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# Customer information packet

## EM3556

1HP, 1170RPM, 3PH, 60HZ, 56, 3526M, TEFC, F1, N

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 56                                                          |
| Frame Material                 | Steel                                                       |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | 1.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR               |
| Ambient Temperature            | 40 °C                                                       |
| Auxillary Box                  | No Auxillary Box                                            |
| Auxillary Box Lead Termination | None                                                        |
| Base Indicator                 | Rigid                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 3.500 A @ 208.0 V<br>3.000 A @ 230.0 V<br>1.500 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 82.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  | 35A011     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG019   |
| Layout       | 35LYA011   |
| Eff. date    | 04-29-2024 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#18 Y     |
| Proprietary  | False      |
| Created date | 09-09-2022 |

|                               |                     |
|-------------------------------|---------------------|
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 1.5 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | J                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3526M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 6                   |
| Overall Length                | 13.23 IN            |
| Power Factor                  | 67                  |
| 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                | 0.625 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1170 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

## NP3441LUA

|                           |              |  |               |      |     |    |       |   |  |  |
|---------------------------|--------------|--|---------------|------|-----|----|-------|---|--|--|
| CAT.NO.                   | EM3556       |  |               |      |     |    |       |   |  |  |
| SPEC                      | 35A011G019G1 |  |               |      |     |    |       |   |  |  |
| HP                        | 1            |  |               |      |     |    |       |   |  |  |
| VOLTS                     | 230/460      |  |               |      |     |    |       |   |  |  |
| AMPS                      | 3/1.5        |  |               |      |     |    |       |   |  |  |
| RPM                       | 1170         |  |               |      |     |    |       |   |  |  |
| FRAME                     | 56           |  | HZ            | 60   |     | PH | 3     |   |  |  |
| SF                        | 1.15         |  | CODE          | J    | DES | B  | CLASS | F |  |  |
| NEMA NOM. EFF             | 80           |  | PF            | 67   |     |    |       |   |  |  |
| RATING                    | 40C AMB-CONT |  |               |      |     |    |       |   |  |  |
| CC                        | 010A         |  |               |      |     |    |       |   |  |  |
| ENCL                      | TEFC         |  | SER           |      |     |    |       |   |  |  |
| DE                        | 6205         |  | ODE           | 6203 |     |    |       |   |  |  |
| VPWM INVERTER READY       |              |  | SFA 3.72/1.86 |      |     |    |       |   |  |  |
| CT6-60H(10:1)VT3-60H(20:1 |              |  |               |      |     |    |       |   |  |  |

**Accessories**

| Part number   | Description  | Multiplier |
|---------------|--------------|------------|
| 35-8762       | C FACE KIT   | A8         |
| 35EP1506A01SP | D-FLANGE KIT | A8         |

**AC Induction Motor Performance Data**

Record # 77838

Typical performance - not guaranteed values

| Winding: 35WGG019-R001 |    |         | Type: 3526M                              |                     | Enclosure: TEFC           |            |          |
|------------------------|----|---------|------------------------------------------|---------------------|---------------------------|------------|----------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |          |
| Rated Output (HP)      |    | 1       | Full Load Torque                         |                     | 4.479 LB-FT               |            |          |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line            |            |          |
| Full Load Amps         |    | 3.0/1.5 | Breakdown Torque                         |                     | 11.9 LB-FT                |            |          |
| R.P.M.                 |    | 1155    | Pull-up Torque                           |                     | 7.06 LB-FT                |            |          |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                           | 8.62 LB-FT |          |
| NEMA Design Code       |    | B       | KVA Code                                 | J                   | Starting Current          |            | 9.06 A   |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 1.02 A                    |            |          |
| NEMA Nom. Eff.         |    | 0       | Power Factor                             | 0                   | Line-line Res. @ 25°C     |            | 20.372 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 46°C     |
| S.F. Amps              |    |         |                                          |                     | Temp. Rise @ S.F. Load    |            | 56°C     |
|                        |    |         |                                          |                     | Locked-rotor Power Factor |            | 48       |

**Load Characteristics 460 V, 60 Hz, 1 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125  | 150  | S.F. |
|-----------------|--------|--------|--------|--------|------|------|------|
| Power Factor    | 29     | 47     | 1      | 1      | 1    | 1    | 1    |
| Efficiency      | 73.5   | 81.9   | 83.5   | 83.1   | 81.6 | 79.1 | 82.2 |
| Speed           | 1192.5 | 1185.4 | 1177.6 | 1168.7 | 1159 | 1147 | 1163 |
| Line amperes    | 1.07   | 1.21   | 1.41   | 1.67   | 1.98 | 2.35 | 1.86 |

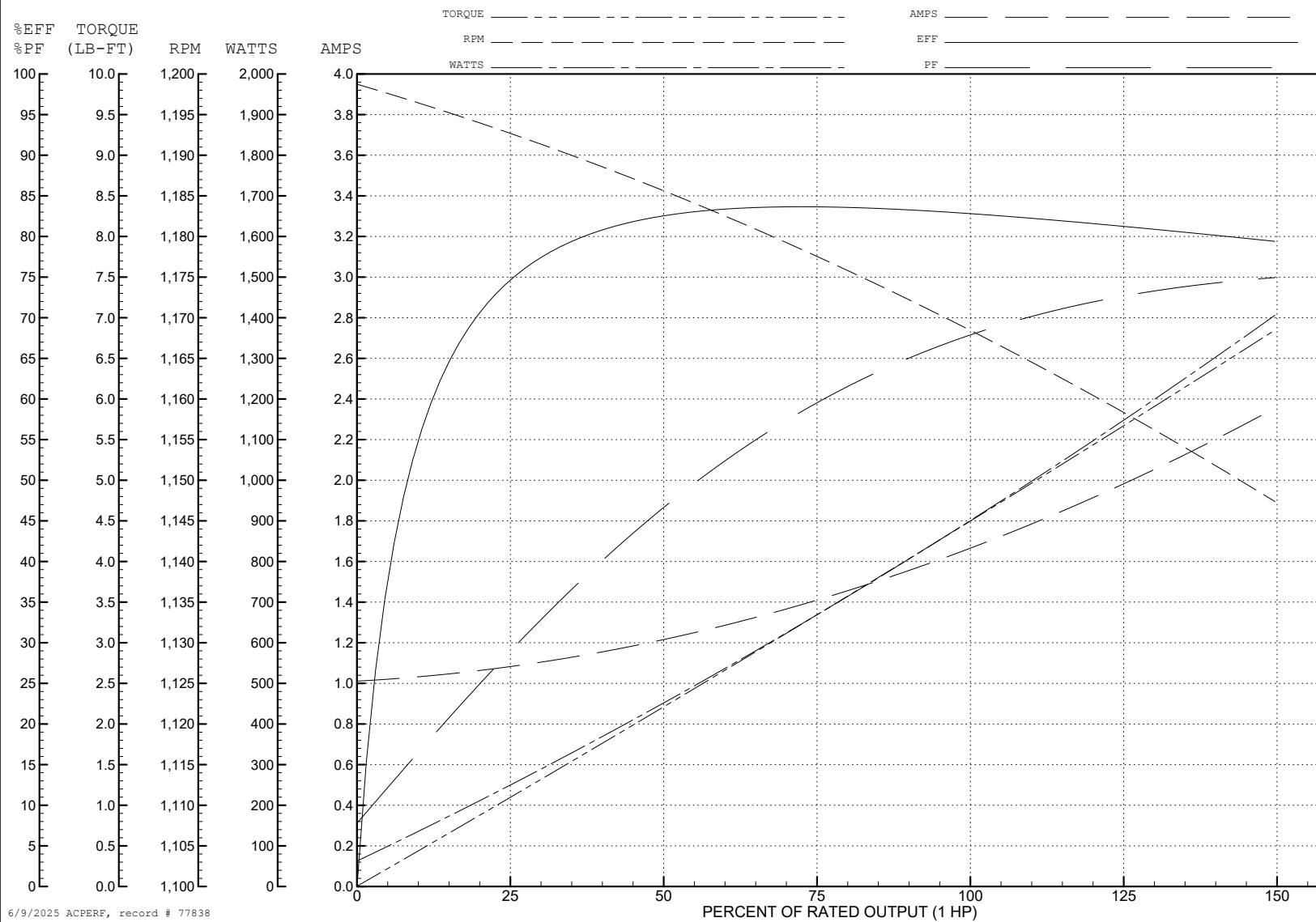
ABB Motors and Mechanical Inc.

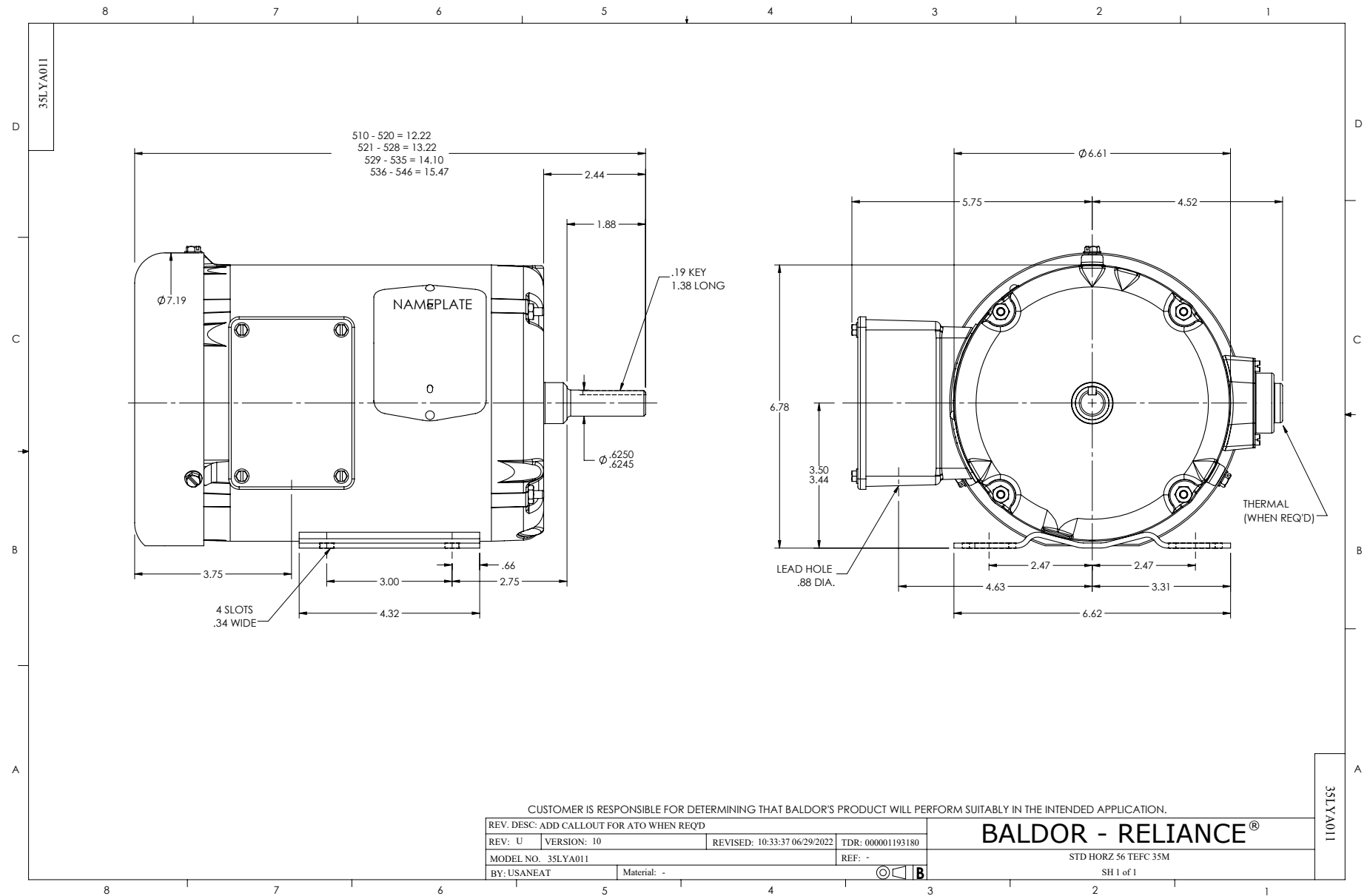
WINDING # 35WGG019

Typical performance - not guaranteed values.

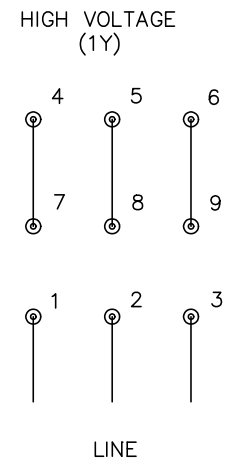
1 HP 3 PH 60 HZ 1155 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06





CD0005



- 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: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005