



Customer information packet

ECP3587T

2HP, 1760RPM, 3PH, 60HZ, 145T, 0526M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

| | |
|--------------------------------|---|
| Enclosure | TEFC |
| Frame | 145T |
| Frame Material | Iron |
| Frequency | 60.00 Hz |
| 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 230.0 V @ 60 HZ |
| XP Class and Group | CLIP A,B,C,D |
| XP Division | Division II |
| Agency Approvals | CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM 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 |
| Constant Torque Speed Range | 1.5 |
| Current @ Voltage | 5.800 A @ 208.0 V 5.600 A @ 230.0 V 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 | Not Electrically Isolated |

Part detail

| | |
|--------------|------------|
| Revision | D |
| Type | AC |
| Mech. spec. | 05F008 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 05WGX509 |
| Layout | 05LYF008 |
| Eff. date | 07-17-2023 |
| CD Diagram | CD0005 |
| Poles | 04 |
| Leads | 9#18 |
| Proprietary | False |
| Created date | 03-11-2022 |

| | |
|-------------------------------|------------------------------|
| Feedback Device | NO FEEDBACK |
| Front Shaft Indicator | None |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 2.8 a |
| Insulation Class | F |
| 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 | 12.88 IN |
| Power Factor | 76 |
| Product Family | Chemical Processing (Not DC) |
| 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 | Shaft 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 |
| XP Temp Code | T4 |

Nameplate

| NP3258 | | | | | | | | | |
|---------------------|--------------|-------------|------|------------|---|-----------|---|--|--|
| CAT.NO. | ECP3587T | | | | | | | | |
| SPEC. | 05F008X509G1 | | | | | | | | |
| HP | 2 TE | | | | | | | | |
| VOLTS | 230/460 | | | | | | | | |
| AMP | 5.6/2.8 | | | | | | | | |
| RPM | 1760 | | | | | | | | |
| FRAME | 145T | HZ | 60 | PH | 3 | | | | |
| SER.F. | 1.15 | CODE | L | DES | B | CL | F | | |
| RATING | 40C AMB-CONT | | | | | | | | |
| SN | | | | | | | | | |
| DE | 6205 | ODE | 6205 | | | | | | |
| NEMA-NOM-EFF | 86.5 | PF | 76 | | | | | | |
| G.MIN.EFF | 84 | CC | 010A | | | | | | |
| T. CODE | T4 | T= | 135 | | | | | | |

| NP3261 | | | |
|--------------------|--------------|--------------------------------|------|
| SPEC. | 05F008X509G1 | | |
| D.E. BRG. | 25BC02XP30X | | |
| O.D.E. BRG. | 25BC02XP30X | | |
| GREASE | POLYREX EM | | |
| RPM MAX | 2700 | MAX. KVAR | 0.62 |
| BLANK | SFA 6.4/3.2 | | |
| INV.TYPE | PWM | | |
| T= | 135 | | |
| C HP FR | 60 | C HP TO | 90 |
| CT HZ FROM | 1.5 | CT HZ TO | 60 |
| VT HZ FROM | -0 | VT HZ TO | 60 |
| HTR-VOLTS | | HTR-AMPS | |
| HTR-WATTS | | MAX. SPACE HEATER TEMP. | |

Accessories

| Part number | Description | Multiplier |
|--------------------|--------------------|-------------------|
| 35-1300 | C FACE KIT | A8 |

AC Induction Motor Performance Data

Record # 78972

Typical performance - not guaranteed values

| Winding: 05WGX509-R001 | | Type: 0526M | | Enclosure: TEFC | | |
|-------------------------------|--------------|---------------------|--|------------------------------|-------------------------|--------|
| Nameplate Data | | | 460 V, 60 Hz: 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 |

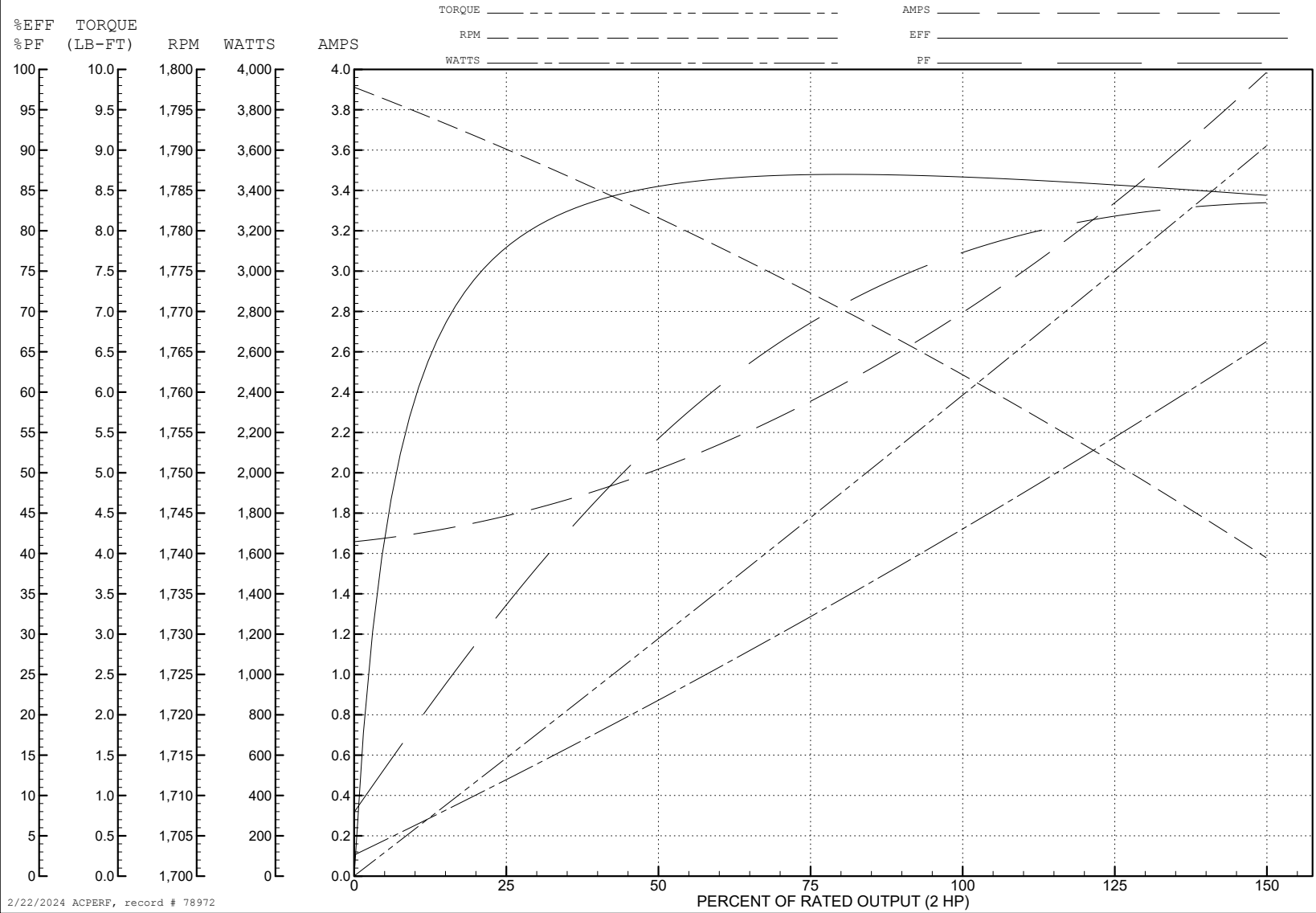
ABB Motors and Mechanical Inc.

WINDING # 05WGX509

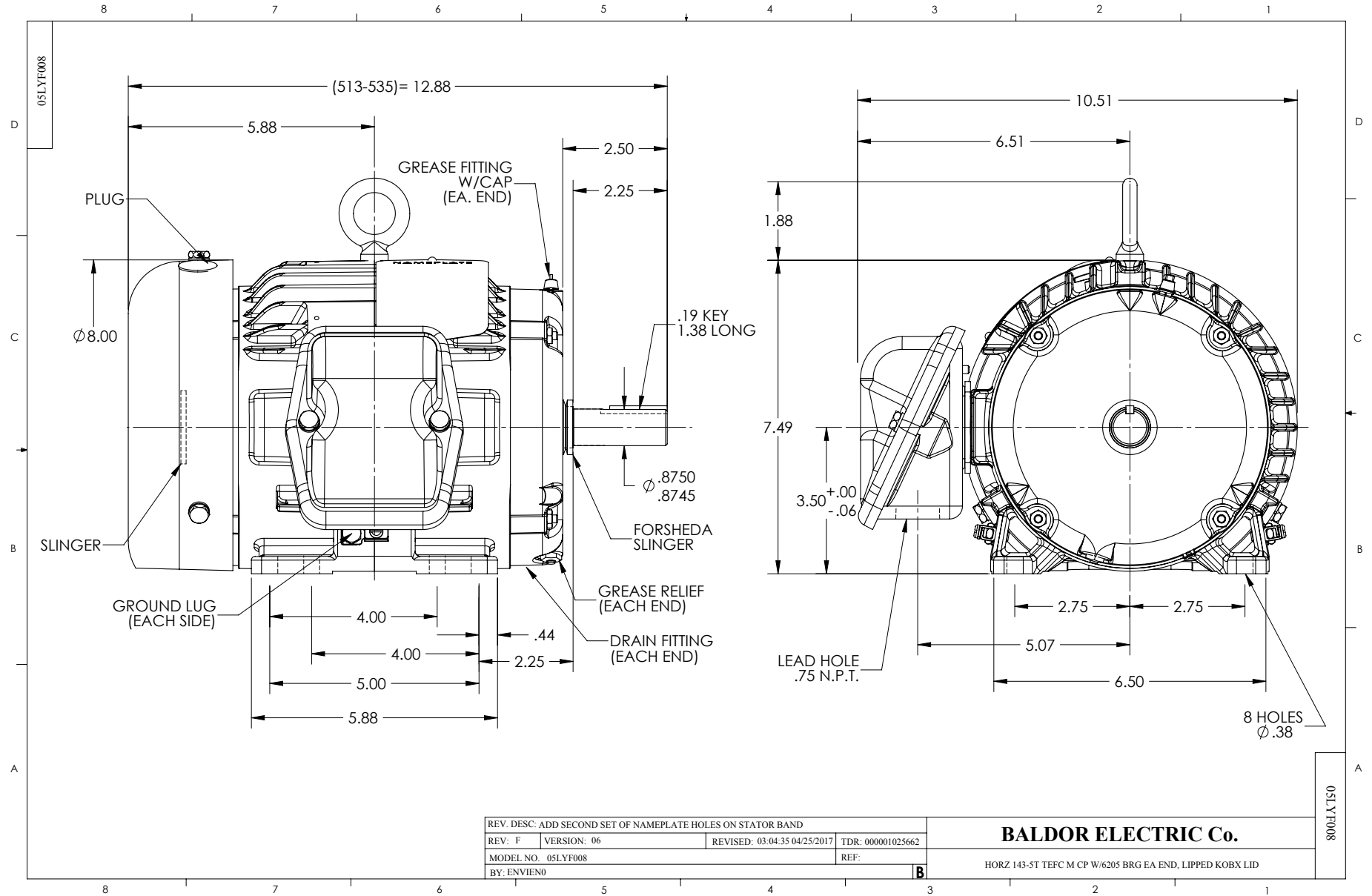
2 HP 3 PH 60 HZ 1760 RPM 460 V 0526M

Typical performance - not guaranteed values.

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



2/22/2024 ACPERF, record # 78972



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