

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **VEM3211T**

**3HP,1765RPM,3PH,60HZ,182TC,3630M,ODP,F1**

| Part Detail |       |                |       |             |          |               |            |
|-------------|-------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | C     | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | 3630M | Elec. Spec: | 36WGS658 | CD Diagram:   | CD0005     |
| Enclosure:  | ODP   | Mfg Plant:     |       | Mech. Spec: | 36Q489   | Layout:       | 36LYQ489   |
| Frame:      | 182TC | Mounting:      | F1    | Poles:      | 04       | Created Date: | 05-06-2015 |
| Base:       | N     | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 11-09-2016 |
| Leads:      | 9#16  |                |       |             |          | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |          |               |            |

**Nameplate NP3553L**

|                                  |              |  |                       |  |            |            |      |   |           |  |     |
|----------------------------------|--------------|--|-----------------------|--|------------|------------|------|---|-----------|--|-----|
| <b>CAT.NO.</b>                   | VEM3211T     |  |                       |  |            |            |      |   |           |  |     |
| <b>SPEC.</b>                     | 36Q489S658G1 |  |                       |  |            |            |      |   |           |  |     |
| <b>HP</b>                        | 3            |  |                       |  |            |            |      |   |           |  |     |
| <b>VOLTS</b>                     | 230/460      |  |                       |  |            |            |      |   |           |  |     |
| <b>AMP</b>                       | 8.4/4.2      |  |                       |  |            |            |      |   |           |  |     |
| <b>RPM</b>                       | 1765         |  |                       |  |            |            |      |   |           |  |     |
| <b>FRAME</b>                     | 182TC        |  |                       |  | <b>HZ</b>  |            | 60   |   | <b>PH</b> |  | 3   |
| <b>SER.F.</b>                    | 1.15         |  | <b>CODE</b>           |  | K          | <b>DES</b> |      | B | <b>CL</b> |  | F   |
| <b>NEMA-NOM-EFF</b>              | 89.5         |  | <b>PF</b>             |  | 74         |            |      |   |           |  |     |
| <b>RATING</b>                    | 40C AMB-CONT |  |                       |  |            |            |      |   |           |  |     |
| <b>CC</b>                        | 010A         |  | <b>USABLE AT 208V</b> |  |            |            |      |   |           |  | 8.5 |
| <b>DE</b>                        | 6206         |  |                       |  | <b>ODE</b> |            | 6205 |   |           |  |     |
| <b>ENCL</b>                      | ODP          |  | <b>SN</b>             |  |            |            |      |   |           |  |     |
| <b>VPWM INVERTER READY</b>       |              |  |                       |  |            |            |      |   |           |  |     |
| <b>CT30-60(2:1) VT3-60(20:1)</b> |              |  |                       |  |            |            |      |   |           |  |     |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA300796    | SA 36Q489S658G1                          | 1.000 EA |
| RA287856    | RA 36Q489S658G1                          | 1.000 EA |
| 36CB3004    | 36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0 | 1.000 EA |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01   | BRASS CUP WASHER, FOR #8 SCREW           | 1.000 EA |
| 36EP3200A32 | SPL FR.E.P. OPEN 36L OR M 205 BRG FOR DR | 1.000 EA |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HW5100A05   | WVY WSHR F/205 & 304 BRGS                | 1.000 EA |
| 36PE3403A03 | PUEP ASSEMBLY FOR ROUTING PURPOSES       | 1.000 EA |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| 36AD2000    | AIR BAFFLE                               | 1.000 EA |
| 60XW0632A06 | 6-32 X 3/8 TORX HEAD SCREW TAPTITE II    | 4.000 EA |
| 10XN2520A28 | 1/4-20X 1 3/4 HEX HD                     | 4.000 EA |
| HW1001A25   | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| 36FH4012A01 | DRIP COVER NOTCH BOTTOM, W/ PRIMER       | 1.000 EA |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 36CB4516    | 36 LIPPED CB LID                         | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501E16   | 3KEY, 1/4 SQ X 1.750                     | 1.000 EA |
| HA7000A02   | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 EA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| MJ1000A02   | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1000Y03   | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,      | 0.022 GA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HA3101A25              | THRUBOLT 1/4-20 X 11.000 OHIO ROD        | 4.000 EA |
| LC0005E01              | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |
| NP3553L                | ALUM SUPER-E VPWM INVERTER READY UL      | 1.000 EA |
| 36PA1001               | PKG GRP, PRINT     PK1017A06             | 1.000 EA |
| PK3082                 | STYROFOAM CRADLE                         | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 33604 - Typical performance - not guaranteed values

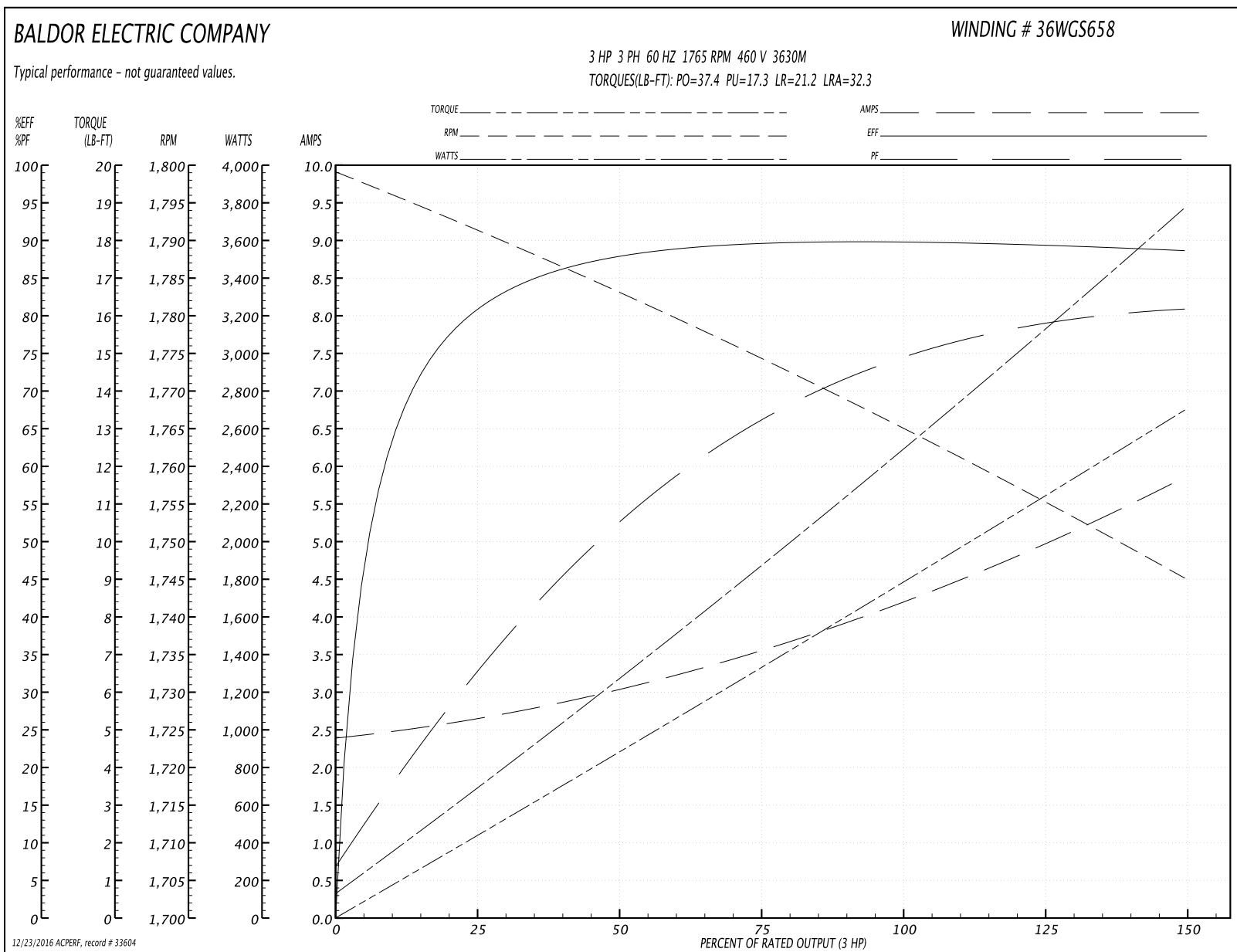
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 36WGS658-R001 | <b>Type:</b> 3630M | <b>Enclosure:</b> OPSB |
|-------------------------------|--------------------|------------------------|

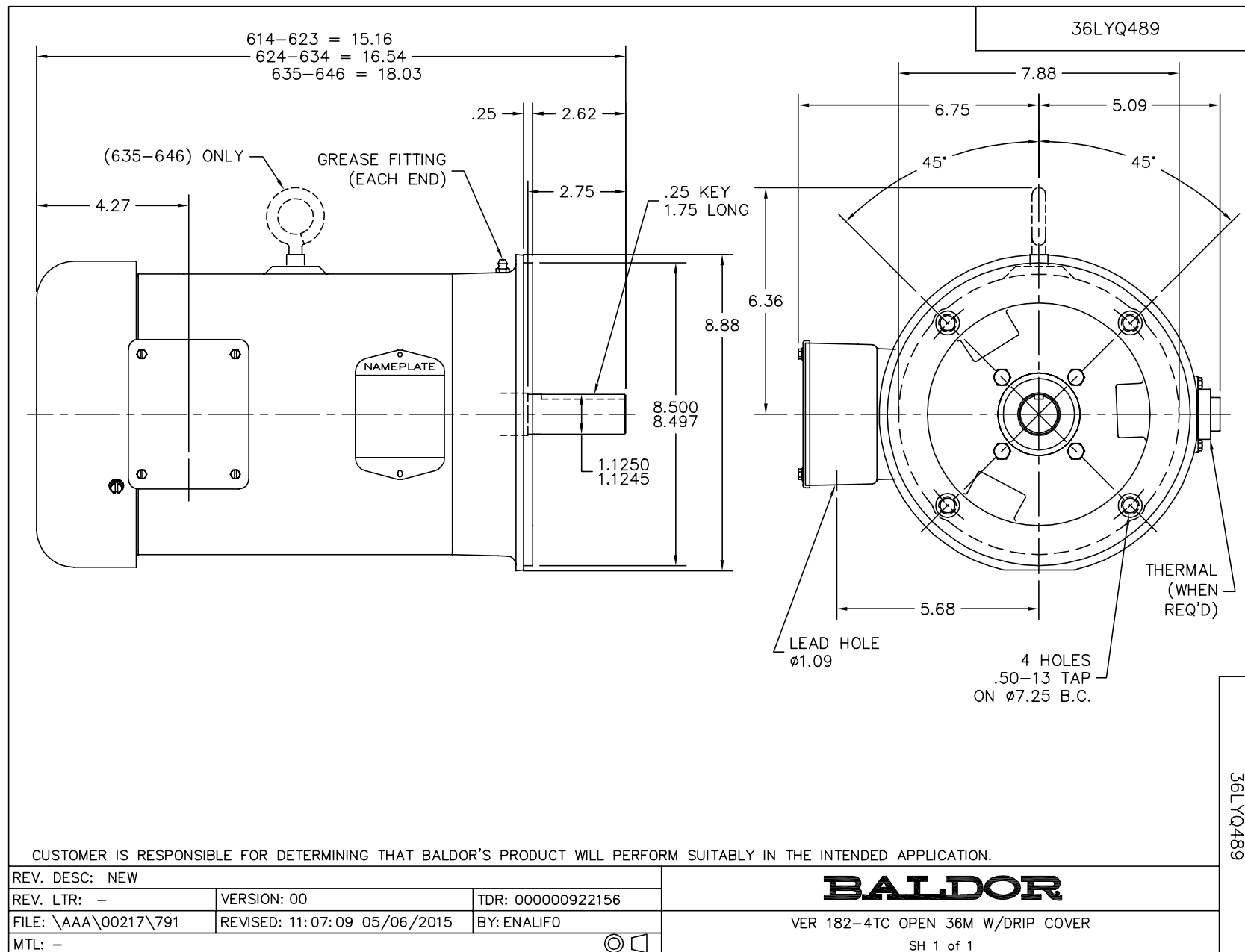
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                          |
|-----------------------|--------------|--------------|----|------------------------------------------|--------------------------|
| Rated Output (HP)     | 3            |              |    | Full Load Torque                         | 8.87 LB-FT               |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line           |
| Full Load Amps        | 8.4/4.2      |              |    | Breakdown Torque                         | 37.4 LB-FT               |
| R.P.M.                | 1765         |              |    | Pull-up Torque                           | 17.3 LB-FT               |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 21.2 LB-FT               |
| NEMA Design Code      | B            | KVA Code     | K  | Starting Current                         | 32.3 A                   |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 2.43 A                   |
| NEMA Nom. Eff.        | 89.5         | Power Factor | 74 | Line-line Res. @ 25°C                    | 3.8716 Ω                 |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 24°C                     |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 28°C                     |
|                       |              |              |    | Locked-rotor Power Factor                | 43                       |
|                       |              |              |    | Rotor inertia                            | 0.279 LB-FT <sup>2</sup> |

**Load Characteristics 460 V, 60 Hz, 3 HP**

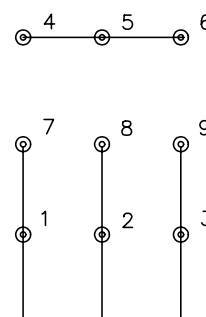
|                 |        |      |        |        |        |        |      |
|-----------------|--------|------|--------|--------|--------|--------|------|
| % of Rated Load | 25     | 50   | 75     | 100    | 125    | 150    | S.F. |
| Power Factor    | 33     | 53   | 66     | 73     | 79     | 81     | 77   |
| Efficiency      | 80.2   | 87.5 | 89.5   | 89.7   | 89.5   | 88.7   | 89.6 |
| Speed           | 1791.1 | 1783 | 1774.5 | 1765.5 | 1755.7 | 1744.8 | 1760 |
| Line amperes    | 2.6    | 2.99 | 3.54   | 4.25   | 4.97   | 5.83   | 4.68 |

## Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values

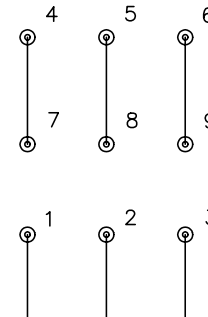




CD0005


 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