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# Customer information packet

## EM2333T-5G

15HP, 1765RPM, 3PH, 60HZ, 254T, 0944M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | TEFC                      |
| Frame                          | 254T                      |
| Frame Material                 | Iron                      |
| Frequency                      | 60.00 Hz                  |
| Haz Area Class and Group       | None                      |
| Haz Area Division              | Not Applicable            |
| Motor Letter Type              | Three Phase               |
| Output @ Frequency             | 15.000 HP @ 60 HZ         |
| Phase                          | 3                         |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ          |
| Voltage @ Frequency            | 575.0 V @ 60 HZ           |
| Agency Approvals               | UR<br>CSA<br>CSA EEV      |
| 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              | 14.600 A @ 575.0 V        |
| Design Code                    | A                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 92.4 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Front Face Code                | Standard                  |
| Front Shaft Indicator          | None                      |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 14.6 a                    |
| Insulation Class               | H                         |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AK         |
| Type         | AC         |
| Mech. spec.  | 09J359     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 09WGT124   |
| Layout       | 09LYJ359   |
| Eff. date    | 04-16-2024 |
| CD Diagram   | CD0006     |
| Poles        | 04         |
| Leads        | 3#12       |
| Proprietary  | False      |
| Created date | 10-23-2015 |

|                               |                       |
|-------------------------------|-----------------------|
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | H                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 3 @ 12 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 0944M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 23.30 IN              |
| Power Factor                  | 83                    |
| 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                | 1.625 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | Shaft Grounding       |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 1765 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

| NP3441L                   |              |      |     |      |   |    |    |   |  |  |  |
|---------------------------|--------------|------|-----|------|---|----|----|---|--|--|--|
| CAT.NO.                   | EM2333T-5G   |      |     |      |   |    |    |   |  |  |  |
| SPEC.                     | 09J359T124G1 |      |     |      |   |    |    |   |  |  |  |
| HP                        | 15           |      |     |      |   |    |    |   |  |  |  |
| VOLTS                     | 575          |      |     |      |   |    |    |   |  |  |  |
| AMP                       | 14.6         |      |     |      |   |    |    |   |  |  |  |
| RPM                       | 1765         |      |     |      |   |    |    |   |  |  |  |
| FRAME                     | 254T         |      | HZ  | 60   |   |    | PH | 3 |  |  |  |
| SER.F.                    | 1.15         | CODE | H   | DES  | A | CL | H  |   |  |  |  |
| NEMA-NOM-EFF              | 92.4         | PF   | 83  |      |   |    |    |   |  |  |  |
| RATING                    | 40C AMB-CONT |      |     |      |   |    |    |   |  |  |  |
| CC                        | 010A         |      |     |      |   |    |    |   |  |  |  |
| DE                        | 6309         |      | ODE | 6208 |   |    |    |   |  |  |  |
| ENCL                      | TEFC         | SN   |     |      |   |    |    |   |  |  |  |
| VPWM INVERTER READY       |              |      |     |      |   |    |    |   |  |  |  |
| CT6-60H(10:1)VT3-60H(20:1 |              |      |     |      |   |    |    |   |  |  |  |
|                           |              |      |     |      |   |    |    |   |  |  |  |

**AC Induction Motor Performance Data**

Record # 47379

Typical performance - not guaranteed values

| Winding: 09WGT124-R002 |  |              |  | Type: 0944M                           |  | Enclosure: TEFC |  |
|------------------------|--|--------------|--|---------------------------------------|--|-----------------|--|
| Nameplate Data         |  |              |  | 575 V, 60 Hz:<br>Single Voltage Motor |  |                 |  |
| Rated Output (HP)      |  | 15           |  | Full Load Torque                      |  | 44.5 LB-FT      |  |
| Volts                  |  | 575          |  | Start Configuration                   |  | direct on line  |  |
| Full Load Amps         |  | 14.6         |  | Breakdown Torque                      |  | 153 LB-FT       |  |
| R.P.M.                 |  | 1765         |  | Pull-up Torque                        |  | 69.5 LB-FT      |  |
| Hz                     |  | 60           |  | Phase                                 |  | 3               |  |
| NEMA Design Code       |  | A            |  | KVA Code                              |  | H               |  |
| Service Factor (S.F.)  |  | 1.15         |  | No-load Current                       |  | 6.05 A          |  |
| NEMA Nom. Eff.         |  | 92.4         |  | Power Factor                          |  | 83              |  |
| Rating - Duty          |  | 40C AMB-CONT |  | Temp. Rise @ Rated Load               |  | 54°C            |  |
| S.F. Amps              |  |              |  | Temp. Rise @ S.F. Load                |  | 66°C            |  |
|                        |  |              |  | Locked-rotor Power Factor             |  | 33.1            |  |
|                        |  |              |  | Rotor inertia                         |  | 1.92 LB-FT2     |  |

**Load Characteristics 575 V, 60 Hz, 15 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 45   | 69   | 78   | 83   | 85   | 87   | 86   |
| Efficiency      | 88.1 | 92.3 | 92.6 | 92.4 | 91.5 | 90.5 | 92.2 |
| Speed           | 1791 | 1783 | 1774 | 1765 | 1755 | 1743 | 1769 |
| Line amperes    | 6.9  | 8.8  | 11.6 | 14.6 | 18.1 | 21.5 | 16.3 |

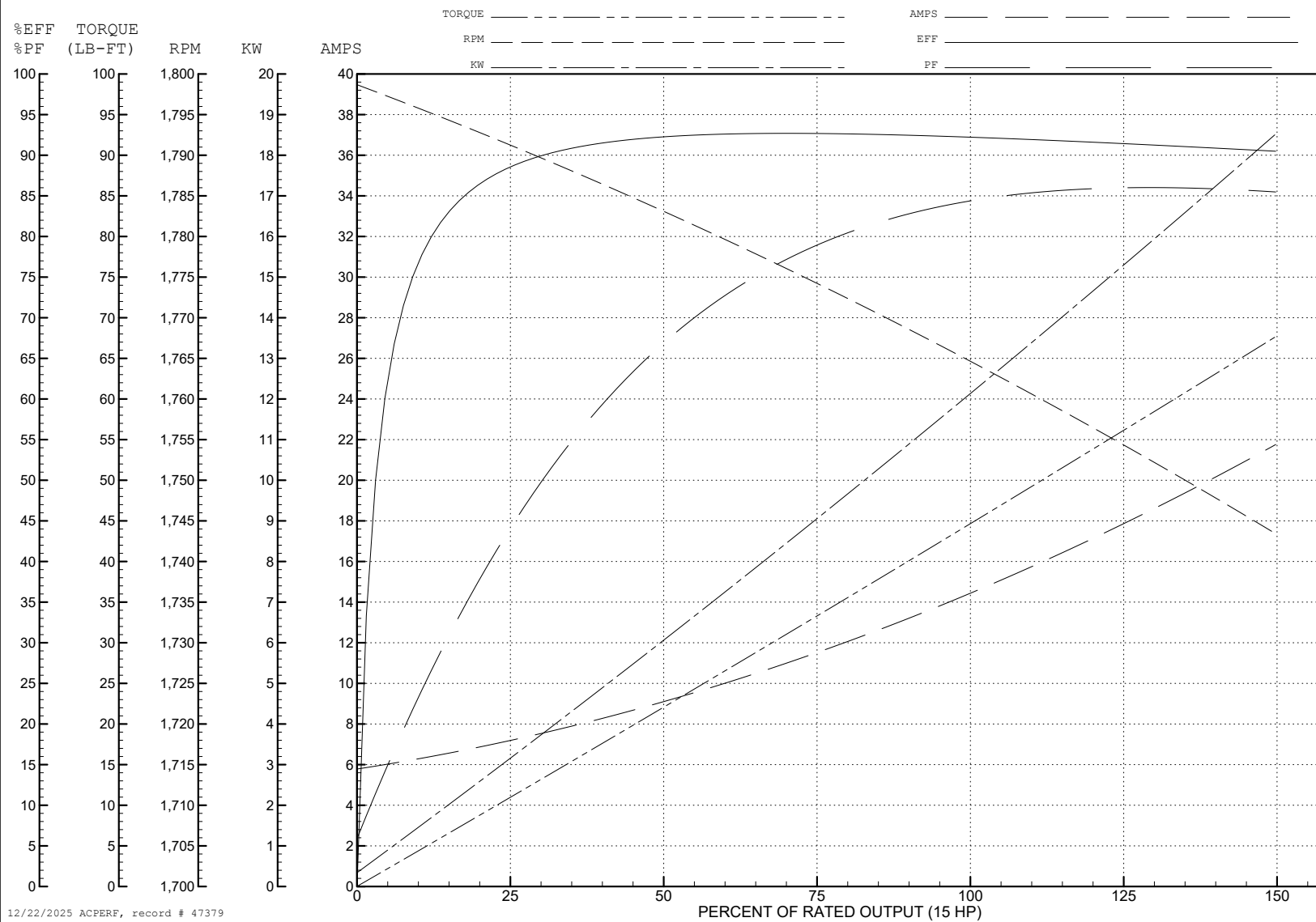
ABB Motors and Mechanical Inc.

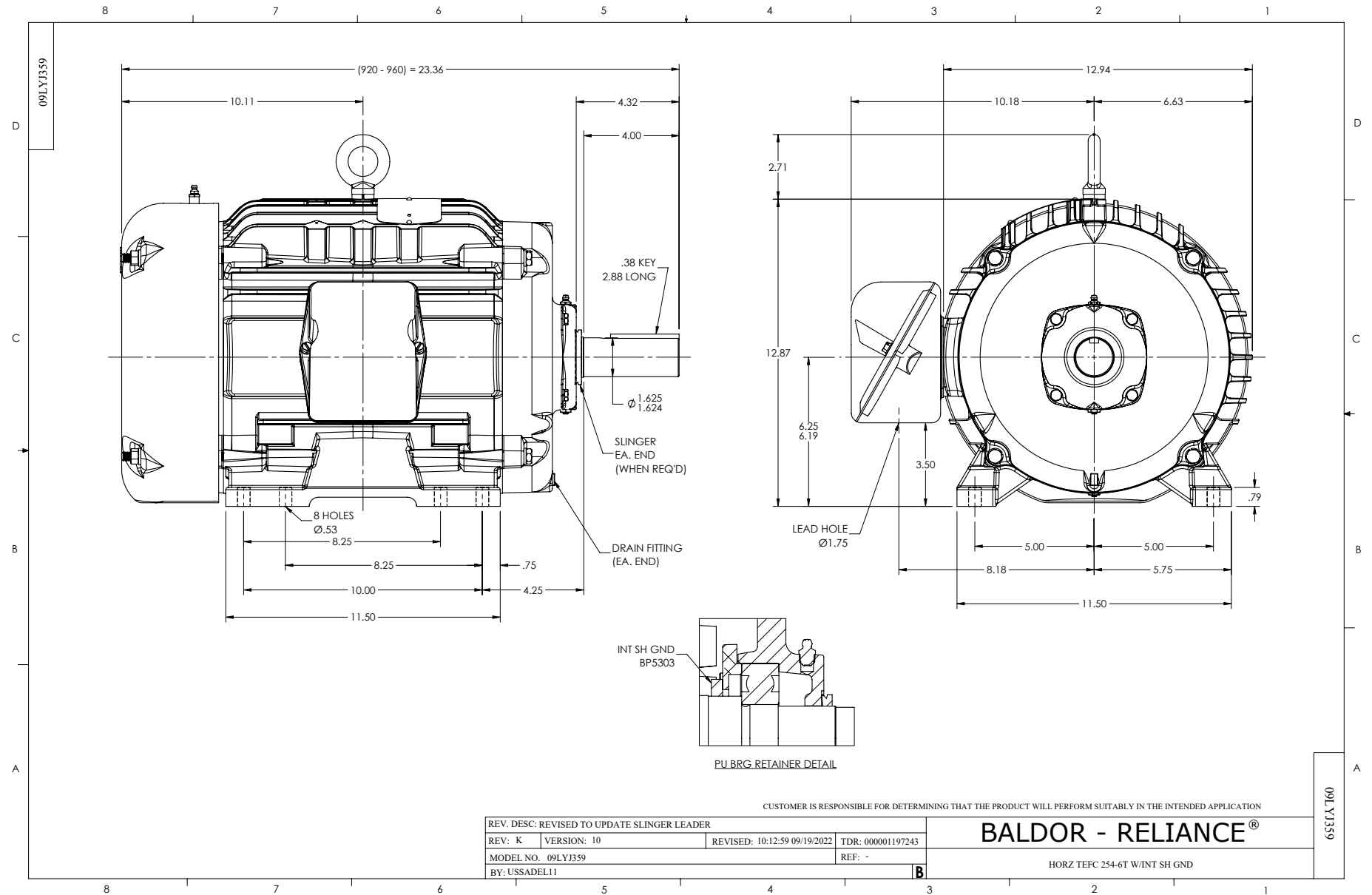
WINDING # 09WGT124

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 575 V 0944M

TORQUES (LB-FT): PO=153 PU=69.5 LR=86.5 LRA=102





CD0006



- NOTES:
- 1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
  - 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
  - 5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

|                                   |                                |                   |
|-----------------------------------|--------------------------------|-------------------|
| REV. DESC: ADD CLASS CONN00000007 |                                |                   |
| REV. LTR: E                       | VERSION: 01                    | TDR: 000001099922 |
| FILE: \AAA\00005\141              | REVISED: 10: 24: 49 02/19/2019 | BY: ENBRIRO       |
| MTL: —                            |                                |                   |

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1