

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **VSSEWDNM3558**

**2HP,1755RPM,3PH,60HZ,56C,3546M,TENV,F1,N**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | H    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3546M | Elec. Spec: | 35WGL289 | CD Diagram:   | CD0005     |
| Enclosure:  | TENV | Mfg Plant:     |       | Mech. Spec: | 35Z199   | Layout:       | 35LYZ199   |
| Frame:      | 56C  | Mounting:      | F1    | Poles:      | 04       | Created Date: | 07-02-2015 |
| Base:       | N    | Rotation:      | R     | Insulation: | H        | Eff. Date:    | 02-21-2017 |
| Leads:      | 9#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1953A01

|              |              |  |    |      |  |                |     |      |       |  |
|--------------|--------------|--|----|------|--|----------------|-----|------|-------|--|
| CAT.NO.      | VSSEWDNM3558 |  |    |      |  |                |     |      |       |  |
| SPEC.        | 35Z199L289G1 |  |    |      |  |                |     |      |       |  |
| HP           | 2            |  |    |      |  |                |     |      |       |  |
| VOLTS        | 230/460      |  |    |      |  |                |     |      |       |  |
| AMP          | 5.6/2.8      |  |    |      |  |                |     |      |       |  |
| RPM          | 1750         |  |    |      |  |                |     |      |       |  |
| FRAME        | 56C          |  |    |      |  | HZ             |     | 60   |       |  |
| SER.F.       | 1.15         |  |    | CODE |  | M              | DES |      | B     |  |
| NEMA-NOM-EFF | 88.5         |  |    | PF   |  | 78             |     |      | CLASS |  |
| RATING       | 40C AMB-CONT |  |    |      |  |                |     |      |       |  |
| CC           | 010A         |  |    |      |  | USABLE AT 208V |     |      |       |  |
| DE           | 6205         |  |    |      |  | ODE            |     | 6205 |       |  |
| ENCL         | TENV         |  | SN |      |  |                |     |      |       |  |
|              |              |  |    |      |  |                |     |      |       |  |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA304113    | SA 35Z199L289G1                          | 1.000 EA |
| RA291275    | RA 35Z199L289G1                          | 1.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 35FE1917A10 | FREP TENV 205 BRG NO GRS 4X.125 NPT (SS) | 1.000 EA |
| RM1070A25   | O-RING, VITON/FKM .070CS X 6.190ID       | 1.000 EA |
| HW4500A33   | 1/8 NPT STAINLESS,HOLO-KROME #13002,PRES | 3.000 EA |
| HW5100A05   | WVY WSHR F/205 & 304 BRGS                | 1.000 EA |
| 35PE1916A05 | PUEP 56C ENC 205 BRG 4X.125 NPT (SS)     | 1.000 EA |
| RM1070A25   | O-RING, VITON/FKM .070CS X 6.190ID       | 1.000 EA |
| HW4600E99   | AXIAL FACE SEAL 76925-9042-0447 SS CASE  | 1.000 EA |
| HW4500A33   | 1/8 NPT STAINLESS,HOLO-KROME #13002,PRES | 3.000 EA |
| RM1070A26   | O-RING,4.5MM I.D.X1.5MM C.S. (VITON)     | 4.000 EA |
| 36GS3008SP  | WHITE NEOPREME KO BOX LID GASKET         | 1.000 EA |
| 35CB4515    | 35 CB LID #304 STAINLESS STEEL           | 1.000 EA |
| 59XN0832S07 | 8/32 X 7/16 HX WS HD SER X               | 4.000 EA |
| HW2502D13   | SS KEY, 3/16 SQ X 1.375                  | 1.000 EA |
| HA7000A04   | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 EA |
| MJ5001A27   | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.005 QT |
| MJ5004A37   | #76732 LOCTITE ANTISEIZE THRD COMPOUND   | 0.005 EA |
| HA5027A02   | HA4054 T-DRAIN X2 BAGGED WITH LABEL      | 1.000 EA |
| MJ1000A02   | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| WD5603A01   | KIT, CLOSED-END LEAD SPLICE (18-14GA)    | 1.000 EA |
| HA3100S10   | THRUBOLT 11.50LG SS                      | 4.000 EA |
| MN416A01    | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

| Parts List (continued) |                                    |          |
|------------------------|------------------------------------|----------|
| Part Number            | Description                        | Quantity |
| 36PA1000               | PKG GRP, PRINT    PK1016A06        | 1.000 EA |
| PK3082                 | STYROFOAM CRADLE                   | 1.000 EA |
| HA5027A07              | 85XU1208S08 FACE DRAIN PINS BAGGED | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 51199 - Typical performance - not guaranteed values

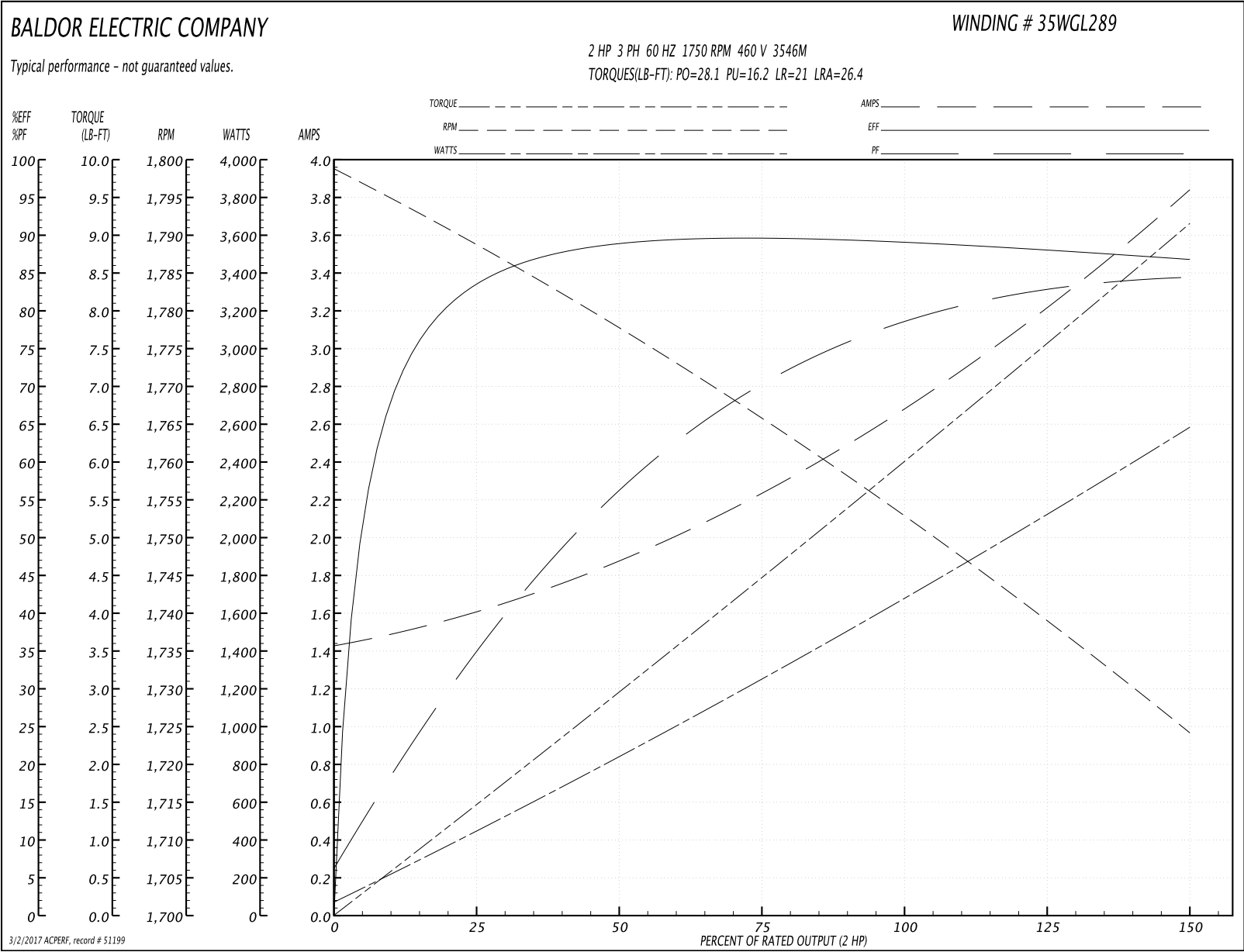
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGL289-R001 | <b>Type:</b> 3546M | <b>Enclosure:</b> TENV |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------|
| Rated Output (HP)     | 2            |              |    | Full Load Torque                         | 6.02 LB-FT     |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line |
| Full Load Amps        | 5.6/2.8      |              |    | Breakdown Torque                         | 28.1 LB-FT     |
| R.P.M.                | 1750         |              |    | Pull-up Torque                           | 16.2 LB-FT     |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 21 LB-FT       |
| NEMA Design Code      | B            | KVA Code     | M  | Starting Current                         | 26.4 A         |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 1.45 A         |
| NEMA Nom. Eff.        | 88.5         | Power Factor | 78 | Line-line Res. @ 25°C                    | 6.055 Ω        |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 95°C           |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 116°C          |

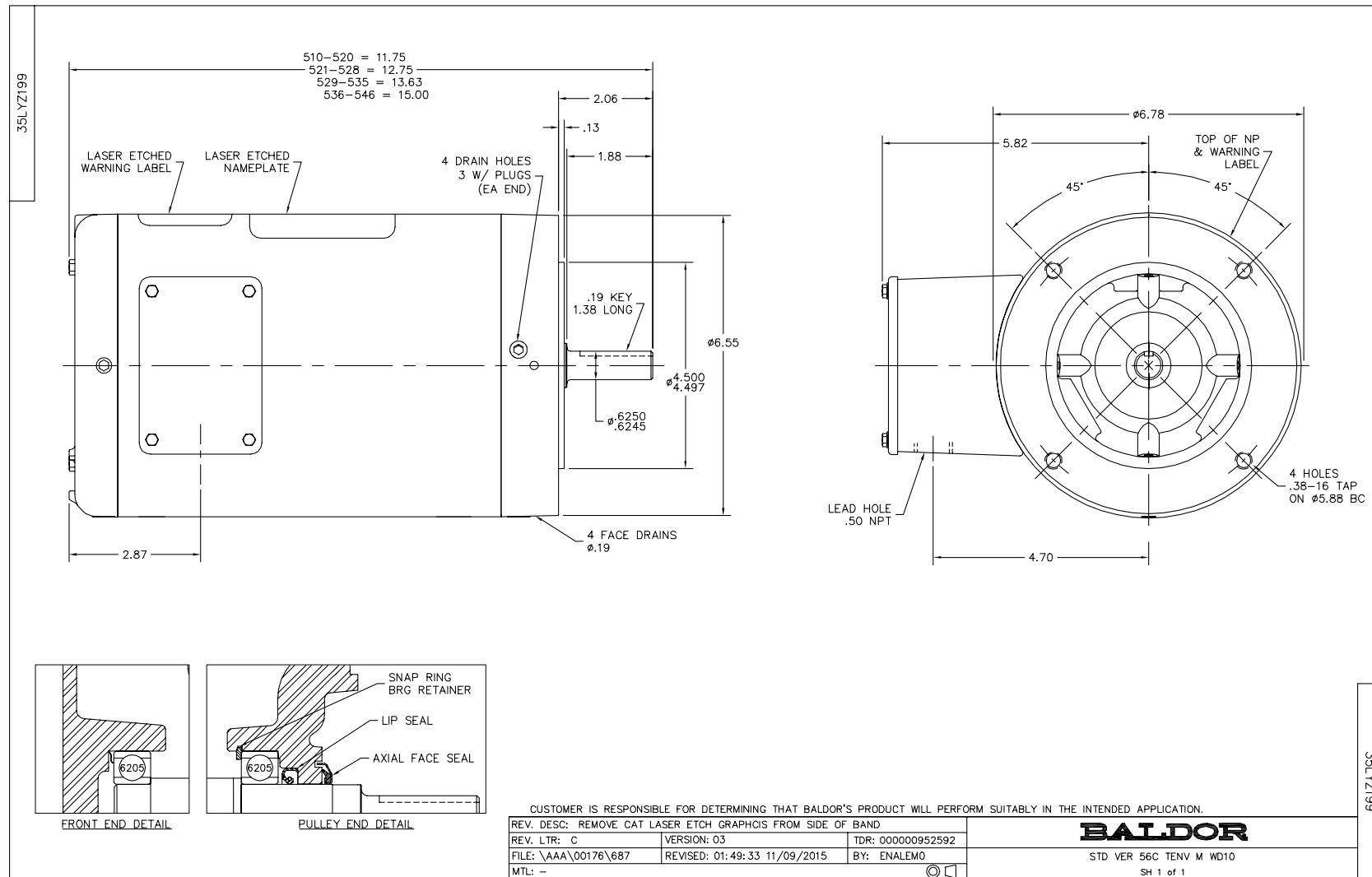
**Load Characteristics 460 V, 60 Hz, 2 HP**

|                 |        |        |        |      |        |        |      |
|-----------------|--------|--------|--------|------|--------|--------|------|
| % of Rated Load | 25     | 50     | 75     | 100  | 125    | 150    | S.F. |
| Power Factor    | 36     | 57     | 70     | 78   | 82     | 85     | 80   |
| Efficiency      | 83.4   | 88.6   | 89.6   | 89.2 | 88.2   | 86.8   | 88.6 |
| Speed           | 1788.3 | 1777.3 | 1765.6 | 1753 | 1739.2 | 1723.9 | 1745 |
| Line amperes    | 1.59   | 1.86   | 2.24   | 2.71 | 3.24   | 3.82   | 3.03 |

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values



3/2/2017 ACPERF, record # 51199



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

900000

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005