



---

# Customer information packet

## CEM2333T-G

15HP, 1765RPM, 3PH, 60HZ, 254TC, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | 254TC                                                          |
| Frame Material                 | Iron                                                           |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Three Phase                                                    |
| Output @ Frequency             | 15.000 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<br>CSA EEV<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              | 38.000 A @ 208.0 V<br>36.200 A @ 230.0 V<br>18.100 A @ 460.0 V |
| Design Code                    | A                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 92.4 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Heater Indicator               | No Heater                                                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | M          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 09WGZ910   |
| Layout       | 09LYL284   |
| Eff. date    | 03-19-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#12       |
| Proprietary  | False      |
| Created date | 08-21-2019 |

|                             |                       |
|-----------------------------|-----------------------|
| High Voltage Full Load Amps | 18.1 a                |
| Insulation Class            | H                     |
| Inverter Code               | Inverter Ready        |
| IP Rating                   | NONE                  |
| KVA Code                    | H                     |
| Lifting Lugs                | Standard Lifting Lugs |
| Locked Bearing Indicator    | Locked Bearing        |
| Motor Lead Termination      | Flying Leads          |
| Motor Standards             | NEMA                  |
| Motor Type                  | 0944M                 |
| Mounting Arrangement        | F1                    |
| Number of Poles             | 4                     |
| Overall Length              | 23.78 IN              |
| Power Factor                | 83                    |
| Product Family              | General Purpose       |
| Pulley Face Code            | C-Face                |
| Rodent Screen               | None                  |
| Service Factor              | 1.15                  |
| Shaft Diameter              | 1.625 IN              |
| Shaft Ground Indicator      | Shaft Grounding       |
| Shaft Rotation              | Reversible            |
| Speed                       | 1765 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

| NP3441LUA                 |                               |      |     |      |   |       |       |  |  |
|---------------------------|-------------------------------|------|-----|------|---|-------|-------|--|--|
| CAT.NO.                   | CEM2333T-G                    |      |     |      |   |       |       |  |  |
| SPEC                      | 09-0000-1698                  |      |     |      |   |       |       |  |  |
| HP                        | 15                            |      |     |      |   |       |       |  |  |
| VOLTS                     | 230/460                       |      |     |      |   |       |       |  |  |
| AMPS                      | 36.2/18.1                     |      |     |      |   |       |       |  |  |
| RPM                       | 1765                          |      |     |      |   |       |       |  |  |
| FRAME                     | 254TC                         |      | HZ  | 60   |   | PH    | 3     |  |  |
| SF                        | 1.15                          | CODE | H   | DES  | A | CLASS | H     |  |  |
| NEMA NOM. EFF             | 92.4                          | PF   | 83  |      |   |       |       |  |  |
| RATING                    | 40C AMB-CONT                  |      |     |      |   |       |       |  |  |
| CC                        | 010A                          |      |     |      |   |       |       |  |  |
| ENCL                      | TEFC                          | SER  |     |      |   |       |       |  |  |
| DE                        | 6309                          |      | ODE | 6208 |   |       |       |  |  |
| VPWM INVERTER READY       |                               |      |     |      |   |       |       |  |  |
| CT6-60H(10:1)VT3-60H(20:1 |                               |      |     |      |   |       |       |  |  |
|                           | 50HZ 15HP 190/380V 43.2/21.6A |      |     |      |   |       | SF1.0 |  |  |

**AC Induction Motor Performance Data**

Record # 40350

Typical performance - not guaranteed values

| Winding: 09WGZ910-R004 |    |           | Type: 0942M                              |                     | Enclosure: TEFC           |            |             |
|------------------------|----|-----------|------------------------------------------|---------------------|---------------------------|------------|-------------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |             |
| Rated Output (HP)      |    | 15        | Full Load Torque                         |                     | 44.6 LB-FT                |            |             |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line            |            |             |
| Full Load Amps         |    | 36.2/18.1 | Breakdown Torque                         |                     | 152 LB-FT                 |            |             |
| R.P.M.                 |    | 1765      | Pull-up Torque                           |                     | 69.5 LB-FT                |            |             |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                           | 83.4 LB-FT |             |
| NEMA Design Code       |    | A         | KVA Code                                 | H                   | Starting Current          |            | 125 A       |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 7.12 A                    |            |             |
| NEMA Nom. Eff.         |    | 92.4      | Power Factor                             | 83                  | Line-line Res. @ 25°C     |            | 0.60351 Ω   |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 58°C        |
| S.F. Amps              |    |           |                                          |                     | Temp. Rise @ S.F. Load    |            | 71°C        |
|                        |    |           |                                          |                     | Locked-rotor Power Factor |            | 33          |
|                        |    |           |                                          |                     | Rotor inertia             |            | 1.92 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125  | 150    | S.F. |
|-----------------|--------|--------|--------|--------|------|--------|------|
| Power Factor    | 49     | 71     | 79     | 83     | 87   | 87     | 86   |
| Efficiency      | 88.1   | 92.1   | 92.6   | 92.4   | 91.7 | 90.6   | 92   |
| Speed           | 1790.9 | 1782.8 | 1774.4 | 1765.5 | 1755 | 1744.1 | 1759 |
| Line amperes    | 8.24   | 10.8   | 14.4   | 18.1   | 22.2 | 26.8   | 20.6 |

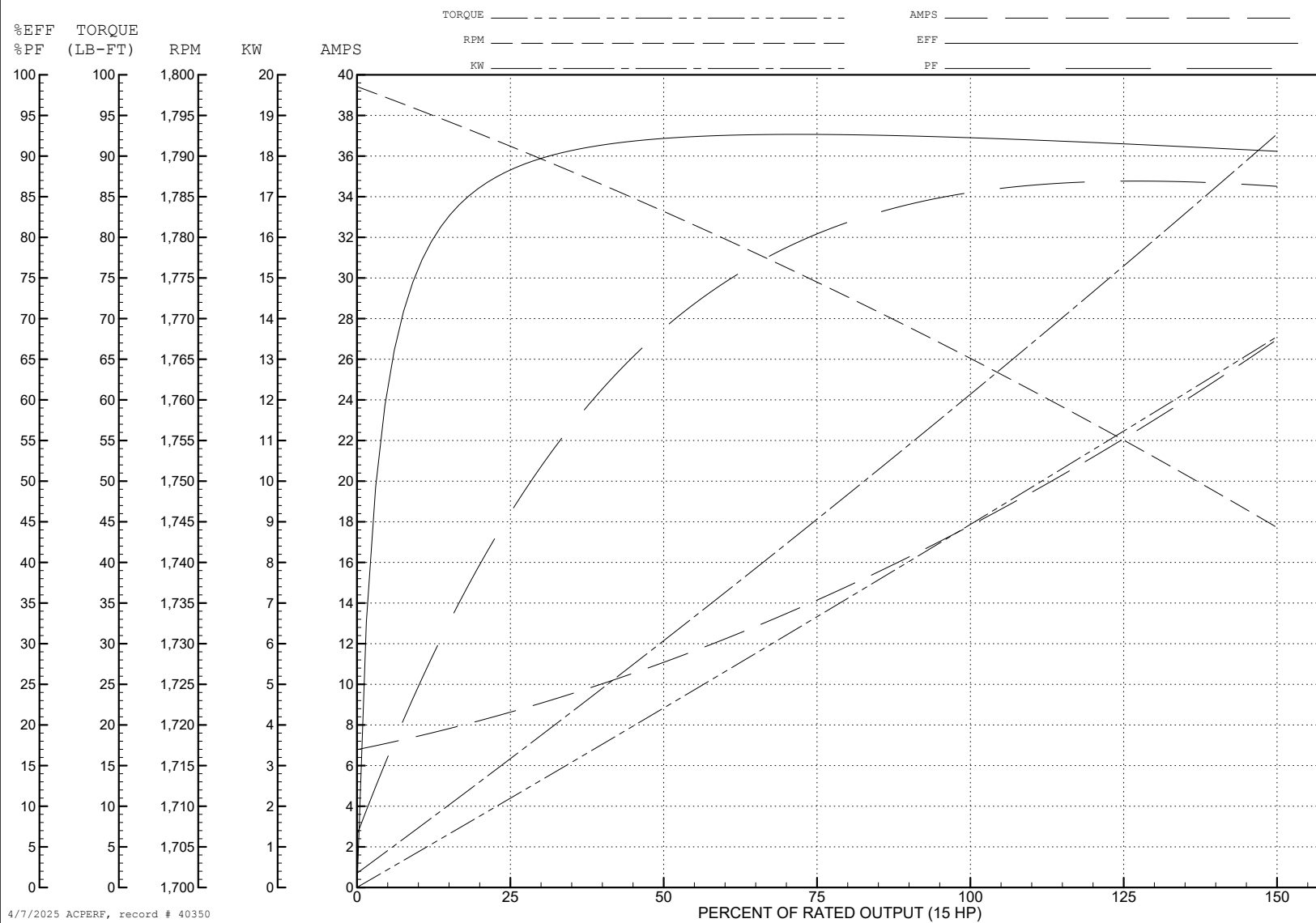
ABB Motors and Mechanical Inc.

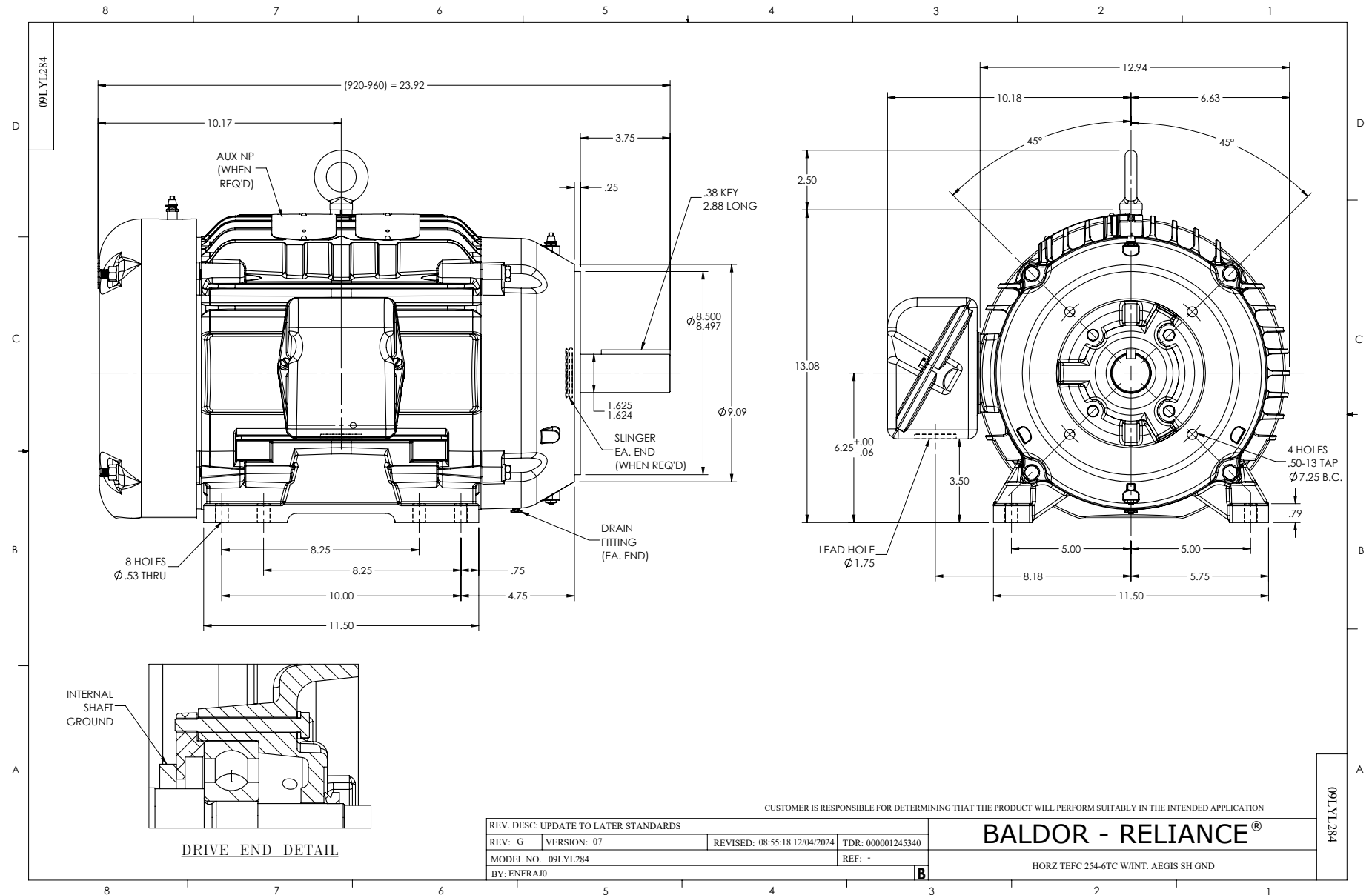
WINDING # 09WGZ910

Typical performance - not guaranteed values.

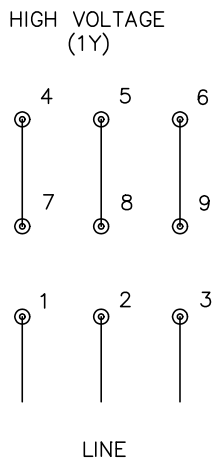
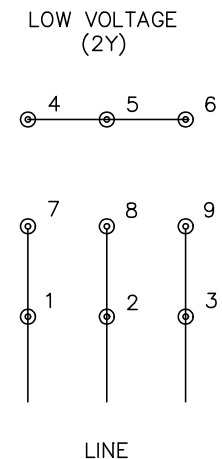
15 HP 3 PH 60 HZ 1765 RPM 460 V 0942M

TORQUES (LB-FT): PO=152 PU=69.5 LR=83.4 LRA=125





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

CD0005