



Customer information packet

ECP2334T-5

20HP, 1770RPM, 3PH, 60HZ, 256T, 0960M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

| | |
|--------------------------------|--|
| Enclosure | TEFC |
| Frame | 256T |
| Frame Material | Iron |
| Frequency | 60.00 Hz |
| Haz Area Class and Group | CLI GP A,B,C,D |
| Haz Area Division | Division II |
| Motor Letter Type | Three Phase |
| Output @ Frequency | 20.000 HP @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ |
| Voltage @ Frequency | 575.0 V @ 60 HZ |
| Agency Approvals | CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US |
| 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 | 1.0 |
| Current @ Voltage | 19.200 A @ 575.0 V |
| Design Code | A |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 93.0 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Enclosure Modification | Severe Duty Features |
| Feedback Device | NO FEEDBACK |
| Front Face Code | Standard |

Part detail

| | |
|--------------|------------|
| Revision | P |
| Type | AC |
| Mech. spec. | 09J371 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 09WGT507 |
| Layout | 09LYJ371 |
| Eff. date | 07-19-2024 |
| CD Diagram | CD0006 |
| Poles | 04 |
| Leads | 3#10 |
| Proprietary | False |
| Created date | 11-27-2017 |

| | |
|-------------------------------|-----------------------------|
| Front Shaft Indicator | None |
| Haz Area Temp Code | T3C |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 19.2 a |
| Insulation Class | F |
| Inverter Code | Inverter Duty |
| KVA Code | J |
| Lifting Lugs | Standard Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Max Speed | 2700 rpm |
| Motor Lead Exit | Ko Box |
| Motor Lead Quantity/Wire Size | 3 @ 10 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 0960M |
| Mounting Arrangement | F1 |
| Number of Poles | 4 |
| Overall Length | 24.78 IN |
| Power Factor | 83 |
| Product Family | Super-E Chemical Processing |
| 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 | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Shaft Slinger Indicator | Shaft 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 |

AC Induction Motor Performance Data

Record # 68095

Typical performance - not guaranteed values

| Winding: 09WGT507-R006 | | Type: 0960M | Enclosure: TEFC | |
|------------------------|--------------|---------------------|---|-------------------------|
| Nameplate Data | | | 575 V, 60 Hz: Single Voltage Motor | |
| Rated Output (HP) | 20 | Full Load Torque | 59.29 LB-FT | |
| Volts | 575 | Start Configuration | direct on line | |
| Full Load Amps | 19.2 | Breakdown Torque | 231 LB-FT | |
| R.P.M. | 1770 | Pull-up Torque | 126 LB-FT | |
| Hz | 60 | Phase | 3 | Locked-rotor Torque |
| NEMA Design Code | A | KVA Code | J | Starting Current |
| Service Factor (S.F.) | 1.15 | No-load Current | 8.28 A | |
| NEMA Nom. Eff. | 93 | Power Factor | 83 | Line-line Res. @ 25°C |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 58°C |
| S.F. Amps | | | Temp. Rise @ S.F. Load | 69°C |
| | | | Locked-rotor Power Factor | 26.5 |
| | | | Rotor inertia | 2.65 LB-FT ² |

Load Characteristics 575 V, 60 Hz, 20 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|-------|-------|-------|-------|-------|------|
| Power Factor | 45 | 67 | 78 | 83 | 86 | 87 | 85 |
| Efficiency | 89.2 | 93 | 93.7 | 93.5 | 93.1 | 92.4 | 93.3 |
| Speed | 1793 | 1786 | 1779 | 1772 | 1764 | 1755 | 1767 |
| Line amperes | 9.41 | 11.99 | 15.34 | 19.19 | 23.44 | 27.92 | 21.7 |

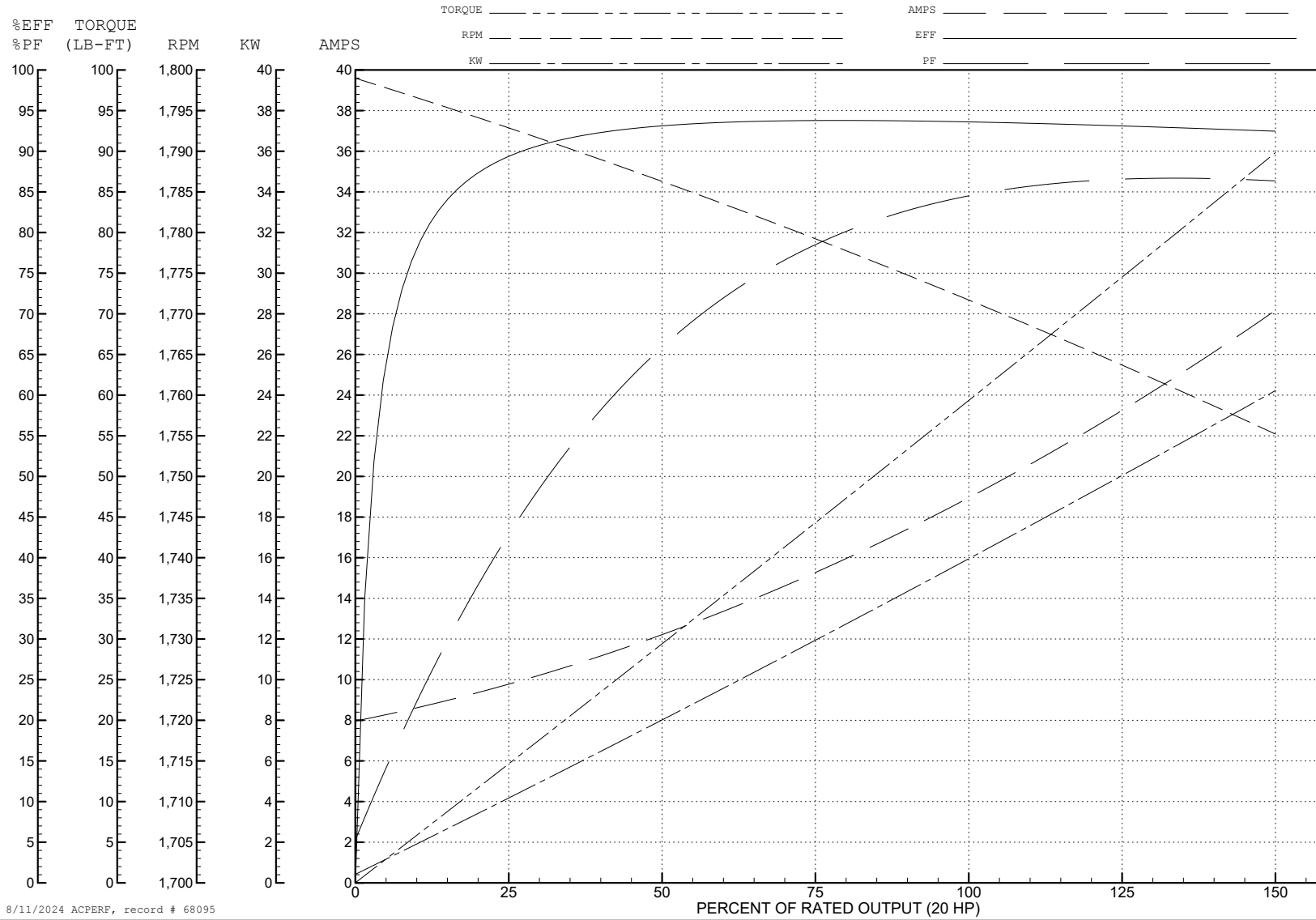
ABB Motors and Mechanical Inc.

WINDING # 09WGT507

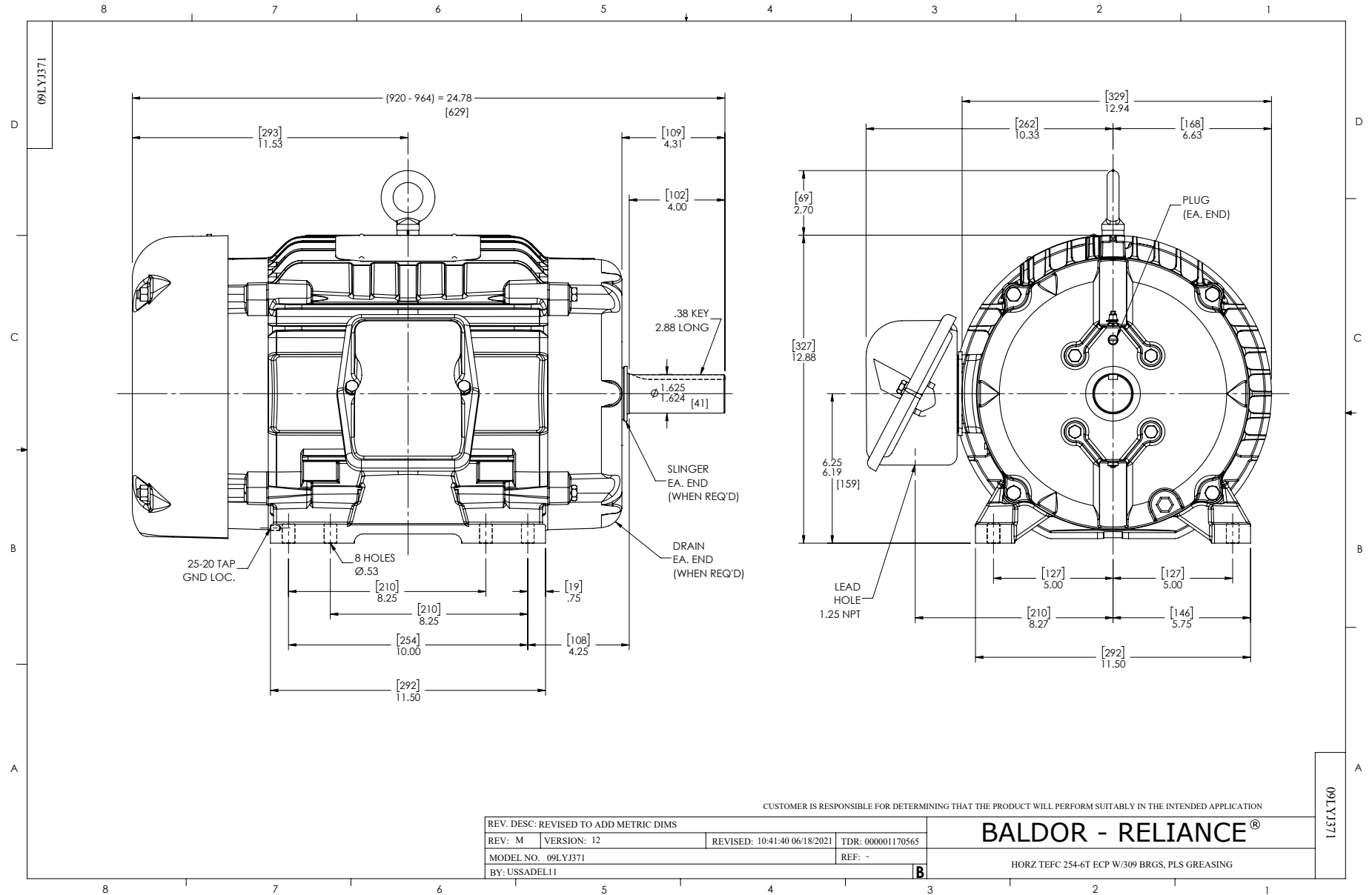
Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1770 RPM 575 V 0960M

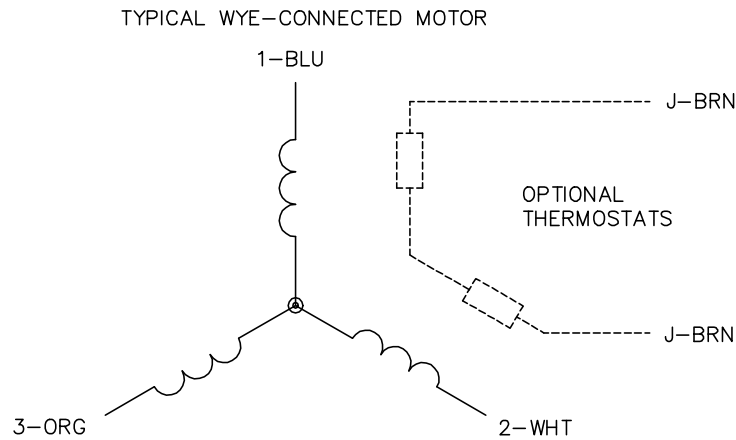
TORQUES (LB-FT): PO=231 PU=126 LR=140 LRA=158



8/11/2024 ACPERF, record # 68095



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

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|-----------------------------------|------------------------------|-------------------|
| 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

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