



---

# Customer information packet

## MVM3458D

.25KW, 1725RPM, 3PH, 60HZ, D71D, 3320M, TEFC

## Specifications

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Enclosure                      | TEFC                                                       |
| Frame                          | D71D                                                       |
| Frame Material                 | Steel                                                      |
| Frequency                      | 60.00 Hz                                                   |
| Motor Letter Type              | Three Phase                                                |
| Output @ Frequency             | .330 HP @ 60 HZ                                            |
| Phase                          | 3                                                          |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                           |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                         |
| Agency Approvals               | CSA<br>UR                                                  |
| 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                                                       |
| Current @ Voltage              | .700 A @ 460.0 V<br>1.400 A @ 230.0 V<br>1.700 A @ 208.0 V |
| Design Code                    | B                                                          |
| Drip Cover                     | No Drip Cover                                              |
| Duty Rating                    | CONT                                                       |
| Efficiency @ 100% Load         | 74.0 %                                                     |
| Electrically Isolated Bearing  | Not Electrically Isolated                                  |
| Feedback Device                | NO FEEDBACK                                                |
| Feedback Signal                | NONE                                                       |
| Frame Prefix                   | D                                                          |
| Front Face Code                | Standard                                                   |
| Front Shaft Indicator          | None                                                       |
| Heater Indicator               | No Heater                                                  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AS         |
| Type         | AC         |
| Mech. spec.  | 33E138     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 33WG0675   |
| Layout       | 33LYE138   |
| Eff. date    | 10-24-2024 |
| CD Diagram   | CD0005A05  |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 06-25-2007 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 0.7 a               |
| Insulation Class              | B                   |
| Inverter Code                 | Not Inverter        |
| KVA Code                      | -                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | IEC                 |
| Motor Type                    | 3320M               |
| Mounting Arrangement          | F2                  |
| Number of Poles               | 4                   |
| Overall Length                | 10.74 IN            |
| Power Factor                  | 58                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | D-Flange            |
| Pulley Shaft Indicator        | Tapped & Key        |
| Rodent Screen                 | None                |
| RoHS Status                   | ROHS COMPLIANT      |
| Service Factor                | 1.35                |
| Shaft Diameter                | 0.552 IN            |
| Shaft Extension Location      | Pulley End          |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1725 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

| NP1379L      |               |      |     |        |    |      |  |   |  |
|--------------|---------------|------|-----|--------|----|------|--|---|--|
| CAT.NO.      | MVM3458D      |      |     |        |    |      |  |   |  |
| SPEC.        | 33E138-0675G1 |      |     |        |    |      |  |   |  |
| IEC FRAME    | D71D          | K.W. |     | .25 TE |    |      |  |   |  |
| VOLTS        | 230/460       |      |     |        |    |      |  |   |  |
| AMP          | 1.4/.7        |      |     |        |    |      |  |   |  |
| RPM          | 1725          |      |     | I.P.   |    | 54   |  |   |  |
| HZ           | 60            |      | PH  |        | 3  | CL   |  | B |  |
| SER.F.       | 1.35          |      | DES |        | B  | CODE |  | - |  |
| NEMA-NOM-EFF | 74            |      | PF  |        | 58 |      |  |   |  |
| RATING       | 40C AMB-CONT  |      |     |        |    |      |  |   |  |
| CC           |               |      |     |        |    |      |  |   |  |
| DE           | 6203          | ODE  |     | 6203   |    |      |  |   |  |
| SER. #       |               |      |     |        |    |      |  |   |  |
|              | SFA 1.6/.8    |      |     |        |    |      |  |   |  |

## AC Induction Motor Performance Data

Record # 16144

Typical performance - not guaranteed values

| Winding: 33WG0675-R001 |    |              | Type: 3320M  |                                          | Enclosure: TEFC |                |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------|----------------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                 |                |
| Rated Output (HP)      |    | 0.33         |              | Full Load Torque                         |                 | 1 LB-FT        |
| Volts                  |    | 230/460      |              | Start Configuration                      |                 | direct on line |
| Full Load Amps         |    | 1.4/0.7      |              | Breakdown Torque                         |                 | 4.2 LB-FT      |
| R.P.M.                 |    | 1725         |              | Pull-up Torque                           |                 | 3.9 LB-FT      |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                 | 4.4 LB-FT      |
| NEMA Design Code       |    | B            | KVA Code     | Starting Current                         |                 | 4 A            |
| Service Factor (S.F.)  |    | 1.35         |              | No-load Current                          |                 | 0.53 A         |
| NEMA Nom. Eff.         |    | 74           | Power Factor | Line-line Res. @ 25°C                    |                 | 47.3 Ω         |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                 | 56°C           |
| S.F. Amps              |    | 1.6/0.8      |              | Temp. Rise @ S.F. Load                   |                 | 71°C           |

## Load Characteristics 460 V, 60 Hz, 0.33 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 29   | 42   | 53   | 62   | 69   | 75   | 72   |
| Efficiency      | 49   | 64   | 71   | 74   | 75   | 75   | 75.4 |
| Speed           | 1776 | 1758 | 1738 | 1717 | 1695 | 1670 | 1686 |
| Line amperes    | 0.54 | 0.57 | 0.61 | 0.67 | 0.74 | 0.82 | 0.77 |

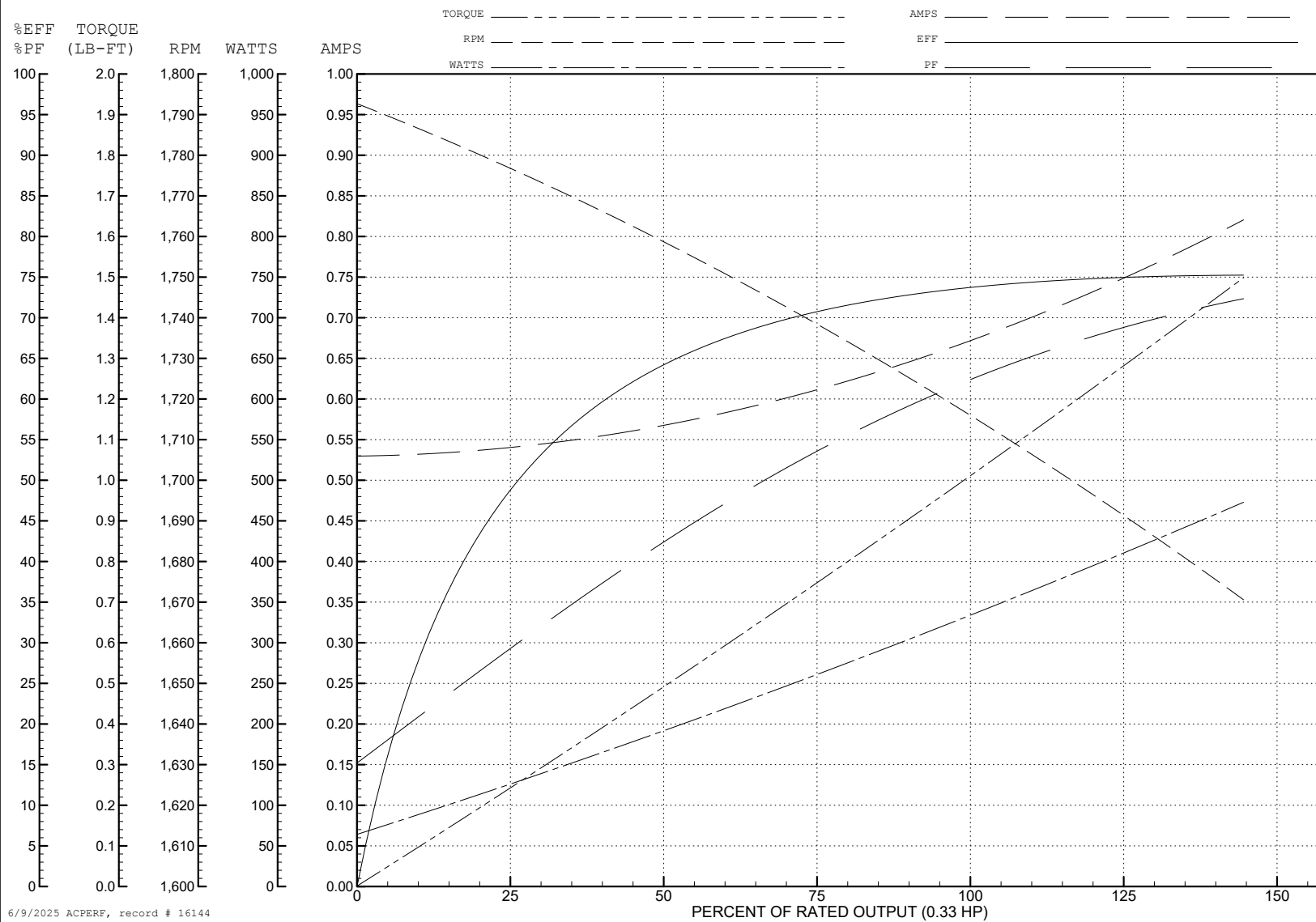
ABB Motors and Mechanical Inc.

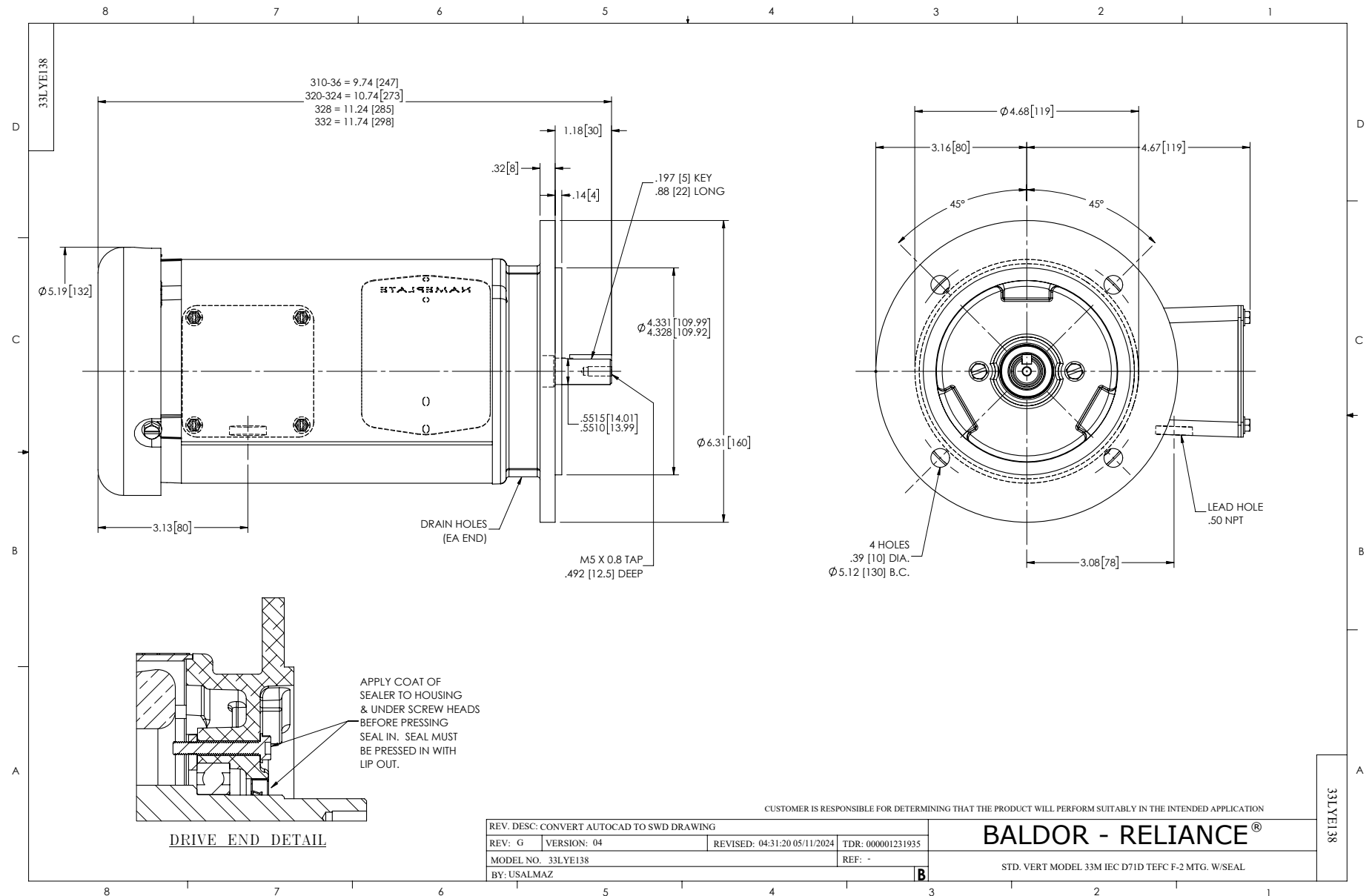
WINDING # 33WG0675

Typical performance - not guaranteed values.

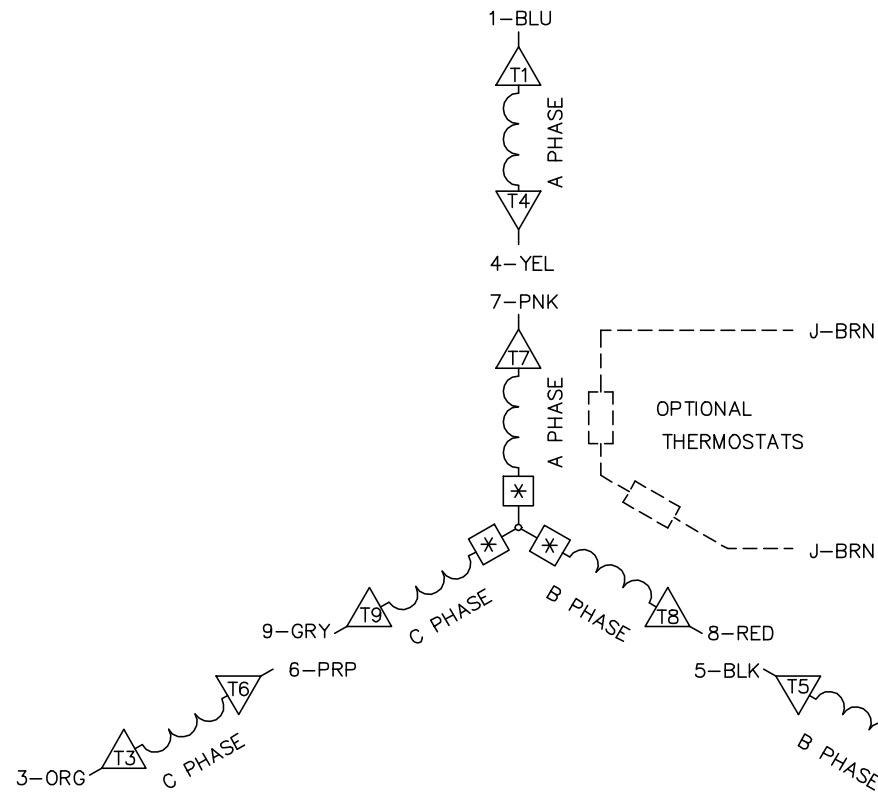
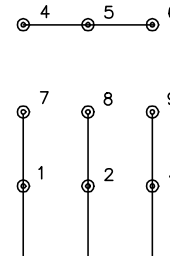
0.33 HP 3 PH 60 HZ 1725 RPM 460 V 3320M

TORQUES (LB-FT) : PO=4.2 PU=3.9 LR=4.4 LRA=4

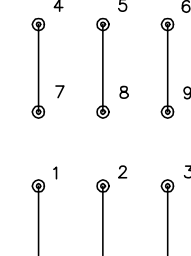




CD0005A05

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.
5. =MAGNET WIRE COIL END WITH I.D. NUMBER.
6. =MAGNET WIRE COIL END WITH I.D. SYMBOL.
7. SEE CW PRINT FOR NEST TO NEST CROSSOVER CONNECTIONS.

REV. DESC: ADD NEST NOTE

REV. LTR: C

VERSION: 03

TDR: 000000445597

CD0005A05

FILE: \CKA\00024\847

REVISED: 12:51:06 11/15/2007

MTL: -

BY: CKMICRO

**BALDOR • DODGE • RELIANCE**

3PH, DV, 9 LEADS, CK

CD0005A05