



Customer information packet

CECP4104T

30HP, 1770RPM, 3PH, 60HZ, 286TC, 1060M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

| | |
|--------------------------------|--|
| Enclosure | TEFC |
| Frame | 286TC |
| 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 | 30.000 HP @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ |
| Voltage @ Frequency | 230.0 V @ 60 HZ 460.0 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 | 72.000 A @ 230.0 V 36.000 A @ 460.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 93.6 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Enclosure Modification | Severe Duty Features |

Part detail

| | |
|--------------|------------|
| Revision | N |
| Type | AC |
| Mech. spec. | 10H412 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 10WGZ506 |
| Layout | 10LYH412 |
| Eff. date | 07-29-2024 |
| CD Diagram | CD0005 |
| Poles | 04 |
| Leads | 9#10 |
| Proprietary | False |
| Created date | 09-29-2016 |

| | |
|-------------------------------|-----------------------------|
| Feedback Device | NO FEEDBACK |
| Front Face Code | Standard |
| Front Shaft Indicator | None |
| Haz Area Temp Code | T3C |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 36.0 a |
| Insulation Class | F |
| Inverter Code | Inverter Duty |
| KVA Code | G |
| Lifting Lugs | Standard Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Max Speed | 2700 rpm |
| Motor Lead Exit | Ko Box |
| Motor Lead Quantity/Wire Size | 9 @ 10 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 1060M |
| Mounting Arrangement | F1 |
| Number of Poles | 4 |
| Overall Length | 28.00 IN |
| Power Factor | 84 |
| Product Family | Super-E Chemical Processing |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | C-Face |
| Pulley Shaft Indicator | Standard |
| Rodent Screen | None |
| Service Factor | 1.15 |
| Shaft Diameter | 1.875 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 |

Nameplate

NP3241

| | | | | | |
|-------------------|--------------|---------------------------|------|--------------------------------|------------|
| CAT.NO. | CECP4104T | P/N | | ENCLOSURE | TEFC |
| SPEC. | 10H412Z506G1 | CC | 010A | FRAME | 286TC |
| HP | 30 | CLASS | F | HZ | 60 |
| RPM | 1770 | RPM MAX | 2700 | PH | 3 |
| VOLT | 230/460 | MOTOR WEIGHT | 478 | KVA-CODE | G |
| AMP | 72/36 | SER.F. | 1.15 | PF | 84 |
| RATING | 40C AMB-CONT | NEMA-NOM-EFF | 93.6 | ODE BRG | 6311 |
| | | | | DE BRG | 6311 |
| | | | | GREASE | POLYREX EM |
| | | | | INV.TYPE | PWM |
| TEMP CODE | T3C | INVERTER-TEMP-CODE | 180 | | |
| TEMP = | 160 | C HP FR | 60 | C HP TO | 90 |
| CT HZ FROM | 1.0 | CT HZ TO | 60 | | |
| HTR-VOLTS | | HTR-AMPS | | HTR-WATTS | |
| | | | | MAX. SPACE HEATER TEMP. | |
| | | | | VT HZ FROM | 0 |
| | | | | VT HZ TO | 60 |

AC Induction Motor Performance Data

Record # 59573

Typical performance - not guaranteed values

| Winding: 10WGZ506-R004 | | Type: 1060M | | Enclosure: TEFC | |
|-------------------------------|--------------------------|----------------------------------|---|------------------------|--|
| Nameplate Data | | | 460 V, 60 Hz: Single Voltage Motor | | |
| Rated Output (HP) | 30 | Full Load Torque | 88.64 LB-FT | | |
| Volts | 230/460 | Start Configuration | direct on line | | |
| Full Load Amps | 72/36 | Breakdown Torque | 267 LB-FT | | |
| R.P.M. | 1770 | Pull-up Torque | 116 LB-FT | | |
| Hz | 60 Phase | 3 | Locked-rotor Torque | 142 LB-FT | |
| NEMA Design Code | B KVA Code | G | Starting Current | 215 A | |
| Service Factor (S.F.) | 1.15 | No-load Current | 13.5 A | | |
| NEMA Nom. Eff. | 93.6 Power Factor | 84 | Line-line Res. @ 25°C | 0.234 Ω | |
| Rating - Duty | 40C AMB-CONT | Temp. Rise @ Rated Load | 62°C | | |
| S.F. Amps | | Temp. Rise @ S.F. Load | 76°C | | |
| | | Locked-rotor Power Factor | 29.7 | | |
| | | Rotor inertia | 4.77 LB-FT ² | | |

Load Characteristics 460 V, 60 Hz, 30 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| Power Factor | 48 | 71 | 80 | 84 | 85 | 85 | 83 |
| Efficiency | 91 | 94 | 94.3 | 94 | 93.7 | 92 | 93.4 |
| Speed | 1793 | 1787 | 1779 | 1772 | 1764 | 1753 | 1769 |
| Line amperes | 15.8 | 21.1 | 27.8 | 35.6 | 44 | 53.5 | 41.5 |

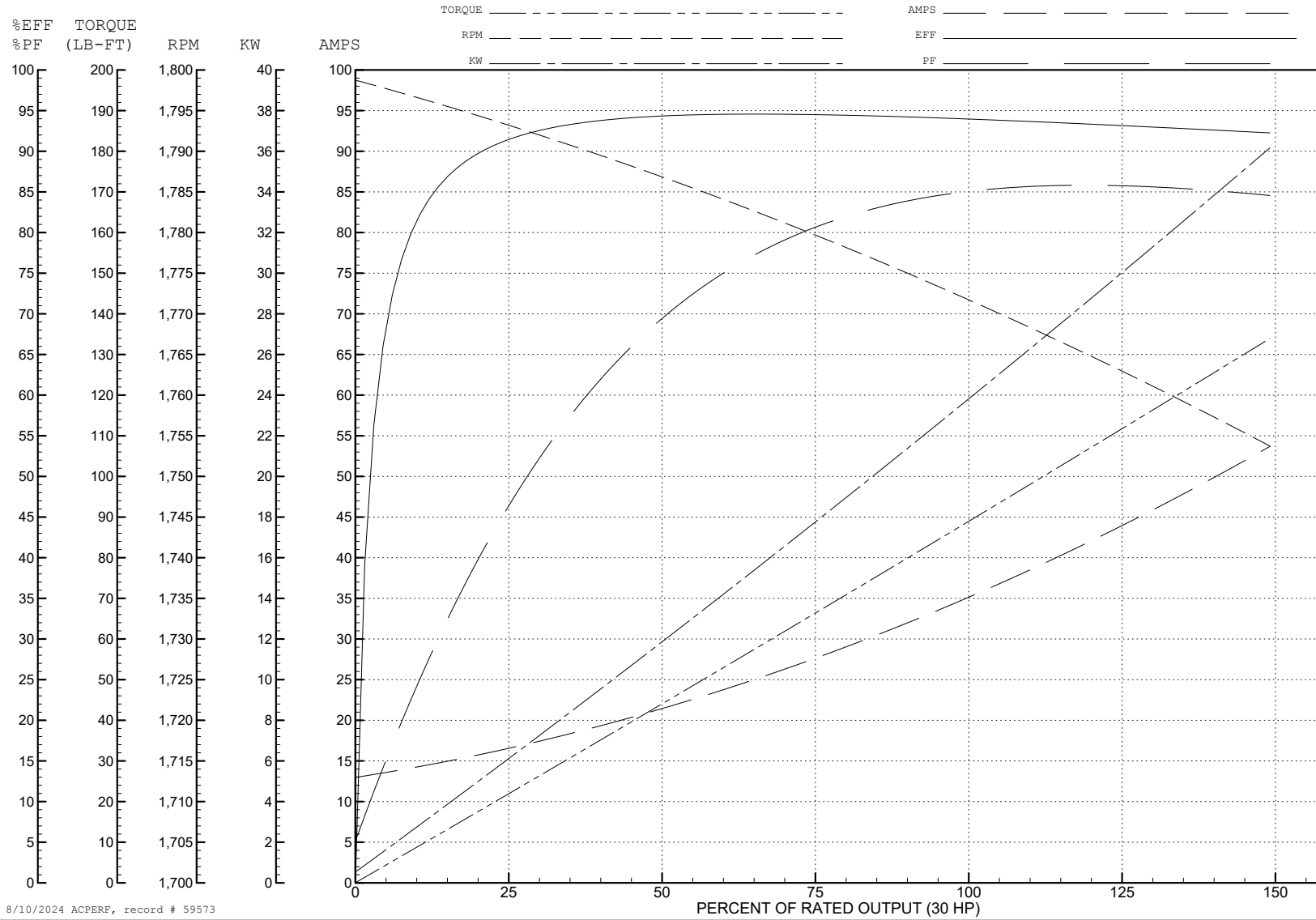
ABB Motors and Mechanical Inc.

WINDING # 10WGZ506

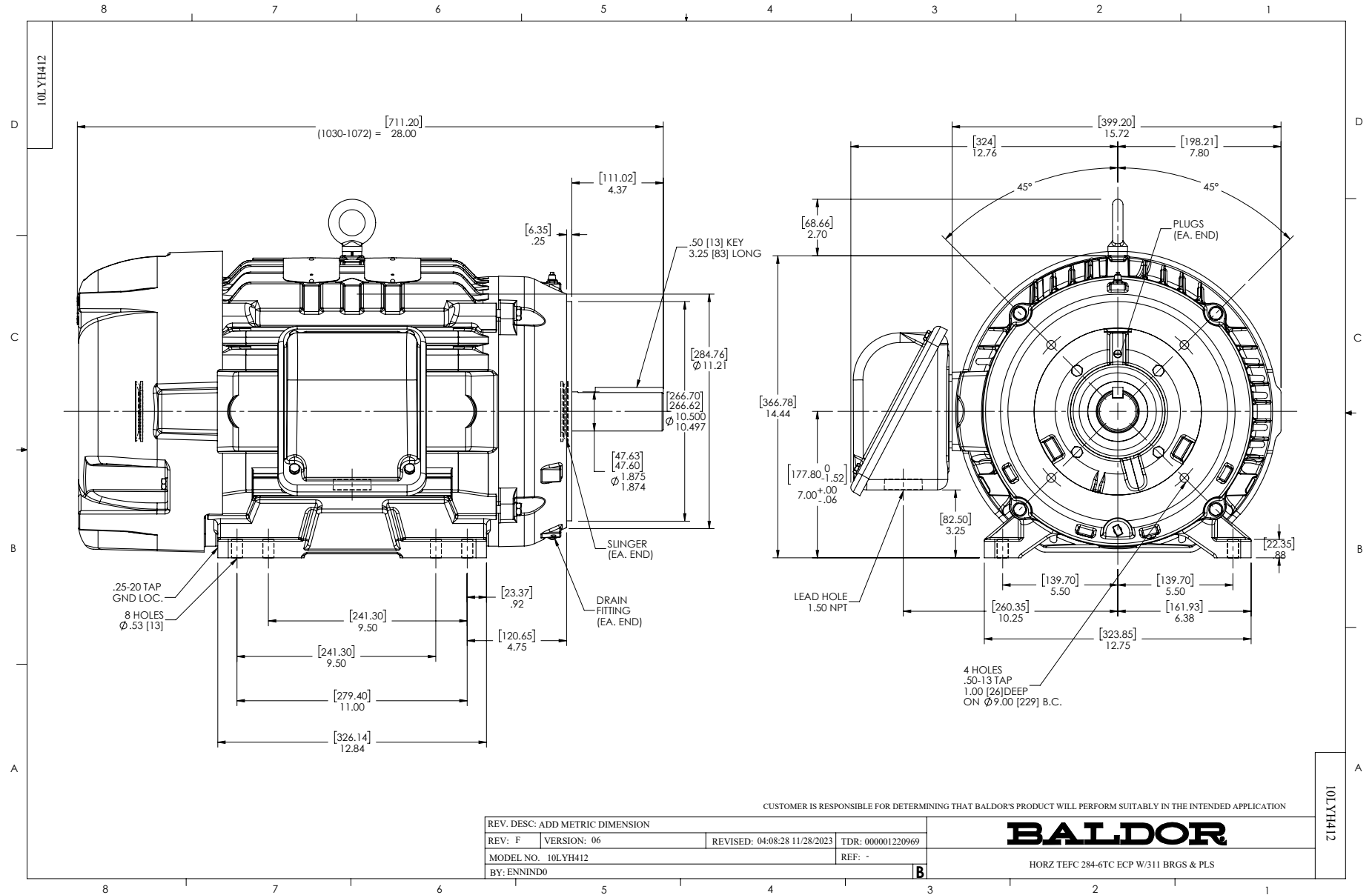
Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1770 RPM 460 V 1060M

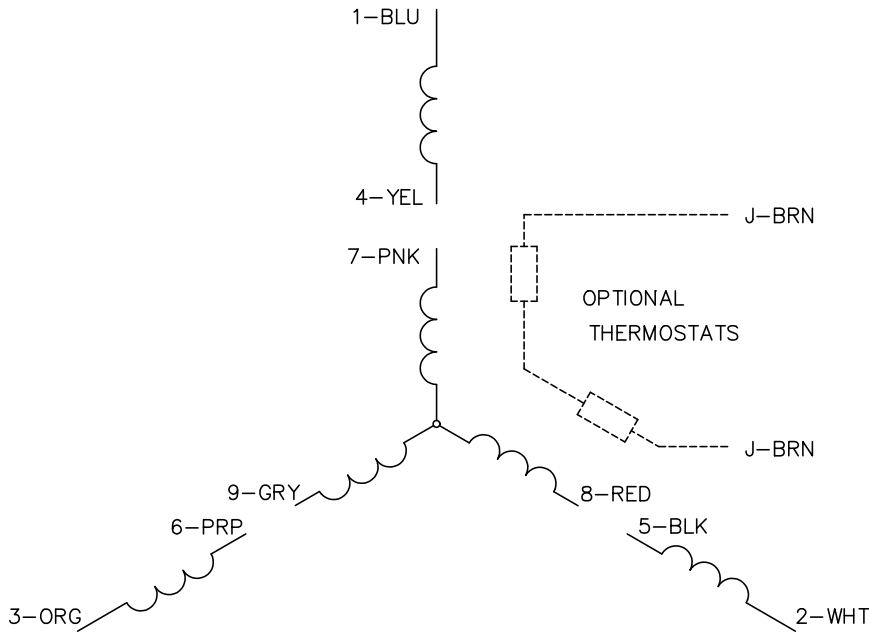
TORQUES (LB-FT): PO=267 PU=116 LR=142 LRA=215



8/10/2024 ACPERF, record # 59573



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