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# Customer information packet

## EM3663T-G

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>208.0 V @ 60 HZ<br>230.0 V @ 60 HZ         |
| Agency Approvals               | NEMA PREMIUM<br>NEMA_PREMIUM<br>CURUSEEV                      |
| 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              | 11.600 A @ 230.0 V<br>12.400 A @ 208.0 V<br>5.800 A @ 460.0 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     | D          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 06WGX782   |
| Layout       | 06LYG729   |
| Eff. date    | 01-09-2025 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 04-09-2019 |

|                               |                       |
|-------------------------------|-----------------------|
| High Voltage Full Load Amps   | 5.8 a                 |
| Insulation Class              | H                     |
| Inverter Code                 | Not Inverter          |
| IP Rating                     | NONE                  |
| KVA Code                      | L                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 0628M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 2                     |
| Overall Length                | 15.23 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 - Bearing      | None                  |
| Thermal Device - Winding      | None                  |
| Vibration Sensor Indicator    | No Vibration Sensor   |
| Winding Thermal 1             | None                  |
| Winding Thermal 2             | None                  |

## Nameplate

## NP3441LUA

|                           |                         |  |      |  |      |     |    |   |       |  |   |
|---------------------------|-------------------------|--|------|--|------|-----|----|---|-------|--|---|
| CAT.NO.                   | EM3663T-G               |  |      |  |      |     |    |   |       |  |   |
| SPEC                      | 06-0000-0080            |  |      |  |      |     |    |   |       |  |   |
| HP                        | 5                       |  |      |  |      |     |    |   |       |  |   |
| VOLTS                     | 208-230/460             |  |      |  |      |     |    |   |       |  |   |
| AMPS                      | 12.4-11.6/5.8           |  |      |  |      |     |    |   |       |  |   |
| 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 |  |      |  |      |     |    |   |       |  |   |
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**AC Induction Motor Performance Data**

Record # 108383

Typical performance - not guaranteed values

| Winding: 06WGX782-R020 |    |               | 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                  |    | 208-230/460   | Start Configuration                      |                     | direct on line          |                       |        |          |
| Full Load Amps         |    | 12.4-11.6/5.8 | 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 |        | 2.7676 Ω |
| Rating - Duty          |    | 40C           | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                       | 57°C   |          |
| S.F. Amps              |    |               | Temp. Rise @ S.F. Load                   |                     | 71°C                    |                       |        |          |
|                        |    |               | Locked-rotor Power Factor                |                     | 51.5                    |                       |        |          |
|                        |    |               | 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     | 87     | 91     | 93     | 94     | 92   |
| Efficiency      | 85.8   | 89.9   | 90.1   | 89.3   | 87.9   | 86.2   | 88.5 |
| Speed           | 3573.6 | 3546.9 | 3516.7 | 3485.2 | 3451.8 | 3413.3 | 3465 |
| Line amperes    | 2.45   | 3.35   | 4.53   | 5.8    | 7.17   | 8.69   | 6.62 |

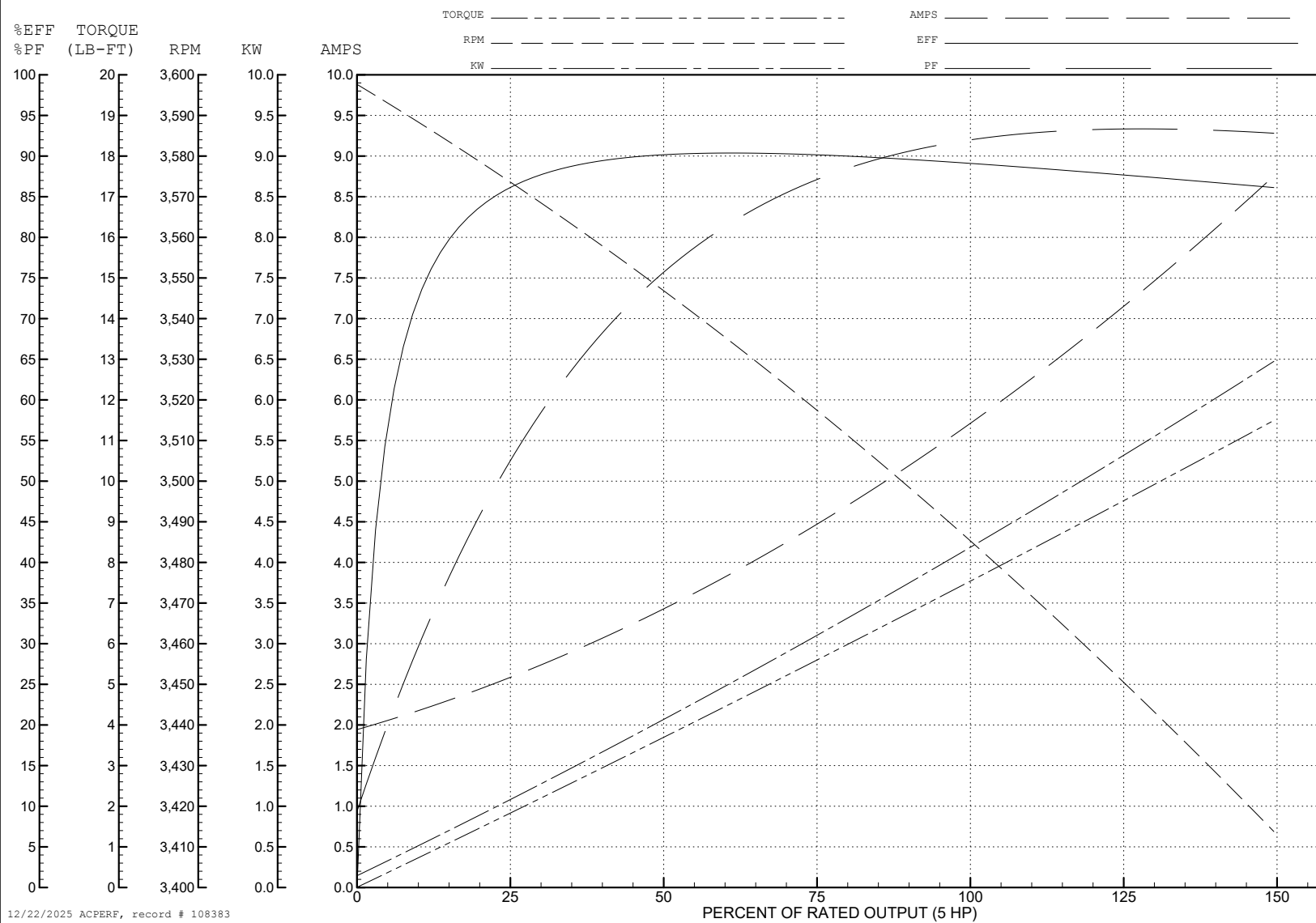
ABB Motors and Mechanical Inc.

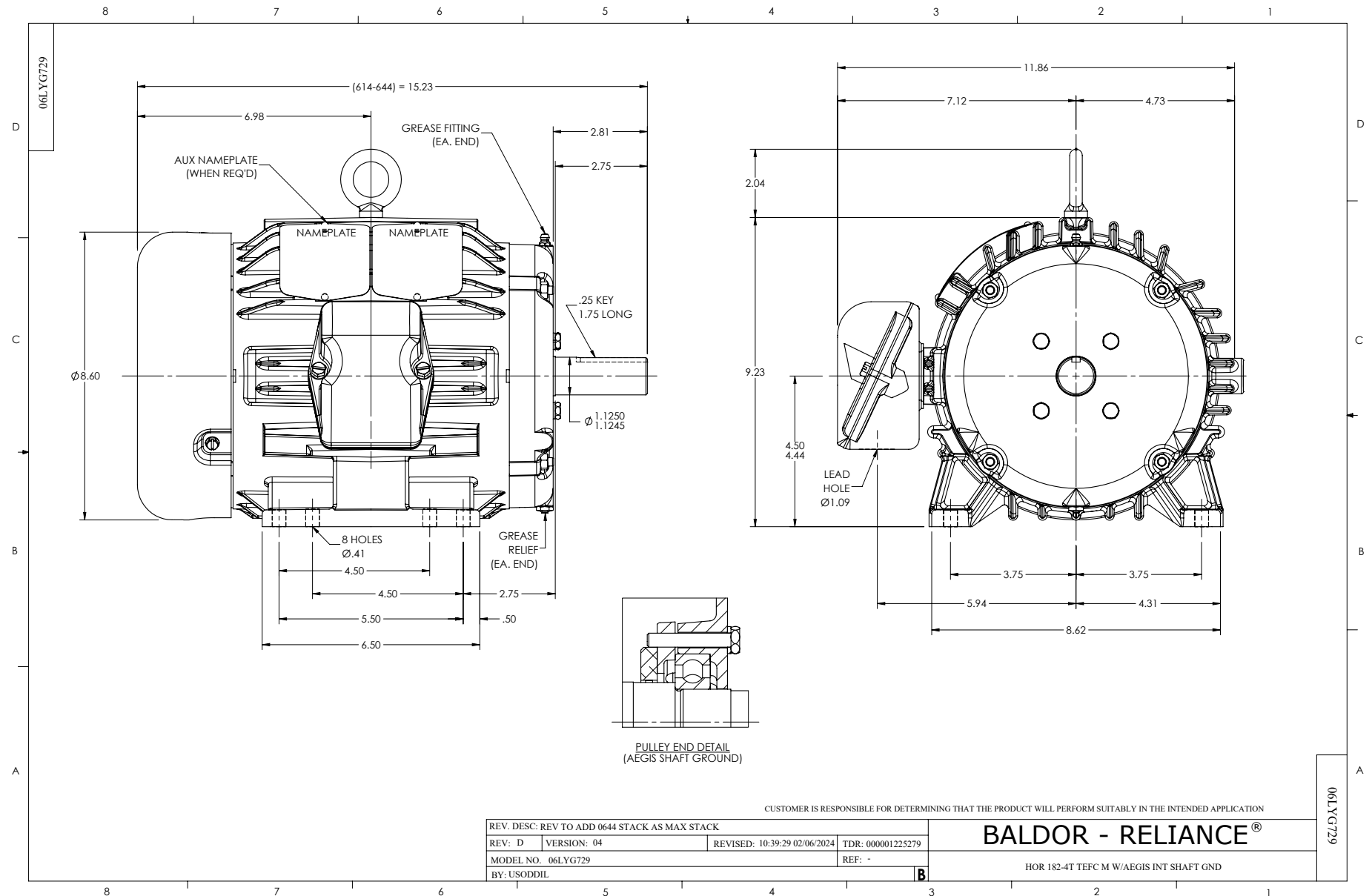
WINDING # 06WGX782

Typical performance - not guaranteed values.

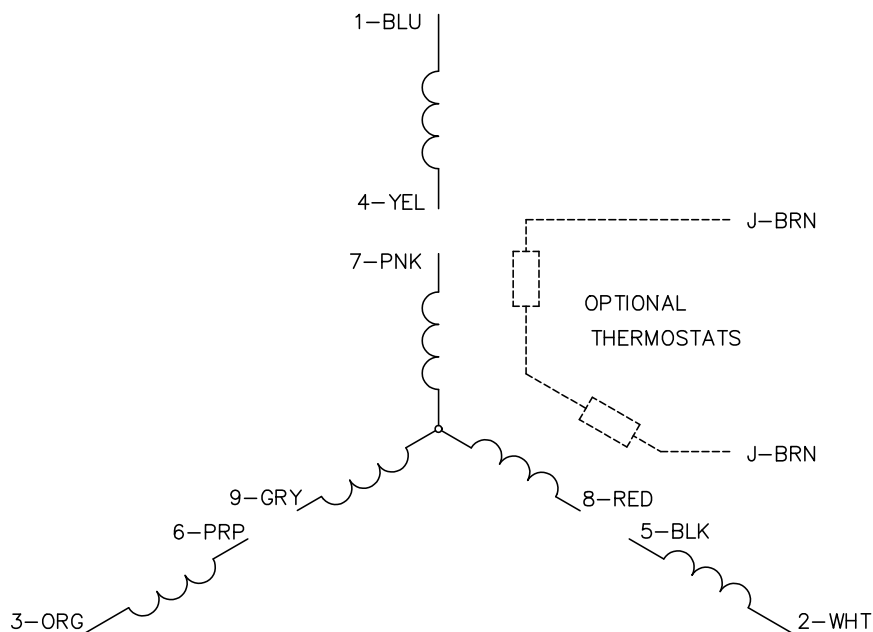
5 HP 3 PH 60 HZ 3480 RPM 460 V 0628M

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

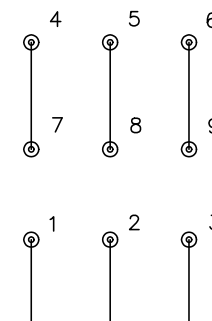




CD0005

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