

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **VEWDM3554T**

**1.5HP,1755RPM,3PH,60HZ,145TC,3533M,TENV**

| Part Detail |       |                |       |             |          |               |            |
|-------------|-------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | K     | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | 3533M | Elec. Spec: | 35WGM613 | CD Diagram:   | CD0005     |
| Enclosure:  | TENV  | Mfg Plant:     |       | Mech. Spec: | 35SS606  | Layout:       | 35LYSS606  |
| Frame:      | 145TC | Mounting:      | F1    | Poles:      | 04       | Created Date: | 02-13-2012 |
| Base:       | N     | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 08-24-2016 |
| Leads:      | 9#18  |                |       |             |          | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1669L

|              |               |  |                |     |    |      |       |  |    |   |     |
|--------------|---------------|--|----------------|-----|----|------|-------|--|----|---|-----|
| CAT.NO.      | VEWDM3554T    |  |                |     |    |      |       |  |    |   |     |
| SPEC.        | 35SS606M613G1 |  |                |     |    |      |       |  |    |   |     |
| HP           | 1.5           |  |                |     |    |      |       |  |    |   |     |
| VOLTS        | 230/460       |  |                |     |    |      |       |  |    |   |     |
| AMP          | 4.2/2.1       |  |                |     |    |      |       |  |    |   |     |
| RPM          | 1755          |  |                |     |    |      |       |  |    |   |     |
| FRAME        | 145TC         |  |                |     | HZ |      | 60    |  | PH | 3 |     |
| SER.F.       | 1.15          |  | CODE           |     | K  |      | DES   |  | B  |   |     |
| NEMA-NOM-EFF | 86.5          |  | PF             |     | 76 |      | CLASS |  | F  |   |     |
| RATING       | 40C AMB-CONT  |  |                |     |    |      |       |  |    |   |     |
| CC           | 010A          |  | USABLE AT 208V |     |    |      |       |  |    |   | 4.4 |
| DE           | 6205          |  |                | ODE |    | 6203 |       |  |    |   |     |
| ENCL         | TENV          |  | SN             |     |    |      |       |  |    |   |     |
| BLANK        |               |  |                |     |    |      |       |  |    |   |     |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA239119      | SA 35SS606M613G1                         | 1.000 EA |
| RA226030      | RA 35SS606M613G1                         | 1.000 EA |
| 35CB3010A01W  | 35 CB .75 NPT @ 6:00, WHITE EPOXY        | 1.000 EA |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 35GS1040      | 35 MOLDED GASKET W/LIP, LEAD SEAL,       | 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 |
| 35EP3100M71MW | SPL FR ENDPLATE -TENV- SP.#9 (WHITE EPOX | 1.000 EA |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 EA |
| HW5100A03SP   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35EP3300A48MW | SPL FACE MTD EP - 205 BRG - W/SEAL FOR W | 1.000 EA |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 EA |
| HW4600B49     | SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB | 1.000 EA |
| 12XN1032S20   | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 EA |
| 35CB4522      | 35 LIPPED CB LID PRIMED                  | 1.000 EA |
| 35GS1030A02   | 35 GS FOR CB LID - WHITE NEOPRENE        | 1.000 EA |
| 59XW0832S07   | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 EA |
| HW4600B46     | V-RING SLINGER 0.875 X 1.420 X .24 VITON | 1.000 EA |
| HW2502D13     | SS KEY, 3/16 SQ X 1.375                  | 1.000 EA |
| HA7000A01     | KEY RETAINER 7/8" DIA SHAFT              | 1.000 EA |
| MJ5001A27     | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 QT |
| LB1164        | LABEL,WARNING AND DRAIN                  | 1.000 EA |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| HA5027A01     | HA4066A01 T-DRAIN X2 BAGGED              | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1025Z02              | ACTIVATOR WILKOFAS 060.02HF              | 0.010 GA |
| MG1025W01              | WILKOFAS, 781.01, SIGNAL WHITE #9003     | 0.017 GA |
| HA3100S09              | THRUBOLT 9.25 LENGTH SS                  | 4.000 EA |
| LC0005                 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 EA |
| NP1669L                | SS WD SUPER-E UL CSA-EEV PREM REV MTG    | 1.000 EA |
| 35PA1066               | PKG GRP, PRINT PK1008A06                 | 1.000 EA |
| PK3082                 | STYROFOAM CRADLE                         | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 52498 - Typical performance - not guaranteed values

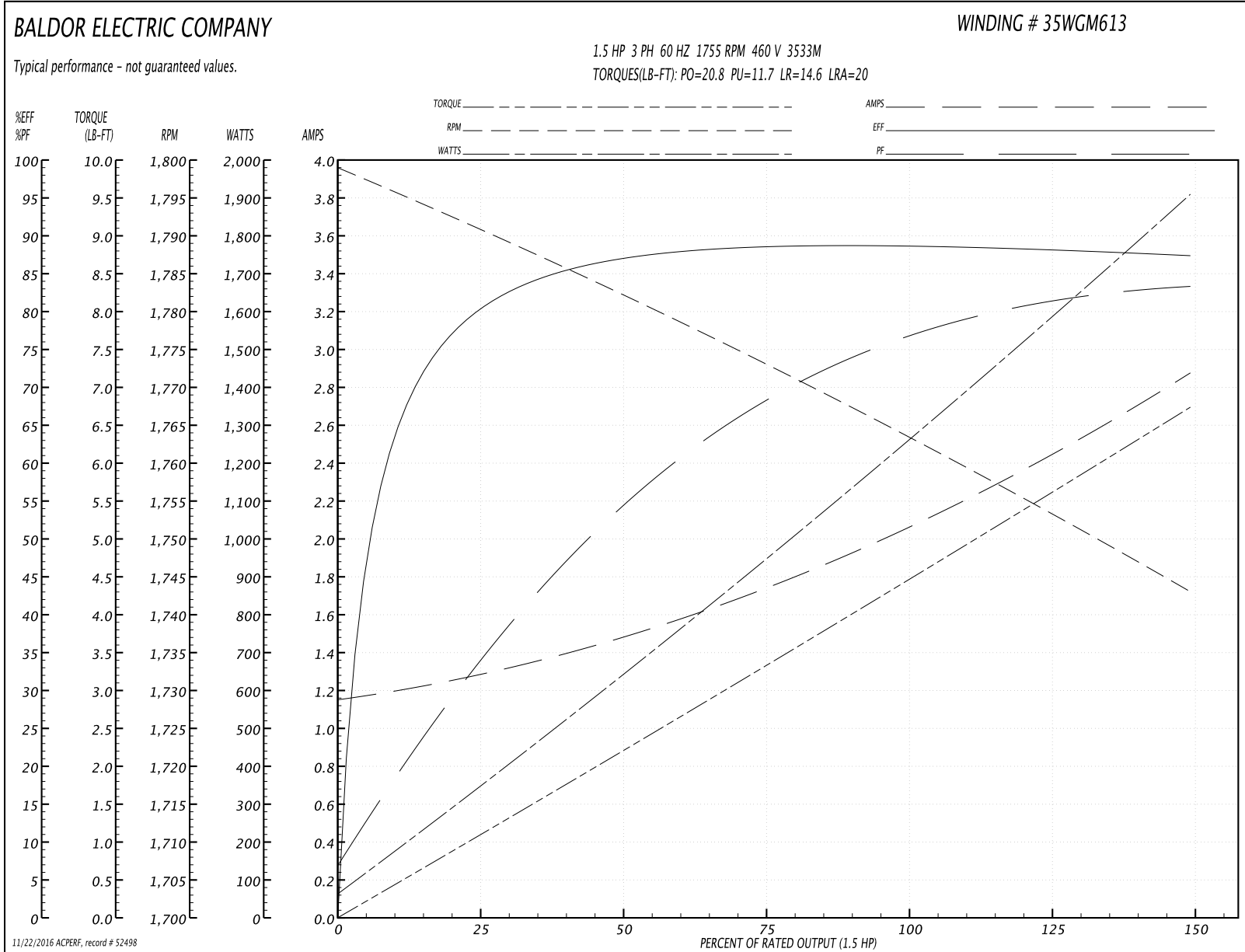
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGM613-R012 | <b>Type:</b> 3533M | <b>Enclosure:</b> TENV |
|-------------------------------|--------------------|------------------------|

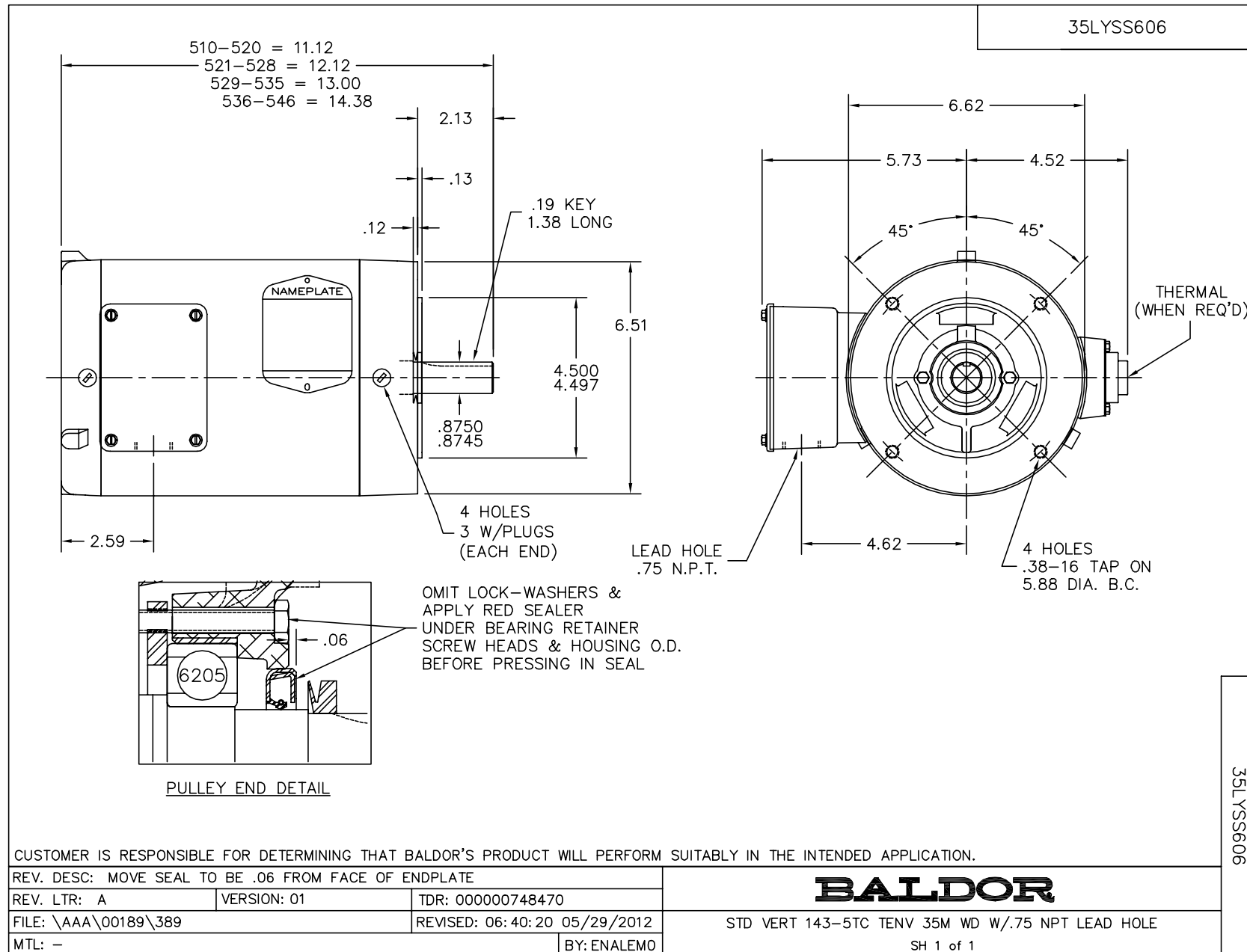
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                          |
|-----------------------|--------------|--------------|----|------------------------------------------|--------------------------|
| Rated Output (HP)     | 1.5          |              |    | Full Load Torque                         | 4.45 LB-FT               |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line           |
| Full Load Amps        | 4.2/2.1      |              |    | Breakdown Torque                         | 20.8 LB-FT               |
| R.P.M.                | 1755         |              |    | Pull-up Torque                           | 11.7 LB-FT               |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 14.6 LB-FT               |
| NEMA Design Code      | B            | KVA Code     | K  | Starting Current                         | 20 A                     |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 1.17 A                   |
| NEMA Nom. Eff.        | 86.5         | Power Factor | 76 | Line-line Res. @ 25°C                    | 8 Ω                      |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 77°C                     |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 90°C                     |
|                       |              |              |    | Locked-rotor Power Factor                | 46                       |
|                       |              |              |    | Rotor inertia                            | 0.195 LB-FT <sup>2</sup> |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 35   | 54   | 68   | 76   | 81   | 84   | 79   |
| Efficiency      | 80.5 | 87.1 | 88.3 | 88.8 | 88.3 | 87.4 | 88.5 |
| Speed           | 1791 | 1782 | 1773 | 1764 | 1753 | 1743 | 1757 |
| Line amperes    | 1.26 | 1.46 | 1.76 | 2.07 | 2.45 | 2.87 | 2.3  |

## Performance Graph at 460V, 60Hz, 1.5HP 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