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# Customer information packet

## HBEM3587T

26M 4P TEFC HOR 145T

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 145T                                                        |
| 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             | 2.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| Agency Approvals               | CURUSEEV<br>NEMA PREMIUM<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              | 5.600 A @ 230.0 V<br>5.800 A @ 208.0 V<br>2.800 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 86.5 %                                                      |
| Electrically Isolated Bearing  | Electrically Isolated Bearings                              |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | G          |
| Type         | AC         |
| Mech. spec.  | 05H396     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 05WGX509   |
| Layout       | 05LYH396   |
| Eff. date    | 12-06-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 01-04-2022 |

|                               |                       |
|-------------------------------|-----------------------|
| High Voltage Full Load Amps   | 2.8 a                 |
| Insulation Class              | H                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | L                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Max Speed                     | 2700 rpm              |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 0526M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 12.54 IN              |
| Power Factor                  | 76                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Sealed Bearing        |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| RoHS Status                   | ROHS COMPLIANT        |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 0.875 IN              |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1760 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                  |



**AC Induction Motor Performance Data**

Record # 88334

Typical performance - not guaranteed values

| Winding: 05WGX509-R008 |    |         | Type: 0526M                              |                     | Enclosure: TEFC           |            |          |
|------------------------|----|---------|------------------------------------------|---------------------|---------------------------|------------|----------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |          |
| Rated Output (HP)      |    | 2       | Full Load Torque                         |                     | 5.976 LB-FT               |            |          |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line            |            |          |
| Full Load Amps         |    | 5.6/2.8 | Breakdown Torque                         |                     | 23.5 LB-FT                |            |          |
| R.P.M.                 |    | 1760    | Pull-up Torque                           |                     | 11.5 LB-FT                |            |          |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                           | 15.6 LB-FT |          |
| NEMA Design Code       |    | B       | KVA Code                                 | L                   | Starting Current          |            | 22.7 A   |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 1.69 A                    |            |          |
| NEMA Nom. Eff.         |    | 86.5    | Power Factor                             | 75                  | Line-line Res. @ 25°C     |            | 9.5456 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 40°C     |
| S.F. Amps              |    |         |                                          |                     | Temp. Rise @ S.F. Load    |            | 48°C     |
|                        |    |         |                                          |                     | Locked-rotor Power Factor |            | 58.1     |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 34     | 55     | 68     | 77     | 81     | 84     | 79   |
| Efficiency      | 77.5   | 85.2   | 86.9   | 86.8   | 85.8   | 84.3   | 86.2 |
| Speed           | 1789.9 | 1781.4 | 1772.2 | 1762.2 | 1751.3 | 1739.3 | 1756 |
| Line amperes    | 1.75   | 1.99   | 2.37   | 2.83   | 3.36   | 3.96   | 3.15 |

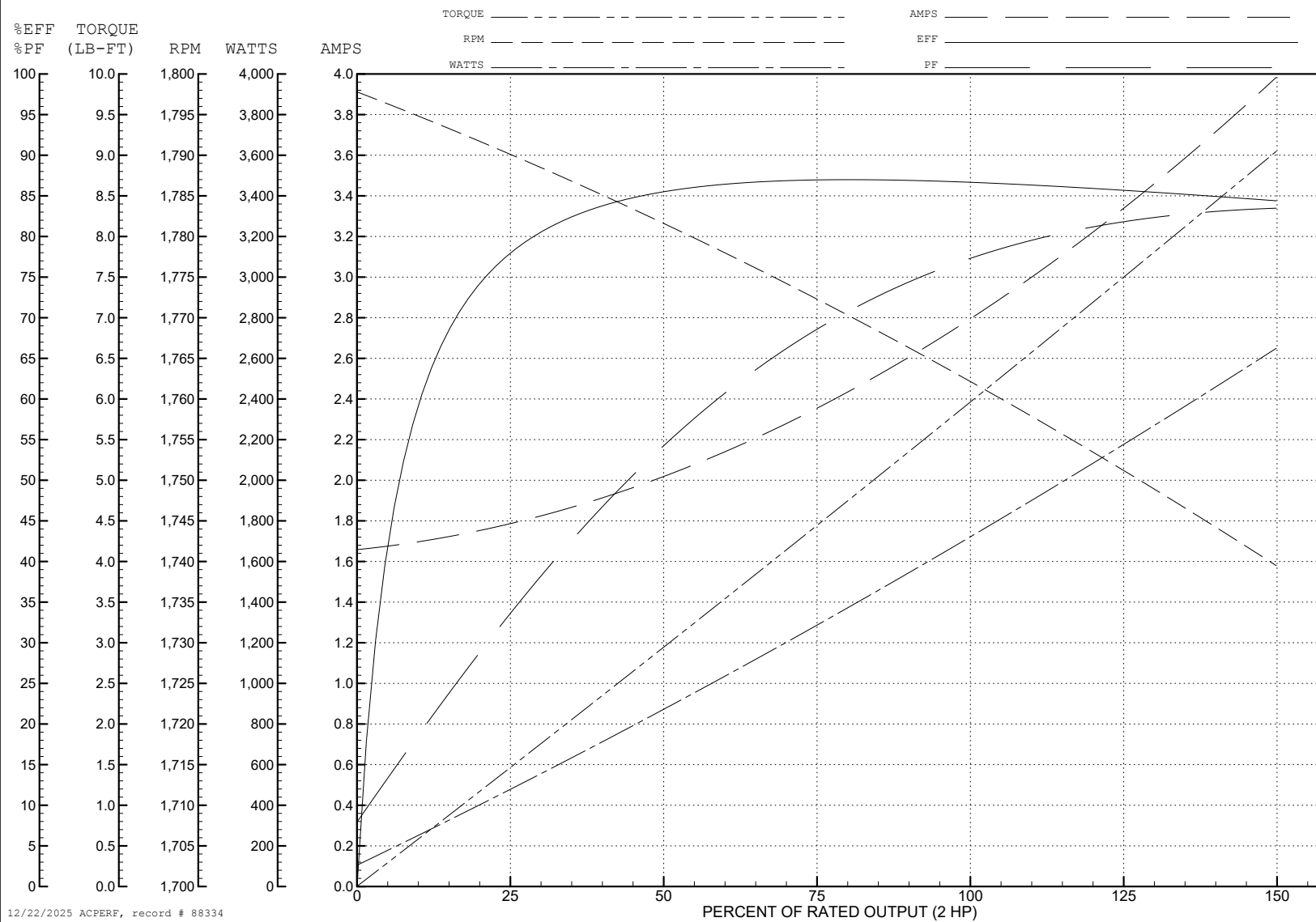
ABB Motors and Mechanical Inc.

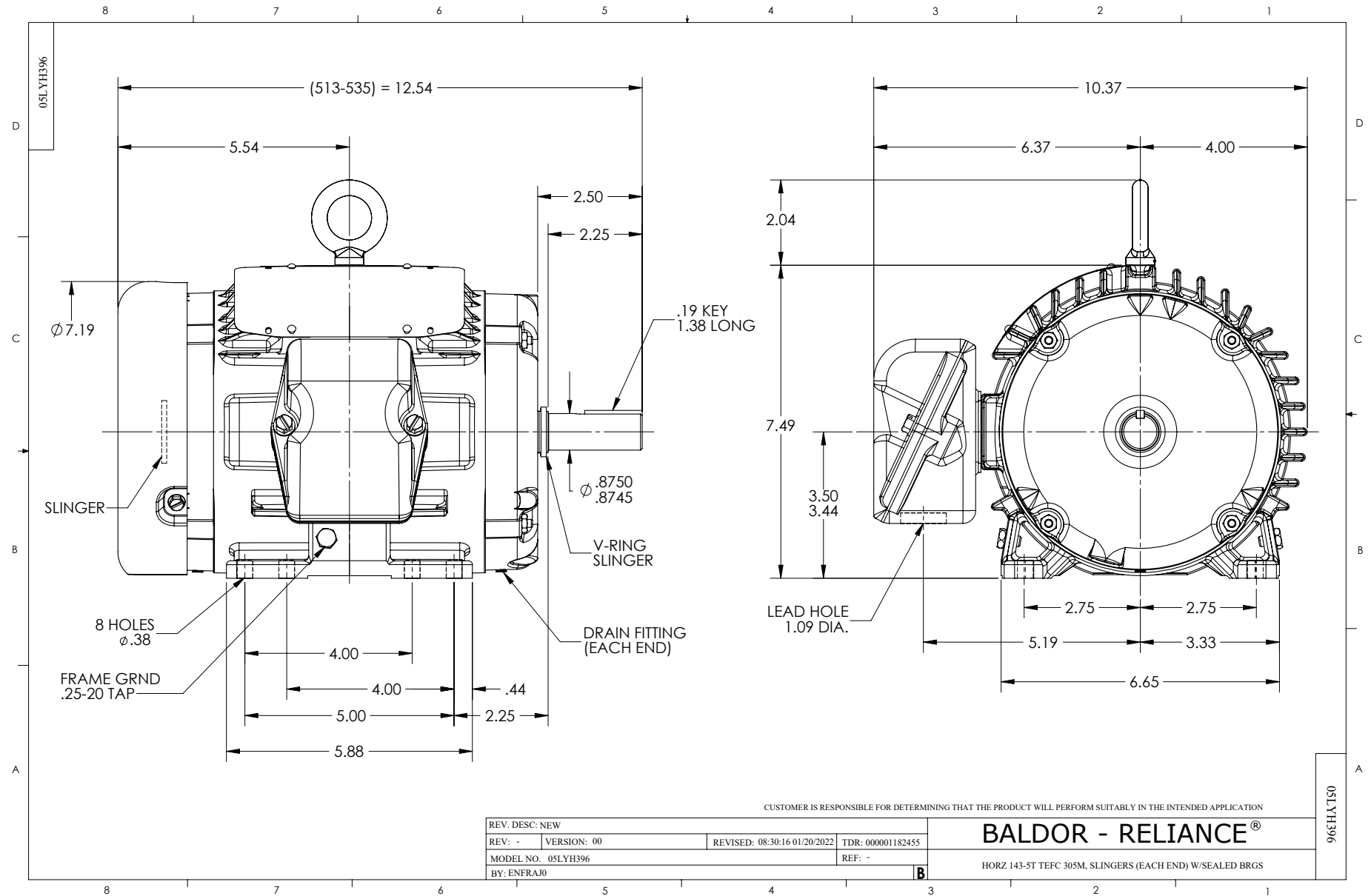
WINDING # 05WGX509

Typical performance - not guaranteed values.

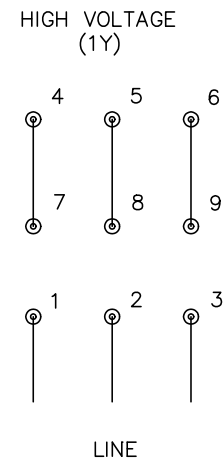
2 HP 3 PH 60 HZ 1760 RPM 460 V 0526M

TORQUES (LB-FT): PO=23.5 PU=11.5 LR=15.6 LRA=22.7





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