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# Customer information packet

## VEBM3611T-5

3HP, 1760RPM, 3PH, 60HZ, 182TC, 3628M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | TEFC                      |
| Frame                          | 182TC                     |
| 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             | 3.000 HP @ 60 HZ          |
| Phase                          | 3                         |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ          |
| Voltage @ Frequency            | 575.0 V @ 60 HZ           |
| Agency Approvals               | UR<br>CSA<br>CSA EEV      |
| Ambient Temperature            | 40 °C                     |
| Auxillary Box                  | No Auxillary Box          |
| Auxillary Box Lead Termination | None                      |
| Base Indicator                 | No Mounting               |
| Bearing Grease Type            | Polyrex EM (-20F +300F)   |
| Blower                         | None                      |
| Brake Torque                   | 15.0 lb-ft                |
| Current @ Voltage              | 3.100 A @ 575.0 V         |
| Design Code                    | B                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 89.5 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Front Face Code                | Brake Mounting            |
| Front Shaft Indicator          | None                      |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 3.1 a                     |

## Part detail

|              |            |
|--------------|------------|
| Revision     | P          |
| Type         | AC         |
| Mech. spec.  | 36E049     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGY438   |
| Layout       | 36LYE049   |
| Eff. date    | 05-01-2024 |
| CD Diagram   | CD0006     |
| Poles        | 04         |
| Leads        | 3#16       |
| Proprietary  | False      |
| Created date | 01-06-2006 |

|                               |                     |
|-------------------------------|---------------------|
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 3 @ 16 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3628M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 15.56 IN            |
| Power Factor                  | 77                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | C-Face              |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 1.125 IN            |
| Shaft Extension Location      | Pulley End          |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1760 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.      | VEBM3611T-5  |      |     |      |   |    |   |    |   |  |  |
| SPEC.        | 36E049Y438G2 |      |     |      |   |    |   |    |   |  |  |
| HP           | 3            |      |     |      |   |    |   |    |   |  |  |
| VOLTS        | 575          |      |     |      |   |    |   |    |   |  |  |
| AMP          | 3.1          |      |     |      |   |    |   |    |   |  |  |
| RPM          | 1760         |      |     |      |   |    |   |    |   |  |  |
| FRAME        | 182TC        |      | HZ  | 60   |   |    |   | PH | 3 |  |  |
| SER.F.       | 1.15         | CODE | K   | DES  | B | CL | F |    |   |  |  |
| NEMA-NOM-EFF | 89.5         | PF   | 77  |      |   |    |   |    |   |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |   |    |   |  |  |
| CC           | 010A         |      |     |      |   |    |   |    |   |  |  |
| DE           | 6206         |      | ODE | 6205 |   |    |   |    |   |  |  |
| ENCL         | TEFC         | SN   |     |      |   |    |   |    |   |  |  |

## AC Induction Motor Performance Data

Record # 11327

Typical performance - not guaranteed values

| Winding: 36WGY438-R001 |  |              |  | Type: 3628M                           |  | Enclosure: TEFC |  |
|------------------------|--|--------------|--|---------------------------------------|--|-----------------|--|
| Nameplate Data         |  |              |  | 575 V, 60 Hz:<br>Single Voltage Motor |  |                 |  |
| Rated Output (HP)      |  | 3            |  | Full Load Torque                      |  | 9 LB-FT         |  |
| Volts                  |  | 575          |  | Start Configuration                   |  | direct on line  |  |
| Full Load Amps         |  | 3.1          |  | Breakdown Torque                      |  | 31 LB-FT        |  |
| R.P.M.                 |  | 1760         |  | Pull-up Torque                        |  | 16.5 LB-FT      |  |
| Hz                     |  | 60           |  | Phase                                 |  | 3               |  |
| NEMA Design Code       |  | B            |  | KVA Code                              |  | K               |  |
| Service Factor (S.F.)  |  | 1.15         |  | Starting Current                      |  | 25.6 A          |  |
| NEMA Nom. Eff.         |  | 89.5         |  | Power Factor                          |  | 77              |  |
| Rating - Duty          |  | 40C AMB-CONT |  | Temp. Rise @ Rated Load               |  | 41°C            |  |
| S.F. Amps              |  |              |  | Temp. Rise @ S.F. Load                |  | 50°C            |  |
|                        |  |              |  | Locked-rotor Power Factor             |  | 42              |  |
|                        |  |              |  | Rotor inertia                         |  | 0.263 LB-FT2    |  |

## Load Characteristics 575 V, 60 Hz, 3 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 37   | 58   | 71   | 77   | 81   | 83   | 79   |
| Efficiency      | 84   | 89.1 | 90   | 89.7 | 88.7 | 87.3 | 89.1 |
| Speed           | 1788 | 1778 | 1767 | 1756 | 1743 | 1729 | 1748 |
| Line amperes    | 1.9  | 2.2  | 2.7  | 3.1  | 3.9  | 4.6  | 3.6  |

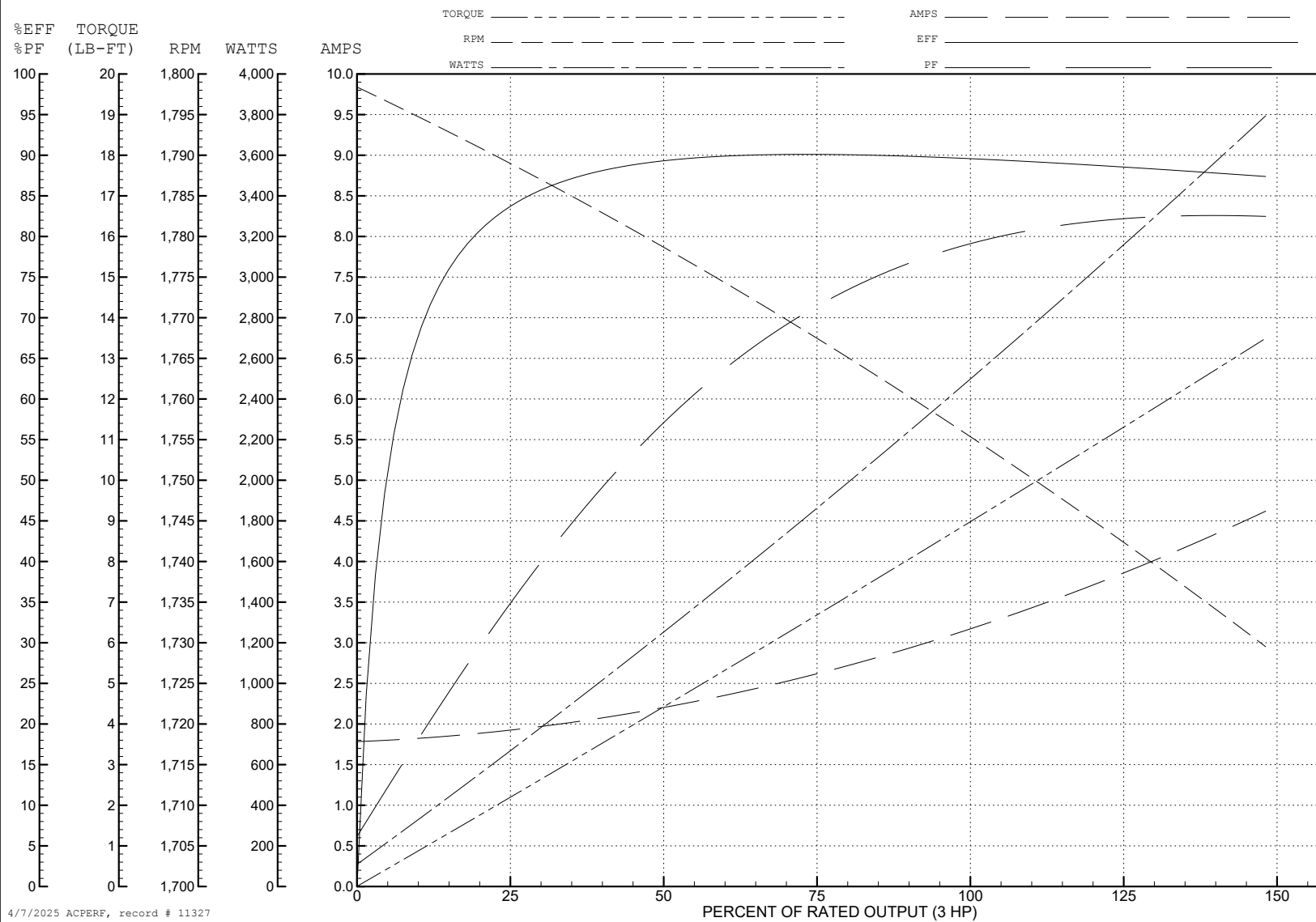
ABB Motors and Mechanical Inc.

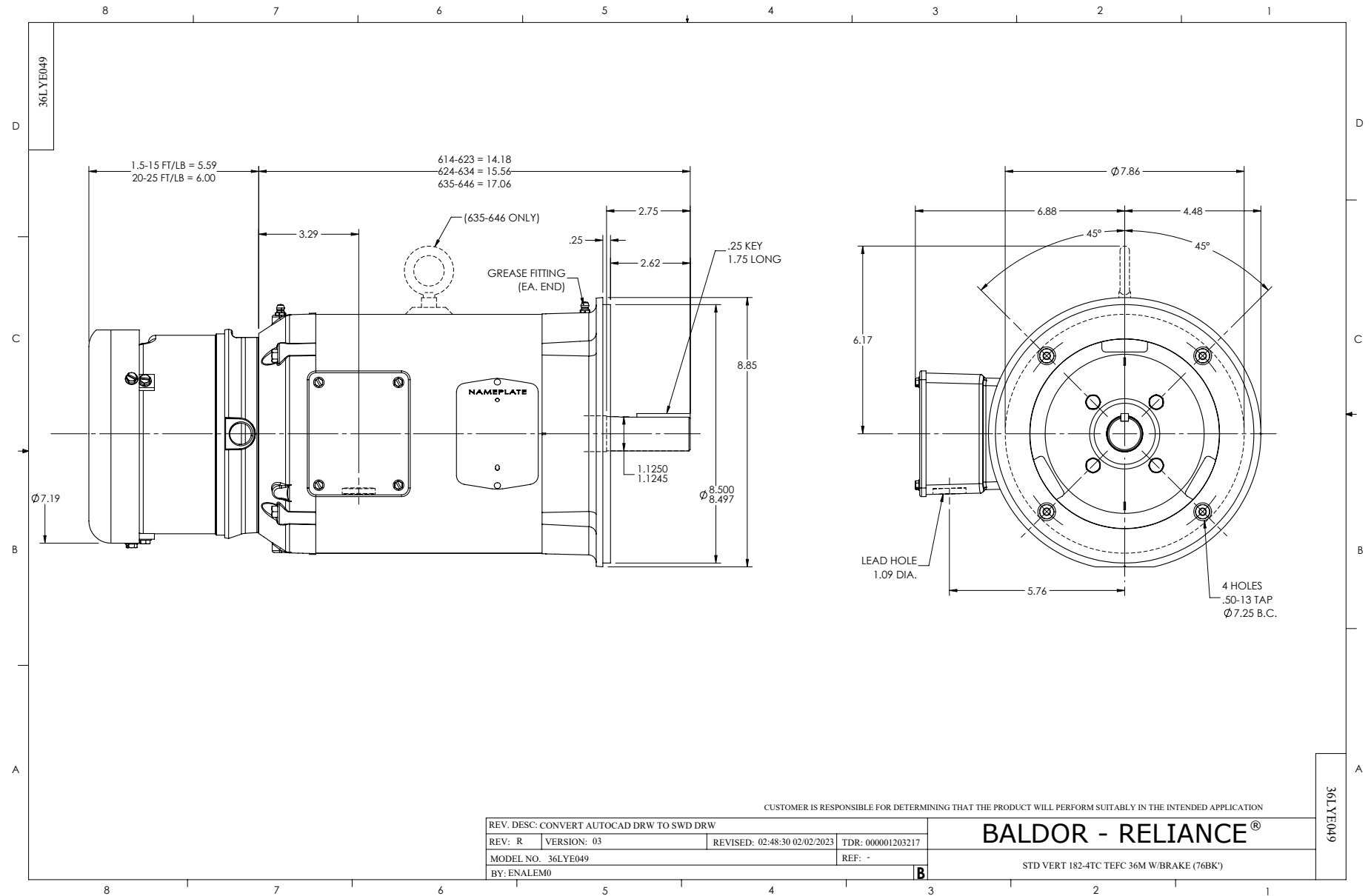
WINDING # 36WGY438

Typical performance - not guaranteed values.

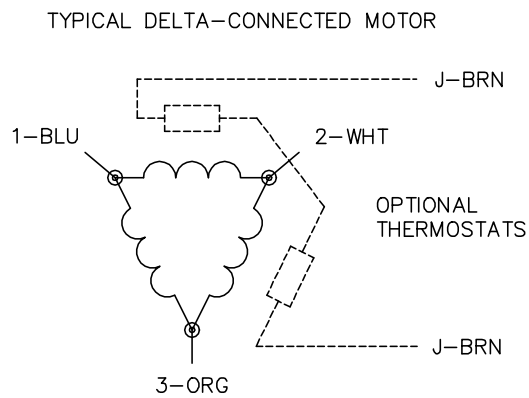
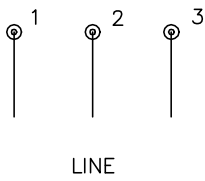
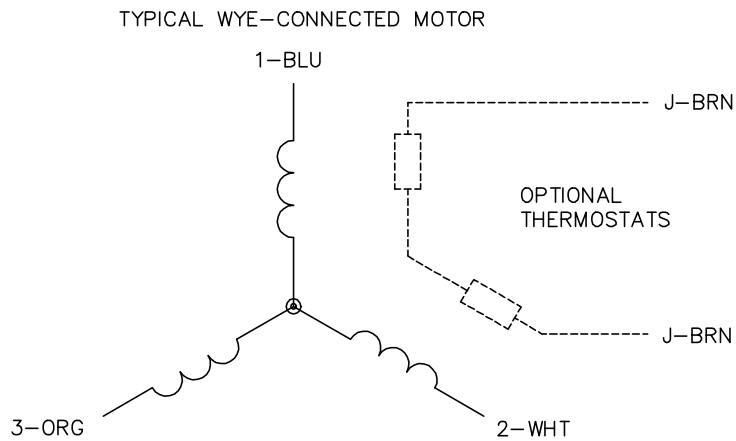
3 HP 3 PH 60 HZ 1760 RPM 575 V 3628M

TORQUES (LB-FT): PO=31 PU=16.5 LR=22 LRA=25.6





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