



Customer information packet

CEBM3710T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3738M, TEFC

Class - None

Division - Not Applicable

Specifications

| | |
|--------------------------------|---|
| Enclosure | TEFC |
| Frame | 213TC |
| 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 | 7.500 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 | CURUSEEV NEMA PREMIUM |
| 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 | 19.000 A @ 230.0 V 20.000 A @ 208.0 V 9.500 A @ 460.0 V |
| Design Code | A |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 91.7 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Feedback Device | NO FEEDBACK |
| Front Shaft Indicator | None |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 9.5 a |

Part detail

| | |
|--------------|------------|
| Revision | C |
| Type | AC |
| Mech. spec. | 37H025 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 37WGL864 |
| Layout | 37LYH025 |
| Eff. date | 07-01-2024 |
| CD Diagram | CD0005 |
| Poles | 04 |
| Leads | 9#14 |
| Proprietary | False |
| Created date | 02-02-2021 |

| | |
|-------------------------------|---------------------|
| Insulation Class | F |
| Inverter Code | Inverter Ready |
| KVA Code | J |
| Lifting Lugs | No Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 3738M |
| Mounting Arrangement | F1 |
| Number of Poles | 4 |
| Overall Length | 27.95 IN |
| Power Factor | 80 |
| Product Family | General Purpose |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | C-Face |
| Pulley Shaft Indicator | Standard |
| Rodent Screen | None |
| RoHS Status | ROHS COMPLIANT |
| Service Factor | 1.15 |
| Shaft Diameter | 1.375 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

| NP1259L | | | | | | | | | |
|--------------|--------------|------|-----|------|---|----|----|---|--|
| CAT.NO. | CEBM3710T | | | | | | | | |
| SPEC. | 37H025L864G1 | | | | | | | | |
| HP | 7.5 | | | | | | | | |
| VOLTS | 230/460 | | | | | | | | |
| AMP | 19/9.5 | | | | | | | | |
| RPM | 1770 | | | | | | | | |
| FRAME | 213TC | | HZ | 60 | | | PH | 3 | |
| SER.F. | 1.15 | CODE | J | DES | A | CL | F | | |
| NEMA-NOM-EFF | 91.7 | PF | 80 | | | | | | |
| RATING | 40C AMB-CONT | | | | | | | | |
| CC | 010A | | | | | | | | |
| DE | 6307 | | ODE | 6306 | | | | | |
| ENCL | TEFC | SN | | | | | | | |
| | | | | | | | | | |

AC Induction Motor Performance Data

Record # 85467

Preliminary Data Sheet

| Winding: 37WGL864-R001 | | | Type: 3738M | | Enclosure: TEFC | | |
|------------------------|----|--------------|--------------|--|-----------------------|----------------|--------|
| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | | | |
| Rated Output (HP) | | 7.5 | | Full Load Torque | | 22.2 LB-FT | |
| Volts | | 230/460 | | Start Configuration | | direct on line | |
| Full Load Amps | | 19.0/9.5 | | Breakdown Torque | | 69.8 LB-FT | |
| R.P.M. | | 1770 | | Pull-up Torque | | 31.5 LB-FT | |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | | 41 LB-FT | |
| NEMA Design Code | | A | KVA Code | J | Starting Current | | 70.7 A |
| Service Factor (S.F.) | | 1.15 | | No-load Current | | 4.32 A | |
| NEMA Nom. Eff. | | 91.7 | Power Factor | 80 | Line-line Res. @ 25°C | | 1.48 Ω |
| Rating - Duty | | 40C AMB-CONT | | Temp. Rise @ Rated Load | | 64°C | |
| S.F. Amps | | 21.4/10.7 | | Temp. Rise @ S.F. Load | | 84°C | |
| | | | | Locked-rotor Power Factor | | 41.9 | |
| | | | | Rotor inertia | | 0.934 lb-ft² | |

Load Characteristics 460 V, 60 Hz, 7.5 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor | 42 | 64 | 75 | 80 | 83 | 84 | 83 |
| Efficiency | 87.1 | 91.4 | 92 | 91.7 | 90.7 | 89.6 | 90.7 |
| Speed | 1793 | 1786 | 1778 | 1770 | 1760 | 1750 | 1761 |
| Line amperes | 4.83 | 6.03 | 7.64 | 9.5 | 11.6 | 13.9 | 10.7 |

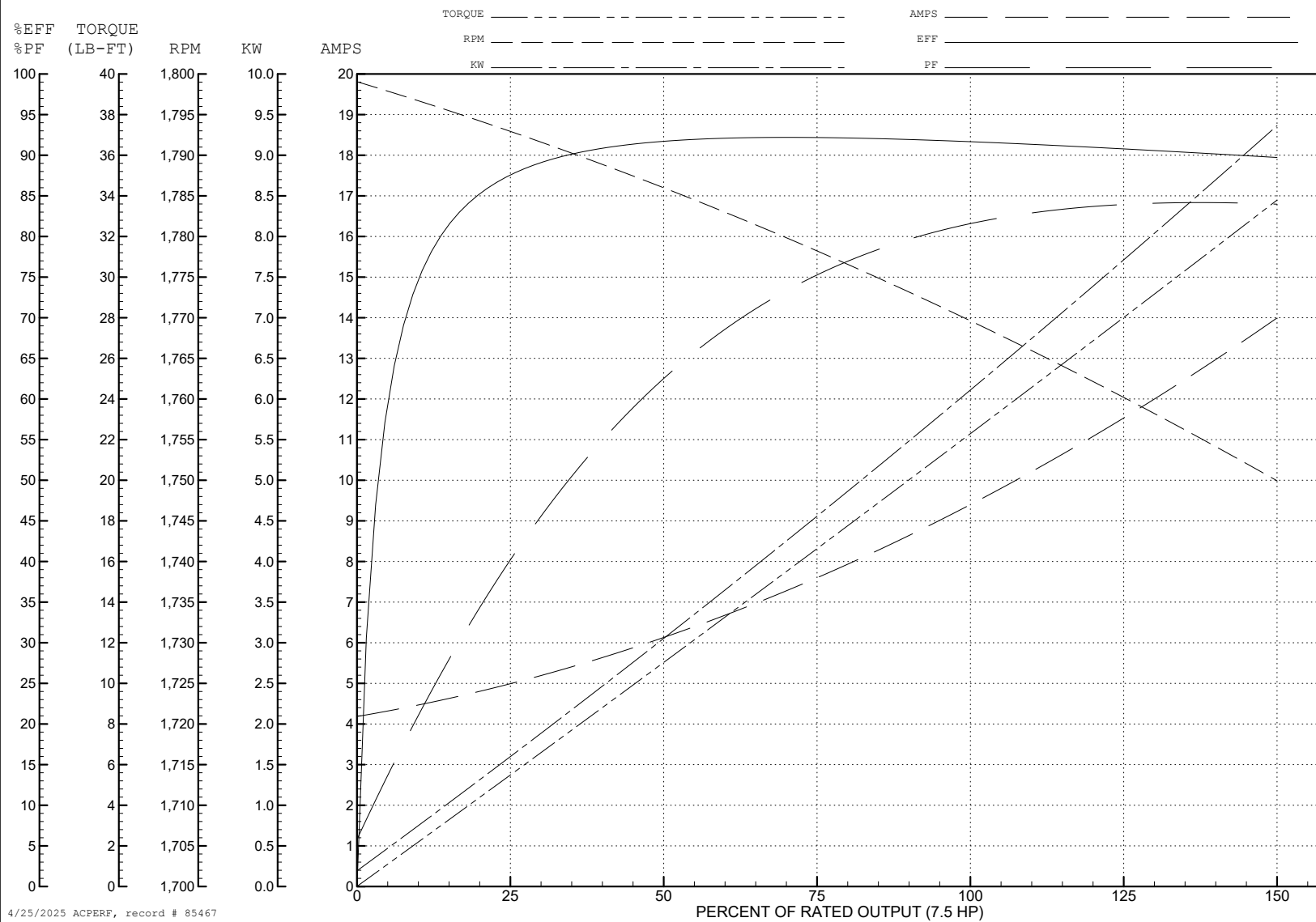
ABB Motors and Mechanical Inc.

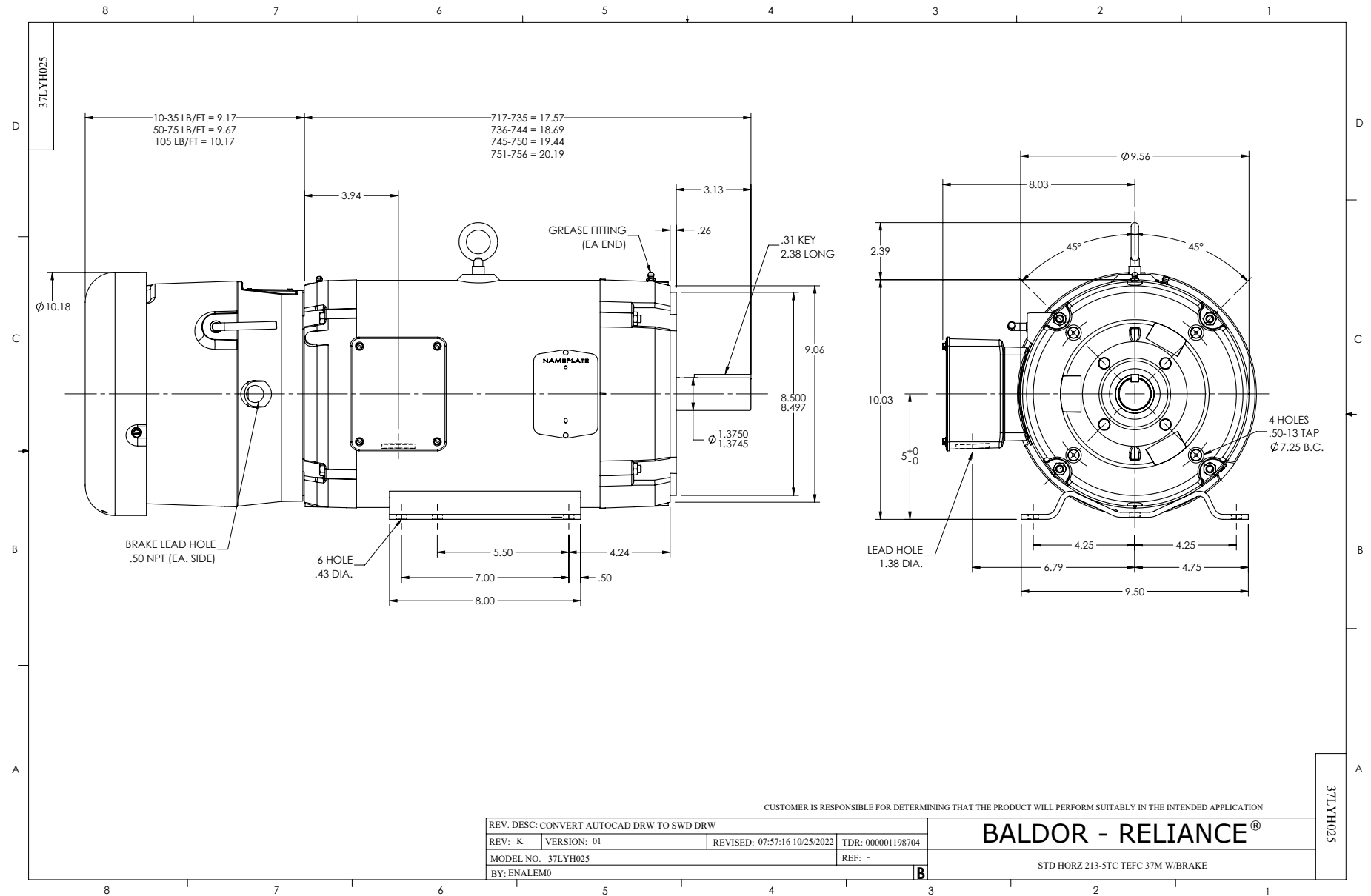
WINDING # 37WGL864

Typical performance - not guaranteed values.

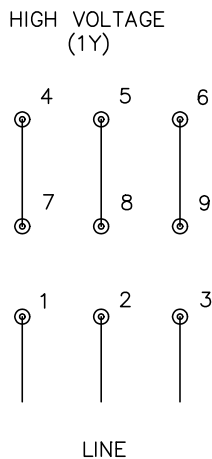
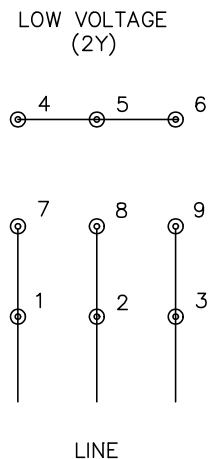
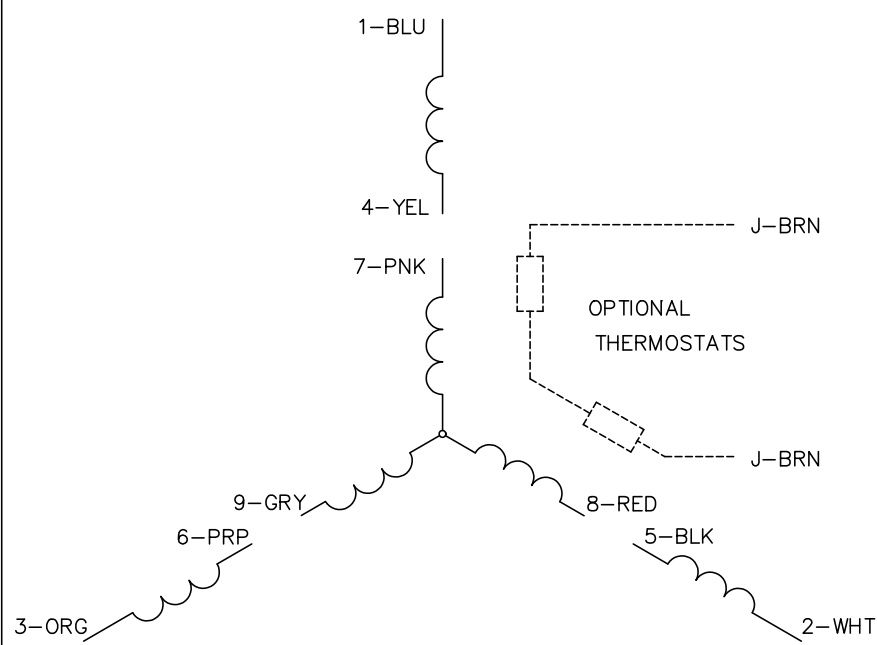
7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3738M

TORQUES (LB-FT): PO=69.8 PU=31.5 LR=41 LRA=70.7





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

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