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# Customer information packet

## EFM3554T

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 3524M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

|                                |   |
|--------------------------------|---|
| Enclosure                      | TEFC  |
| Frame                          | 145T  |
| 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             | 1.500 HP @ 60 HZ  |
| Phase                          | 3   |
| Synchronous Speed @ Frequency  | 1800 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              | 4.640 A @ 208.0 V<br>4.600 A @ 230.0 V<br>2.300 A @ 460.0 V |
| Design Code                    | B   |
| Drip Cover                     | No Drip Cover   |
| Duty Rating                    | CONT  |
| Efficiency @ 100% Load         | 86.5 %  |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK   |
| Front Shaft Indicator          | None  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  | 35AA006    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGL955   |
| Layout       | 35LYAA006  |
| Eff. date    | 04-29-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 01-10-2022 |

|                               |                     |
|-------------------------------|---------------------|
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 2.3 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | M                   |
| 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                    | 3524M               |
| Mounting Arrangement          | F2                  |
| Number of Poles               | 4                   |
| Overall Length                | 13.31 IN            |
| Power Factor                  | 72                  |
| 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                         | 1770 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**

| <b>NP3441L</b>                   |               |             |            |            |   |           |   |  |  |
|----------------------------------|---------------|-------------|------------|------------|---|-----------|---|--|--|
| <b>CAT.NO.</b>                   | EFM3554T      |             |            |            |   |           |   |  |  |
| <b>SPEC.</b>                     | 35AA006L955G1 |             |            |            |   |           |   |  |  |
| <b>HP</b>                        | 1.5           |             |            |            |   |           |   |  |  |
| <b>VOLTS</b>                     | 230/460       |             |            |            |   |           |   |  |  |
| <b>AMP</b>                       | 4.6/2.3       |             |            |            |   |           |   |  |  |
| <b>RPM</b>                       | 1770          |             |            |            |   |           |   |  |  |
| <b>FRAME</b>                     | 145T          |             | <b>HZ</b>  | 60         |   | <b>PH</b> | 3 |  |  |
| <b>SER.F.</b>                    | 1.15          | <b>CODE</b> | M          | <b>DES</b> | B | <b>CL</b> | F |  |  |
| <b>NEMA-NOM-EFF</b>              | 86.5          | <b>PF</b>   | 72         |            |   |           |   |  |  |
| <b>RATING</b>                    | 40C AMB-CONT  |             |            |            |   |           |   |  |  |
| <b>CC</b>                        | 010A          |             |            |            |   |           |   |  |  |
| <b>DE</b>                        | 6205          |             | <b>ODE</b> | 6203       |   |           |   |  |  |
| <b>ENCL</b>                      | TEFC          | <b>SN</b>   |            |            |   |           |   |  |  |
| <b>VPWM INVERTER READY</b>       |               |             |            |            |   |           |   |  |  |
| <b>CT6-60H(10:1)VT3-60H(20:1</b> |               |             |            |            |   |           |   |  |  |
|                                  | SFA 4.72/2.36 |             |            |            |   |           |   |  |  |

**AC Induction Motor Performance Data**

Record # 95387

Typical performance - not guaranteed values

| Winding: 35WGL955-R001 |                   | Type: 3524M               | Enclosure: TEFC                                  |            |
|------------------------|-------------------|---------------------------|--|------------|
| <b>Nameplate Data</b>  |                   |                           | <b>460 V, 60 Hz:<br/>High Voltage Connection</b> |            |
| Rated Output (HP)      | 1.5               | Full Load Torque          | 4.48 LB-FT                                       |            |
| Volts                  | 230/460           | Start Configuration       | direct on line                                   |            |
| Full Load Amps         | 4.6/2.3           | Breakdown Torque          | 18.8 LB-FT                                       |            |
| R.P.M.                 | 1770              | Pull-up Torque            | 9.6 LB-FT  |            |
| Hz                     | 60 Phase          | 3                         | Locked-rotor Torque                              | 12.6 LB-FT |
| NEMA Design Code       | B KVA Code        | M                         | Starting Current                                 | 19.7 A     |
| Service Factor (S.F.)  | 1.15              | No-load Current           | 1.51 A   |            |
| NEMA Nom. Eff.         | 86.5 Power Factor | 72                        | Line-line Res. @ 25°C                            | 11.8 Ω     |
| Rating - Duty          | 40C AMB-CONT      | Temp. Rise @ Rated Load   | 48°C   |            |
| S.F. Amps              | 5/2.5             | Temp. Rise @ S.F. Load    | 57°C   |            |
|                        |                   | Locked-rotor Power Factor | 58.4   |            |
|                        |                   | Rotor inertia             | 0.173 lb-ft <sup>2</sup>                         |            |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 31   | 49   | 63   | 72   | 78   | 81   | 76   |
| Efficiency      | 75.1 | 83.5 | 86   | 86.5 | 85.8 | 84.8 | 86.1 |
| Speed           | 1792 | 1785 | 1777 | 1769 | 1760 | 1750 | 1764 |
| Line amperes    | 1.56 | 1.72 | 1.97 | 2.28 | 2.65 | 3.06 | 2.5  |

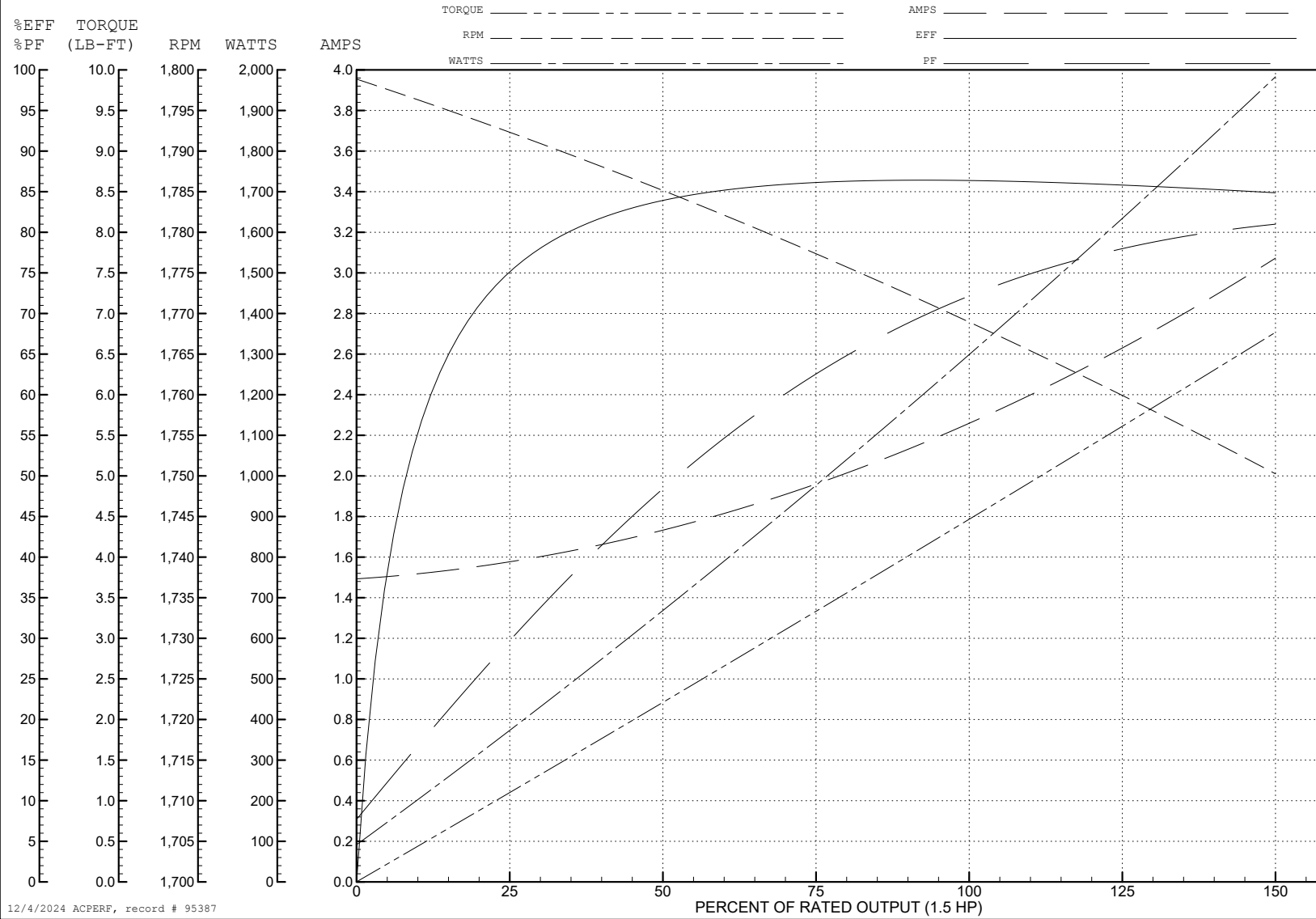
ABB Motors and Mechanical Inc.

WINDING # 35WGL955

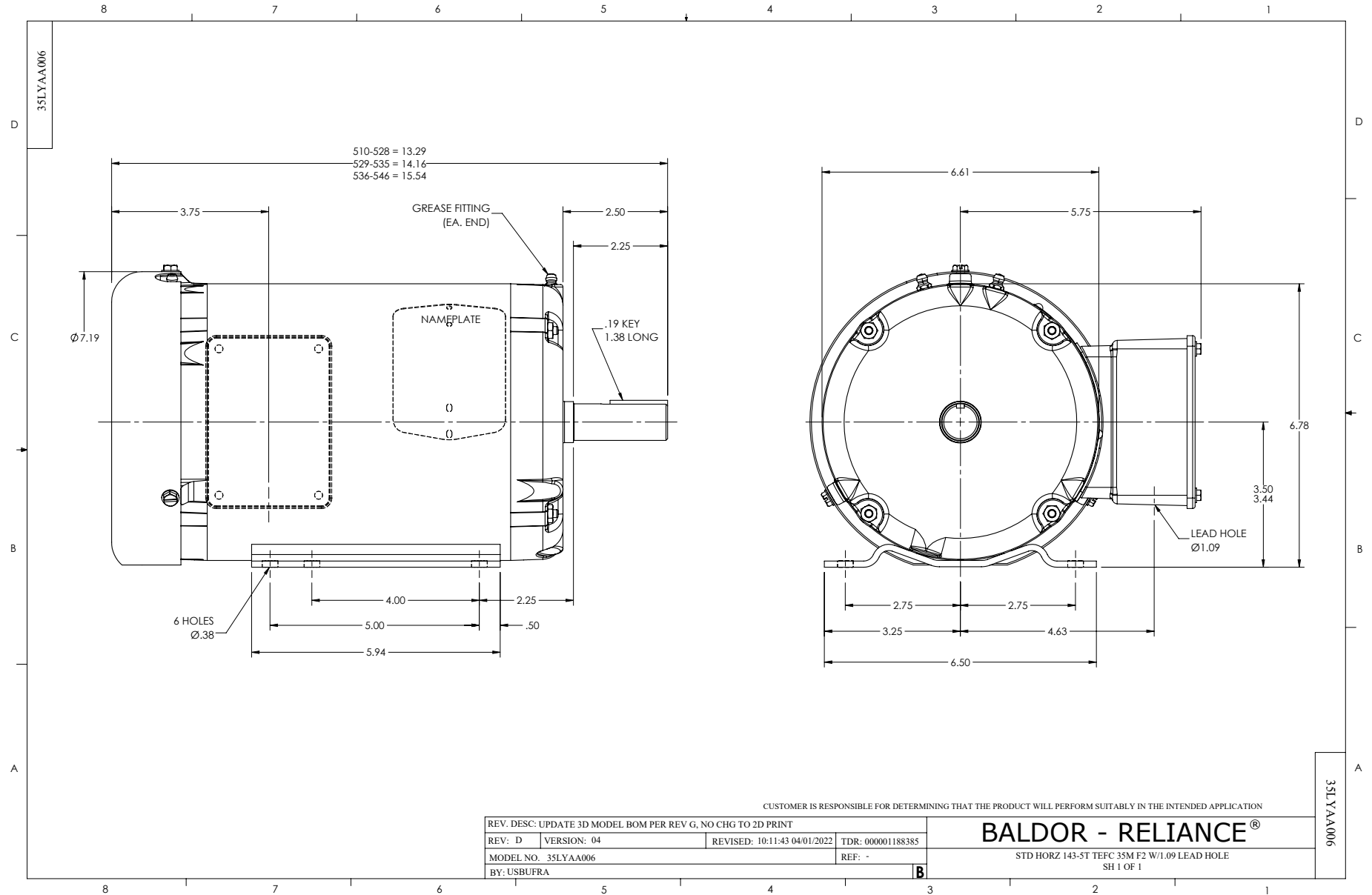
1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3524M

Typical performance - not guaranteed values.

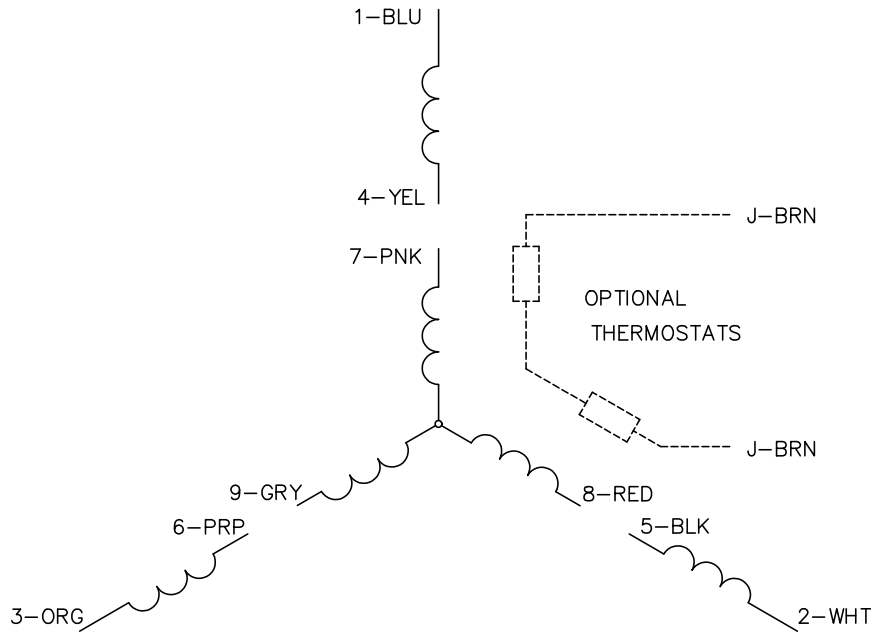
TORQUES (LB-FT): PO=18.8 PU=9.6 LR=12.6 LRA=19.7



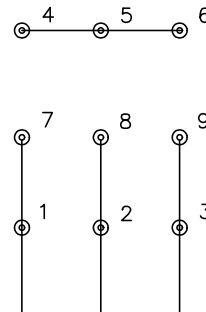
12/4/2024 ACPERF, record # 95387



CD0005

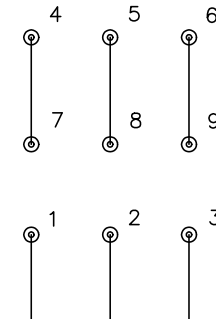


LOW VOLTAGE  
(2Y)



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.

CD0005

|   |         |                         |              |
|---|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| S00000                                    |         | FILE: AAA00005140       | MDL: -       |
|   |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS