 3.76 | 4.52 | 3.48 |

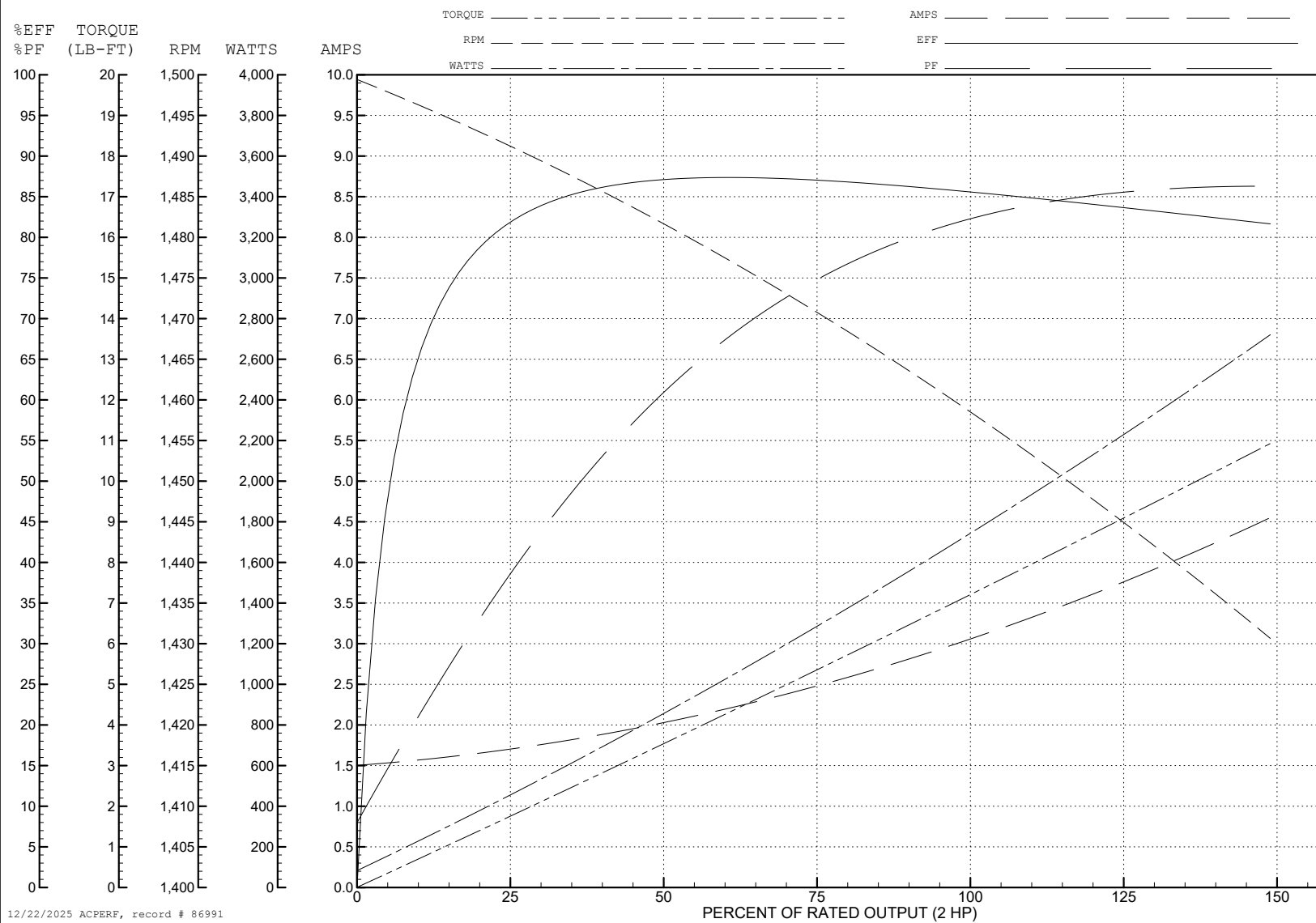
ABB Motors and Mechanical Inc.

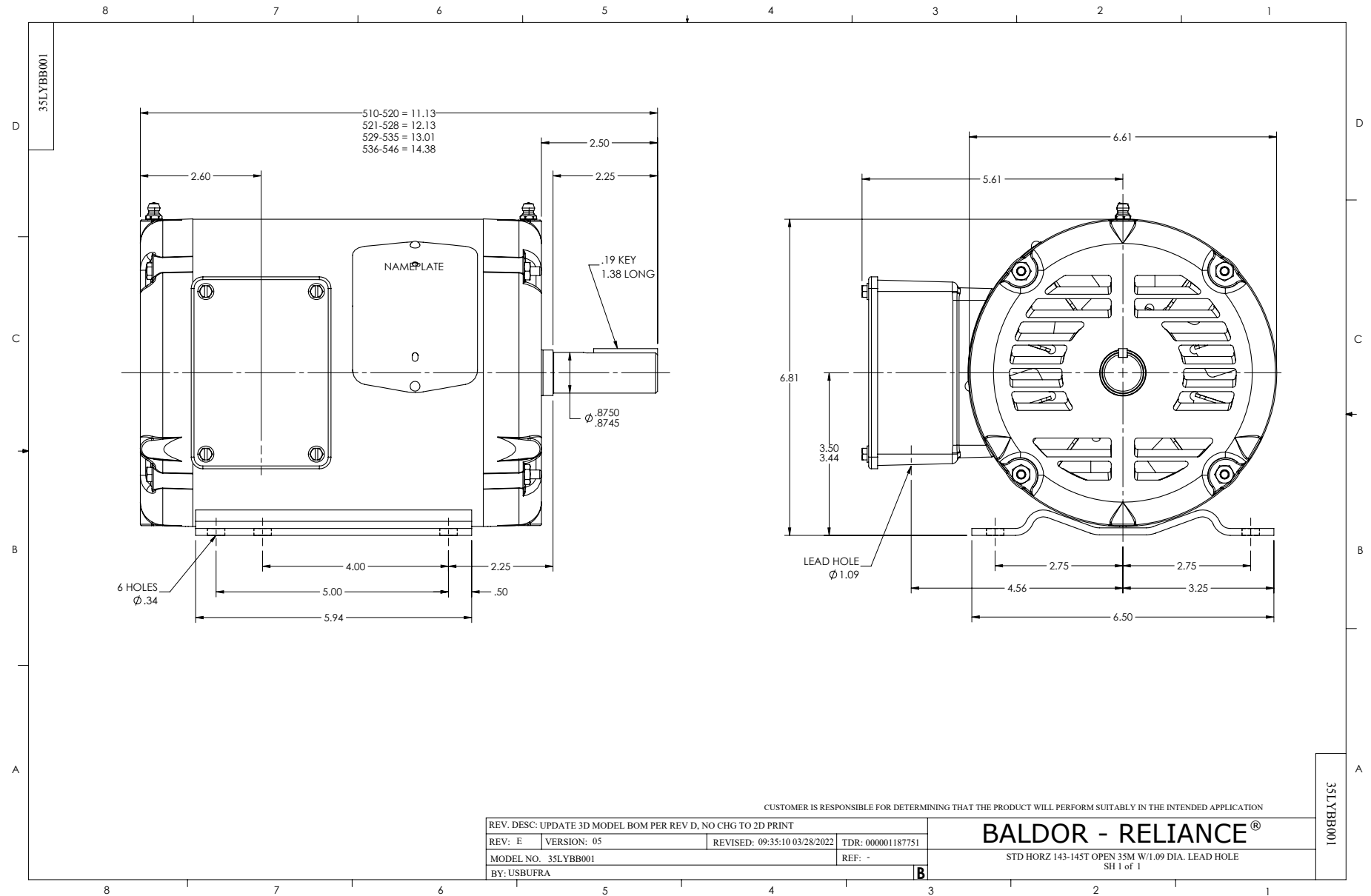
WINDING # 35WGG303

Typical performance - not guaranteed values.

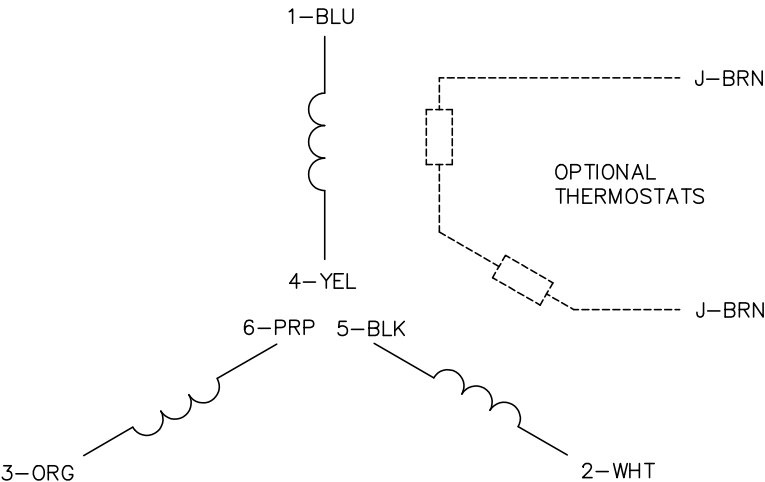
2 HP 3 PH 50 HZ 1460 RPM 400 V 3528M

TORQUES (LB-FT): PO=21.59 PU=17.05 LR=19.18 LRA=22.6

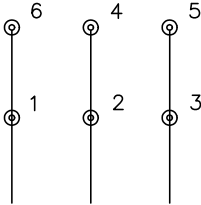




CD0022

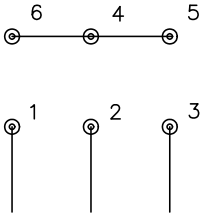


LOW VOLTAGE  
(1D)



LINE

HIGH VOLTAGE  
(1Y)



LINE

- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
  - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                        |              |
|-------------------------------------------|---------|------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                        |              |
| REV. LTR: F                               | BY: JLP | REVISED: 01/21/99 3:54 | TDR: 0171435 |
| CD0022                                    |         | FILE: AAA00005144      | MDL: -       |
|                                           |         | MTL: -                 |              |

BALDOR ELECTRIC Co.

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022