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# Customer information packet

## EM3663T-BG

5HP, 3480RPM, 3PH, 60HZ, 184T, 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             | 5.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                             |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                              |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                            |
| Agency Approvals               | CSA<br>CSA EEV<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              | 5.800 A @ 460.0 V<br>12.400 A @ 208.0 V<br>11.600 A @ 230.0 V |
| Design Code                    | A                                                             |
| Drip Cover                     | No Drip Cover                                                 |
| Duty Rating                    | CONT                                                          |
| Efficiency @ 100% Load         | 88.5 %                                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                                     |
| Feedback Device                | NO FEEDBACK                                                   |
| Heater Indicator               | No Heater                                                     |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 06WGX782   |
| Layout       | 06LYK800   |
| Eff. date    | 04-29-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 04-10-2019 |

|                             |                       |
|-----------------------------|-----------------------|
| High Voltage Full Load Amps | 5.8 a                 |
| Insulation Class            | H                     |
| Inverter Code               | Inverter Ready        |
| IP Rating                   | NONE                  |
| KVA Code                    | L                     |
| Lifting Lugs                | Standard Lifting Lugs |
| Locked Bearing Indicator    | Locked Bearing        |
| Motor Lead Termination      | Flying Leads          |
| Motor Standards             | NEMA                  |
| Motor Type                  | 0628M                 |
| Mounting Arrangement        | F1                    |
| Number of Poles             | 2                     |
| Overall Length              | 15.24 IN              |
| Power Factor                | 90                    |
| Product Family              | General Purpose       |
| Pulley Face Code            | Standard              |
| Rodent Screen               | None                  |
| Service Factor              | 1.15                  |
| Shaft Diameter              | 1.125 IN              |
| Shaft Ground Indicator      | Shaft Grounding       |
| Shaft Rotation              | Reversible            |
| Speed                       | 3480 rpm              |
| Speed Code                  | Single Speed          |
| Starting Method             | Direct on line        |
| Thermal Device - Winding    | None                  |
| Vibration Sensor Indicator  | No Vibration Sensor   |
| Winding Thermal 1           | None                  |
| Winding Thermal 2           | None                  |

## Nameplate

## NP3441LUA

|                           |                         |  |      |      |     |   |       |   |       |  |
|---------------------------|-------------------------|--|------|------|-----|---|-------|---|-------|--|
| CAT.NO.                   | EM3663T-BG              |  |      |      |     |   |       |   |       |  |
| SPEC                      | 06-0000-0086            |  |      |      |     |   |       |   |       |  |
| HP                        | 5                       |  |      |      |     |   |       |   |       |  |
| VOLTS                     | 230/460                 |  |      |      |     |   |       |   |       |  |
| AMPS                      | 11.6/5.8                |  |      |      |     |   |       |   |       |  |
| RPM                       | 3480                    |  |      |      |     |   |       |   |       |  |
| FRAME                     | 184T                    |  | HZ   | 60   |     |   | PH    | 3 |       |  |
| SF                        | 1.15                    |  | CODE | L    | DES | A | CLASS | H |       |  |
| NEMA NOM. EFF             | 88.5                    |  | PF   | 90   |     |   |       |   |       |  |
| RATING                    | 40C AMB-CONT            |  |      |      |     |   |       |   |       |  |
| CC                        | 010A                    |  |      |      |     |   |       |   |       |  |
| ENCL                      | TEFC                    |  | SER  |      |     |   |       |   |       |  |
| DE                        | 6206                    |  | ODE  | 6205 |     |   |       |   |       |  |
| VPWM INVERTER READY       |                         |  |      |      |     |   |       |   |       |  |
| CT6-60H(10:1)VT3-60H(20:1 |                         |  |      |      |     |   |       |   |       |  |
|                           | 50HZ 5HP 190/380V 14/7A |  |      |      |     |   |       |   | SF1.0 |  |

**AC Induction Motor Performance Data**

Record # 75467

Typical performance - not guaranteed values

| Winding: 06WGX782-R003 |    |          | Type: 0628M                              |                     | Enclosure: TEFC           |            |              |
|------------------------|----|----------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |    |          | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (HP)      |    | 5        | Full Load Torque                         |                     | 7.55 LB-FT                |            |              |
| Volts                  |    | 230/460  | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |    | 11.6/5.8 | Breakdown Torque                         |                     | 35.8 LB-FT                |            |              |
| R.P.M.                 |    | 3480     | Pull-up Torque                           |                     | 23.1 LB-FT                |            |              |
| Hz                     | 60 | Phase    | 3                                        | Locked-rotor Torque |                           | 27.7 LB-FT |              |
| NEMA Design Code       |    | A        | KVA Code                                 | L                   | Starting Current          |            | 59.9 A       |
| Service Factor (S.F.)  |    | 1.15     | No-load Current                          |                     | 2.05 A                    |            |              |
| NEMA Nom. Eff.         |    | 88.5     | Power Factor                             | 90                  | Line-line Res. @ 25°C     |            | 2.85 Ω       |
| Rating - Duty          |    | 40C      | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 57°C         |
| S.F. Amps              |    |          |                                          |                     | Temp. Rise @ S.F. Load    |            | 70°C         |
|                        |    |          |                                          |                     | Locked-rotor Power Factor |            | 51.3         |
|                        |    |          |                                          |                     | Rotor inertia             |            | 0.125 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 56   | 77   | 86   | 91   | 93   | 94   | 92   |
| Efficiency      | 85.6 | 89.7 | 90.1 | 89.2 | 87.9 | 85.9 | 88.4 |
| Speed           | 3574 | 3547 | 3517 | 3485 | 3452 | 3413 | 3465 |
| Line amperes    | 2.45 | 3.35 | 4.53 | 5.8  | 7.17 | 8.69 | 6.62 |

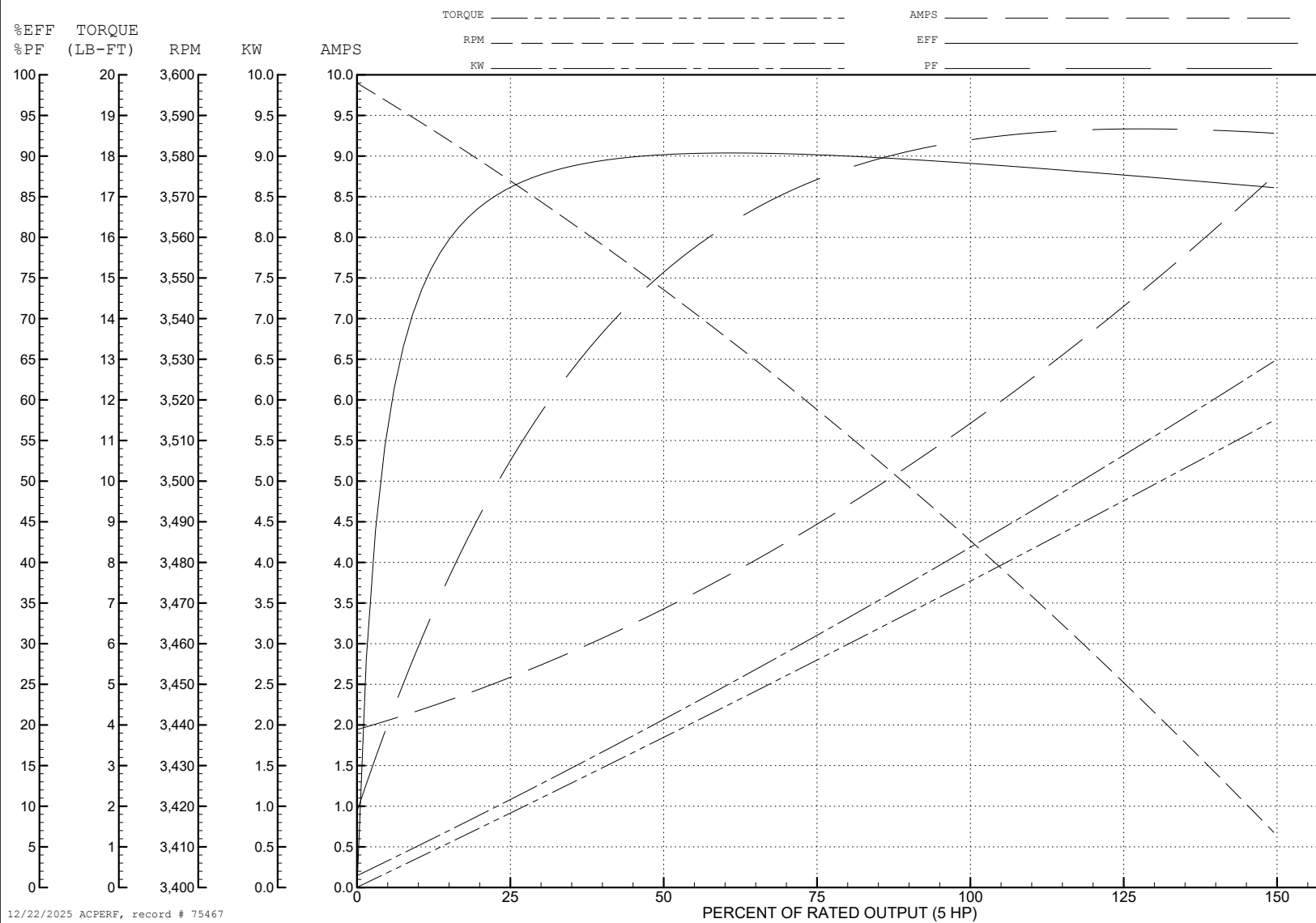
ABB Motors and Mechanical Inc.

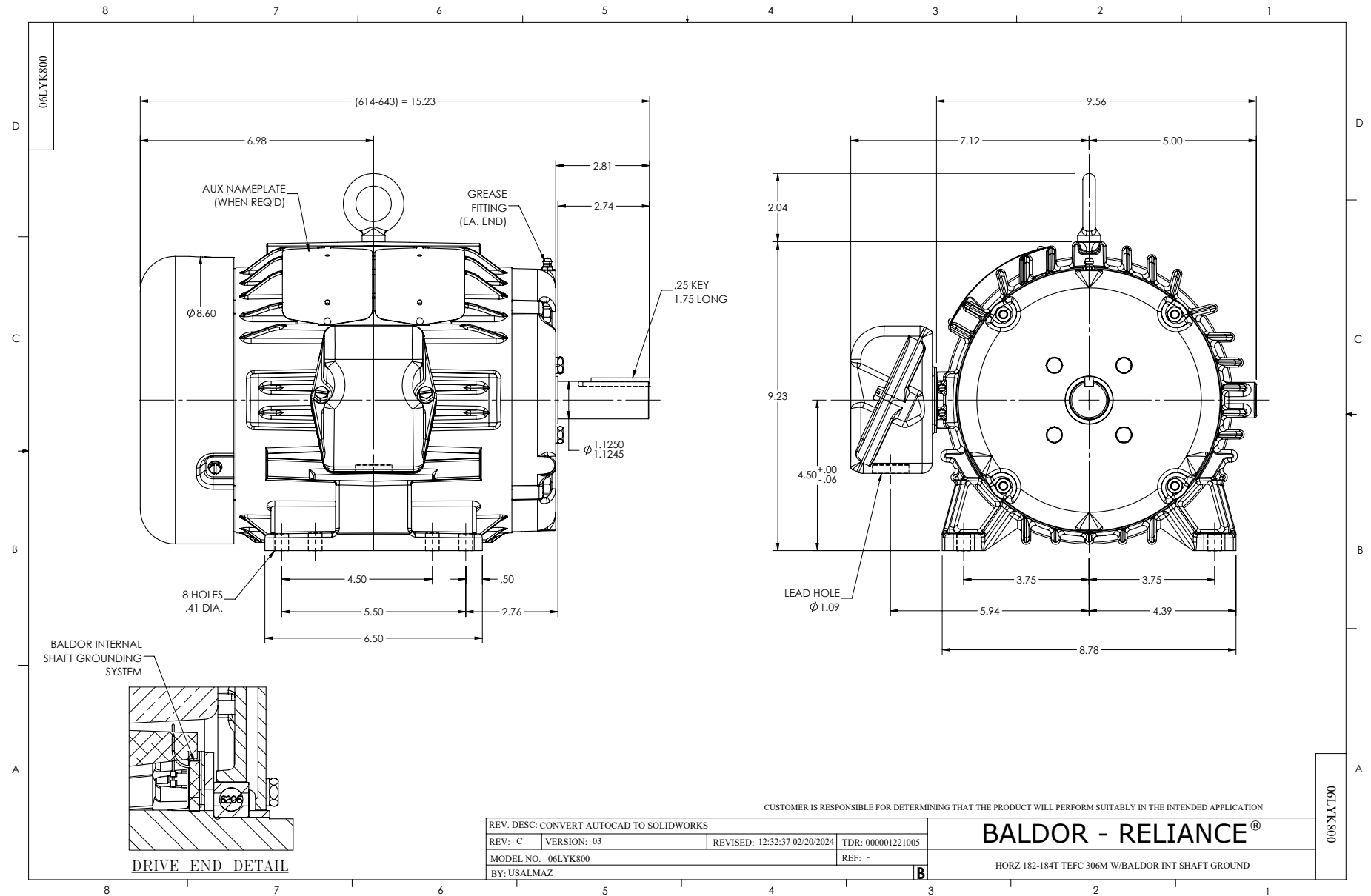
WINDING # 06WGX782

Typical performance - not guaranteed values.

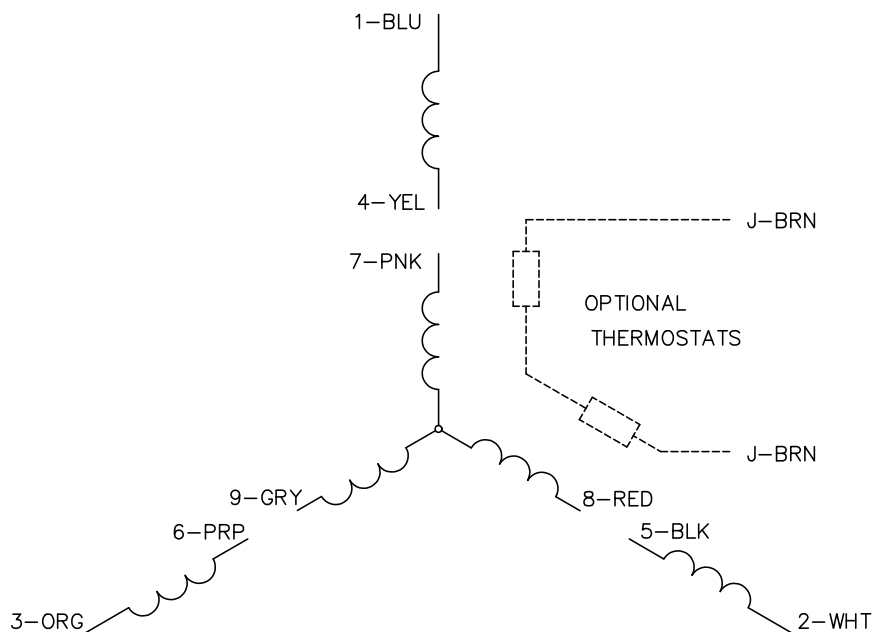
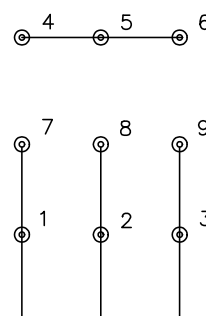
5 HP 3 PH 60 HZ 3480 RPM 460 V 0628M

TORQUES (LB-FT): PO=35.8 PU=23.1 LR=27.7 LRA=59.9

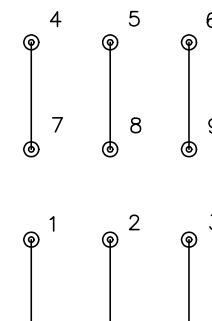




CD0005

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.

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

CD0005