



---

# Customer information packet

## ECTM3664T-5G

2HP, 1165RPM, 3PH, 60HZ, 184T, 0642M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Enclosure                      | TEFC                                          |
| Frame                          | 184T                                          |
| 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             | 2.000 HP @ 60 HZ                              |
| Phase                          | 3                                             |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                              |
| Voltage @ Frequency            | 575.0 V @ 60 HZ                               |
| Agency Approvals               | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR |
| Ambient Temperature            | 40 °C                                         |
| Auxiliary Box                  | NO AUXILLARY BOX                              |
| Auxiliary Box Lead Termination | None                                          |
| Base Indicator                 | Rigid                                         |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                       |
| Blower                         | None                                          |
| Current @ Voltage              | 2.500 A @ 575.0 V                             |
| Design Code                    | B                                             |
| Drip Cover                     | No Drip Cover                                 |
| Duty Rating                    | CONT                                          |
| Efficiency @ 100% Load         | 88.5 %                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                     |
| Feedback Device                | NO FEEDBACK                                   |
| Front Shaft Indicator          | None                                          |
| Heater Indicator               | Heater Included, 115 V                        |
| High Voltage Full Load Amps    | 2.5 a                                         |
| Insulation Class               | F                                             |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  | 06J518     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 06WGX236   |
| Layout       | 06LYJ518   |
| Eff. date    | 06-08-2023 |
| CD Diagram   | CD0006     |
| Poles        | 06         |
| Leads        | 3#16       |
| Proprietary  | False      |
| Created date | 04-20-2022 |

|                               |                              |
|-------------------------------|------------------------------|
| Inverter Code                 | Inverter Ready               |
| KVA Code                      | K                            |
| Lifting Lugs                  | Standard Lifting Lugs        |
| Locked Bearing Indicator      | Locked Bearing               |
| Motor Lead Quantity/Wire Size | 3 @ 16 AWG                   |
| Motor Lead Termination        | Flying Leads                 |
| Motor Standards               | NEMA                         |
| Motor Type                    | 0642M                        |
| Mounting Arrangement          | F1                           |
| Number of Poles               | 6                            |
| Overall Length                | 15.93 IN                     |
| Power Factor                  | 68                           |
| Product Family                | Chemical Processing (Not DC) |
| Pulley End Bearing Type       | Sealed Bearing               |
| Pulley Face Code              | Standard                     |
| Pulley Shaft Indicator        | Tapped & Key                 |
| Rodent Screen                 | None                         |
| RoHS Status                   | ROHS COMPLIANT               |
| Service Factor                | 1.15                         |
| Shaft Diameter                | 1.125 IN                     |
| Shaft Ground Indicator        | Shaft Grounding              |
| Shaft Rotation                | Reversible                   |
| Shaft Slinger Indicator       | Shaft Slinger                |
| Speed                         | 1165 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

| NP1260       |                  |  |      |      |     |    |  |    |   |
|--------------|------------------|--|------|------|-----|----|--|----|---|
| CAT.NO.      | ECTM3664T-5G     |  |      |      |     |    |  |    |   |
| SPEC.        | 06J518X236G1     |  |      |      |     |    |  |    |   |
| HP           | 2                |  |      |      |     |    |  |    |   |
| VOLTS        | 575              |  |      |      |     |    |  |    |   |
| AMP          | 2.5              |  |      |      |     |    |  |    |   |
| RPM          | 1165             |  |      |      |     |    |  |    |   |
| FRAME        | 184T             |  | HZ   | 60   |     | PH |  | 3  |   |
| SER.F.       | 1.15             |  | CODE | K    | DES | B  |  | CL | F |
| NEMA-NOM-EFF | 88.5             |  | PF   | 68   |     |    |  |    |   |
| RATING       | 40C AMB-CONT     |  |      |      |     |    |  |    |   |
| CC           |                  |  |      |      |     |    |  |    |   |
| DE           | 6206             |  | ODE  | 6205 |     |    |  |    |   |
| ENCL         | TEFC             |  | SN   |      |     |    |  |    |   |
|              | INV DUTY 20:1 VT |  |      |      |     |    |  |    |   |

**AC Induction Motor Performance Data**

Record # 32952

Typical performance - not guaranteed values

| Winding: 06WGX236-R001 |    |              | Type: 0642M                           |                           | Enclosure: TEFC       |              |        |
|------------------------|----|--------------|---------------------------------------|---------------------------|-----------------------|--------------|--------|
| Nameplate Data         |    |              | 575 V, 60 Hz:<br>Single Voltage Motor |                           |                       |              |        |
| Rated Output (HP)      |    | 2            | Full Load Torque                      |                           | 9 LB-FT               |              |        |
| Volts                  |    | 575          | Start Configuration                   |                           | direct on line        |              |        |
| Full Load Amps         |    | 2.5          | Breakdown Torque                      |                           | 31.3 LB-FT            |              |        |
| R.P.M.                 |    | 1165         | Pull-up Torque                        |                           | 16.7 LB-FT            |              |        |
| Hz                     | 60 | Phase        | 3                                     | Locked-rotor Torque       |                       | 19.9 LB-FT   |        |
| NEMA Design Code       |    | B            | KVA Code                              | K                         | Starting Current      |              | 16.7 A |
| Service Factor (S.F.)  |    | 1.15         | No-load Current                       |                           | 1.47 A                |              |        |
| NEMA Nom. Eff.         |    | 88.5         | Power Factor                          | 68                        | Line-line Res. @ 25°C |              | 8.09 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                       | Temp. Rise @ Rated Load   |                       | 27°C         |        |
| S.F. Amps              |    |              |                                       | Temp. Rise @ S.F. Load    |                       | 32°C         |        |
|                        |    |              |                                       | Locked-rotor Power Factor |                       | 29           |        |
|                        |    |              |                                       | Rotor inertia             |                       | 0.395 LB-FT2 |        |

**Load Characteristics 575 V, 60 Hz, 2 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 30   | 48   | 60   | 68   | 73   | 75   | 71   |
| Efficiency      | 80.5 | 87.2 | 88.5 | 88.7 | 87.7 | 86.6 | 88.1 |
| Speed           | 1193 | 1186 | 1178 | 1170 | 1161 | 1150 | 1165 |
| Line amperes    | 1.57 | 1.8  | 2.13 | 2.5  | 2.94 | 3.45 | 2.76 |

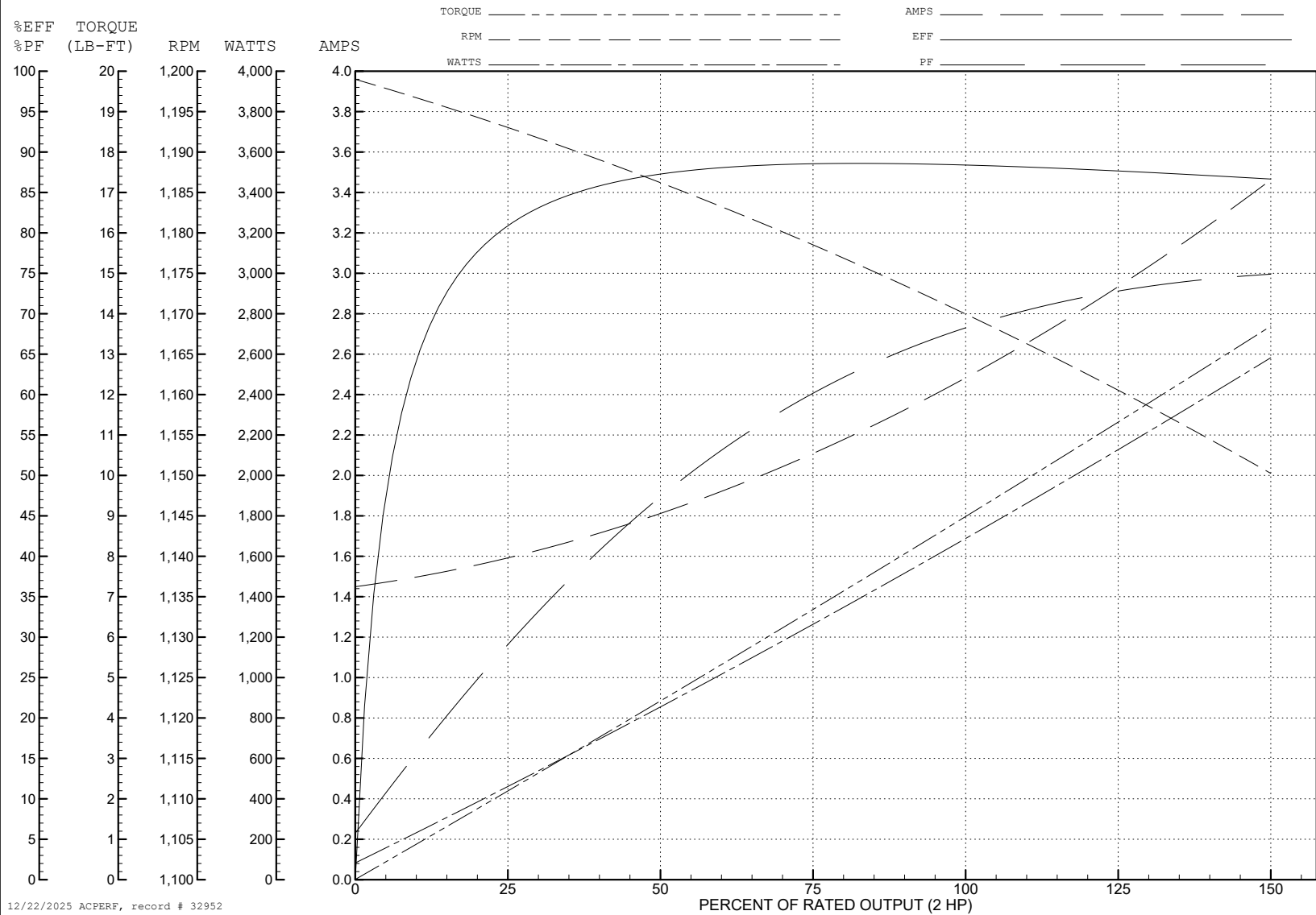
ABB Motors and Mechanical Inc.

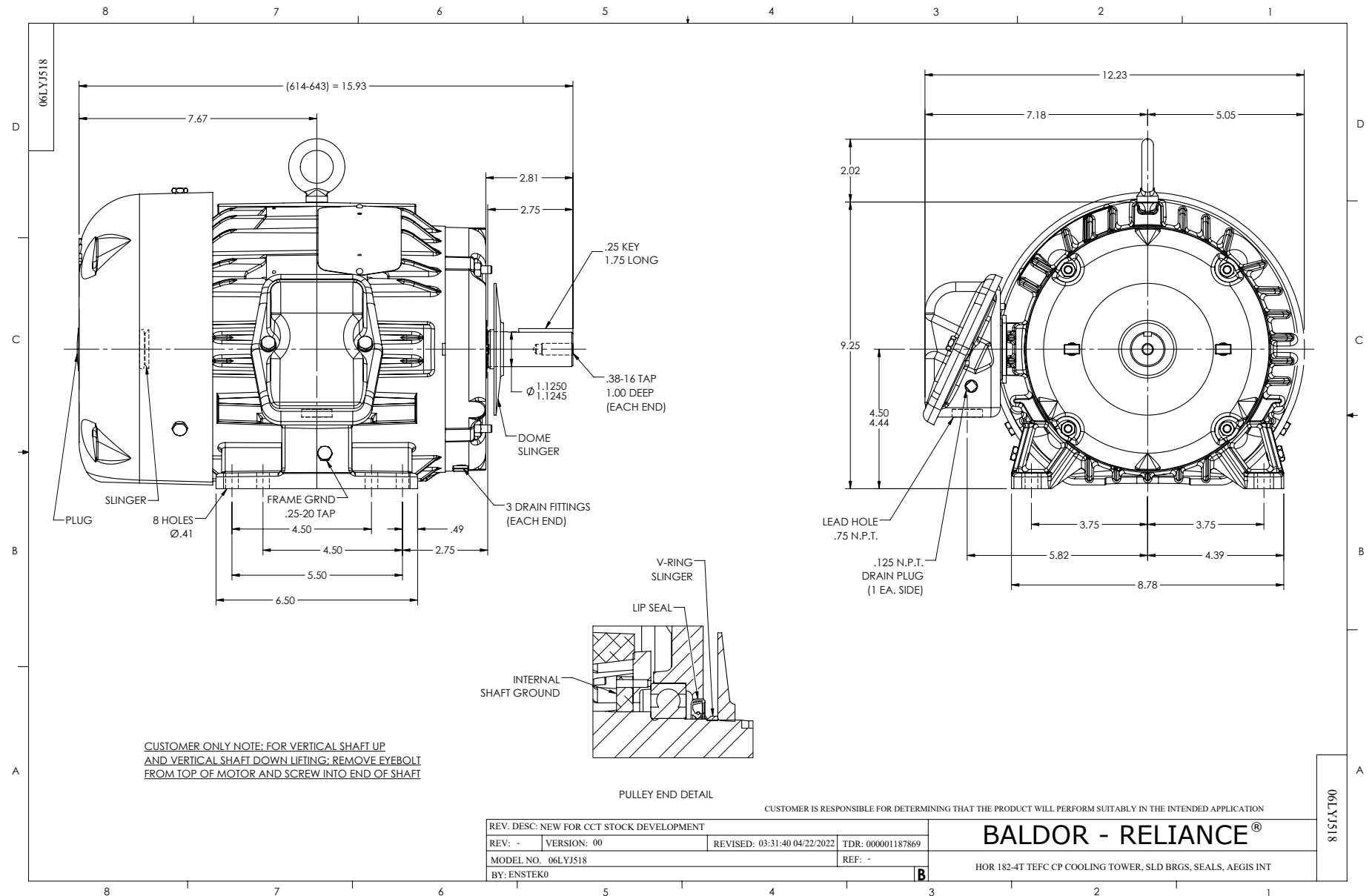
WINDING # 06WGX236

Typical performance - not guaranteed values.

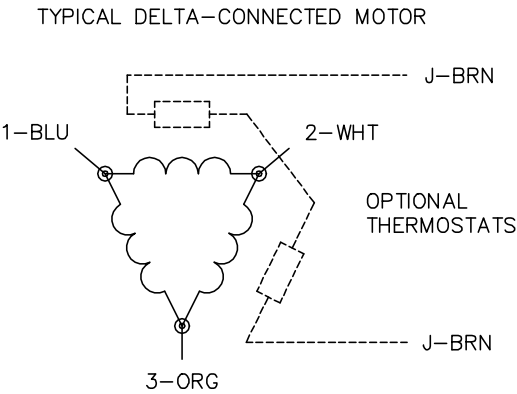
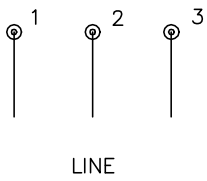
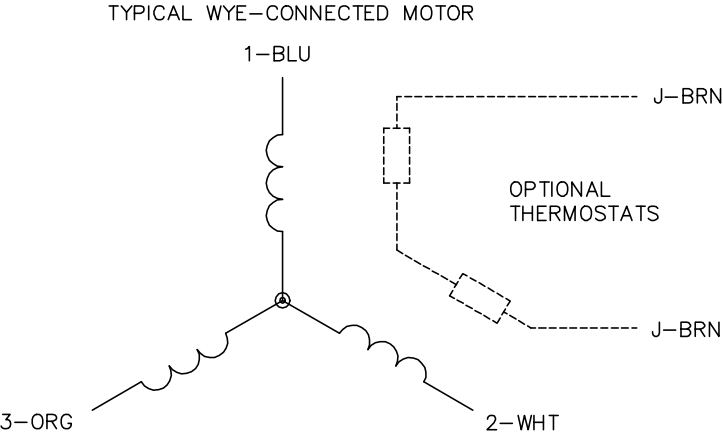
2 HP 3 PH 60 HZ 1165 RPM 575 V 0642M

TORQUES (LB-FT): PO=31.3 PU=16.7 LR=19.9 LRA=16.7





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

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

SH 1 of 1