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# Customer information packet

## VFSWDM3546T-E-G

1HP, 1770RPM, 3PH, 60HZ, 143TC, 3522M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TENV                                                        |
| Frame                          | 143TC                                                       |
| Frame Material                 | Stainless Steel                                             |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | 1.000 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               | CURUSEEV<br>NEMA PREMIUM<br>WEEE                            |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | No Mounting                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 3.300 A @ 208.0 V<br>3.340 A @ 230.0 V<br>1.670 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 85.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | -          |
| Type         | AC         |
| Mech. spec.  | 35E6051    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG184   |
| Layout       | 35LYE6051  |
| Eff. date    | 08-14-2023 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 07-06-2023 |

|                               |                        |
|-------------------------------|------------------------|
| High Voltage Full Load Amps   | 1.7 a                  |
| Insulation Class              | H                      |
| Inverter Code                 | Inverter Ready         |
| KVA Code                      | N                      |
| Lifting Lugs                  | No Lifting Lugs        |
| Locked Bearing Indicator      | Locked Bearing         |
| Max Speed                     | 2700 rpm               |
| Motor Finish                  | UNPAINTED              |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG             |
| Motor Lead Termination        | Flying Leads           |
| Motor Standards               | NEMA                   |
| Motor Type                    | 3522M                  |
| Mounting Arrangement          | F1                     |
| Number of Poles               | 4                      |
| Overall Length                | 12.84 IN               |
| Power Factor                  | 66                     |
| Product Family                | WD All SS Encapsulated |
| Pulley End Bearing Type       | Sealed Bearing         |
| Pulley Face Code              | C-Face                 |
| Pulley Shaft Indicator        | Standard               |
| Rodent Screen                 | None                   |
| RoHS Status                   | ROHS COMPLIANT         |
| Service Factor                | 1.15                   |
| Shaft Diameter                | 0.875 IN               |
| Shaft Ground Indicator        | Shaft Grounding        |
| Shaft Rotation                | Reversible             |
| Shaft Slinger Indicator       | No Slinger             |
| Speed                         | 1770 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 |
|-------------------|------|

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**AC Induction Motor Performance Data**

Record # 75065

Typical performance - not guaranteed values

| Winding: 35WGW045-R003 |                   | Type: 3522M                              | Enclosure: TENV         |
|------------------------|-------------------|------------------------------------------|-------------------------|
| Nameplate Data         |                   | 460 V, 60 Hz:<br>High Voltage Connection |                         |
| Rated Output (HP)      | 1                 | Full Load Torque                         | 3.01 LB-FT              |
| Volts                  | 230/460           | Start Configuration                      | direct on line          |
| Full Load Amps         | 3/1.5             | Breakdown Torque                         | 13.4 LB-FT              |
| R.P.M.                 | 1760              | Pull-up Torque                           | 7.77 LB-FT              |
| Hz                     | 60 Phase          | Locked-rotor Torque                      | 9.5 LB-FT               |
| NEMA Design Code       | B KVA Code        | Starting Current                         | 13.5 A                  |
| Service Factor (S.F.)  | 1.15              | No-load Current                          | 1.02 A                  |
| NEMA Nom. Eff.         | 85.5 Power Factor | Line-line Res. @ 25°C                    | 14.4 Ω                  |
| Rating - Duty          | 40C AMB-CONT      | Temp. Rise @ Rated Load                  | 78°C                    |
| S.F. Amps              |                   | Temp. Rise @ S.F. Load                   | 91°C                    |
|                        |                   | Locked-rotor Power Factor                | 54                      |
|                        |                   | Rotor inertia                            | 0.13 LB-FT <sup>2</sup> |

**Load Characteristics 460 V, 60 Hz, 1 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 31   | 49   | 62   | 71   | 77   | 81   | 75   |
| Efficiency      | 73.4 | 82.2 | 85.1 | 85.6 | 85   | 83.9 | 85.2 |
| Speed           | 1790 | 1780 | 1771 | 1760 | 1749 | 1736 | 1753 |
| Line amperes    | 1.06 | 1.19 | 1.35 | 1.55 | 1.79 | 2.07 | 1.69 |

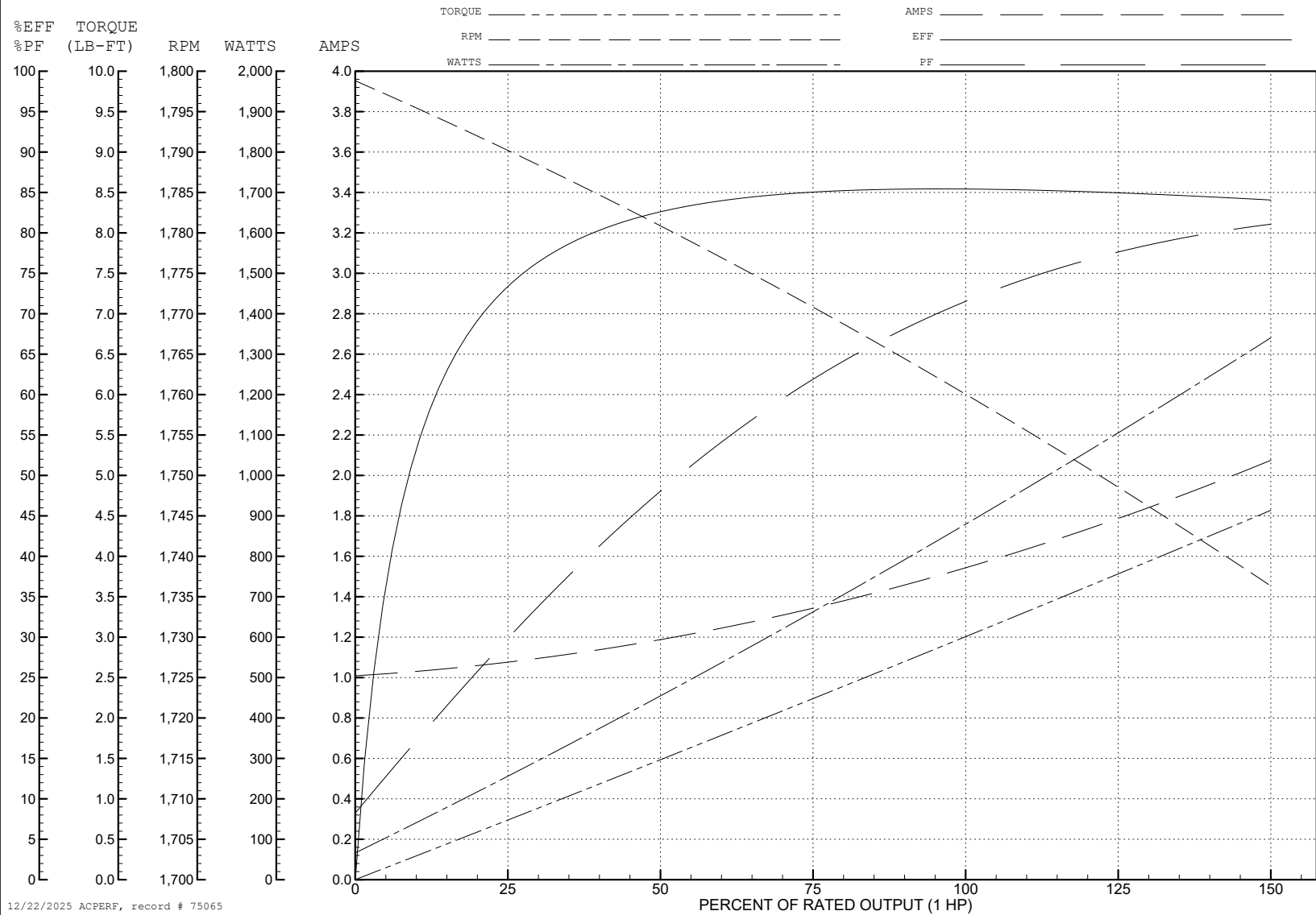
ABB Motors and Mechanical Inc.

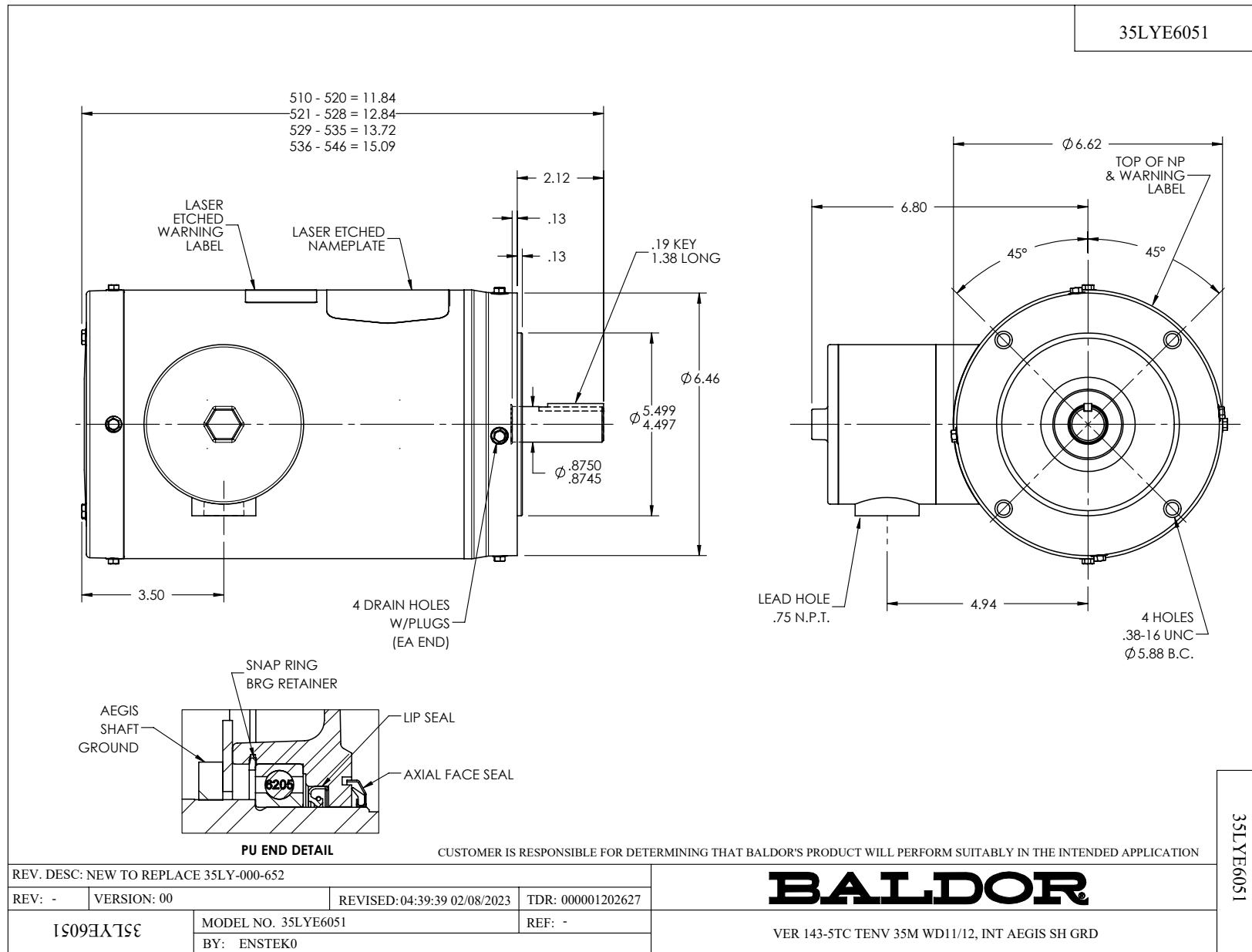
WINDING # 35WGW045

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1760 RPM 460 V 3522M

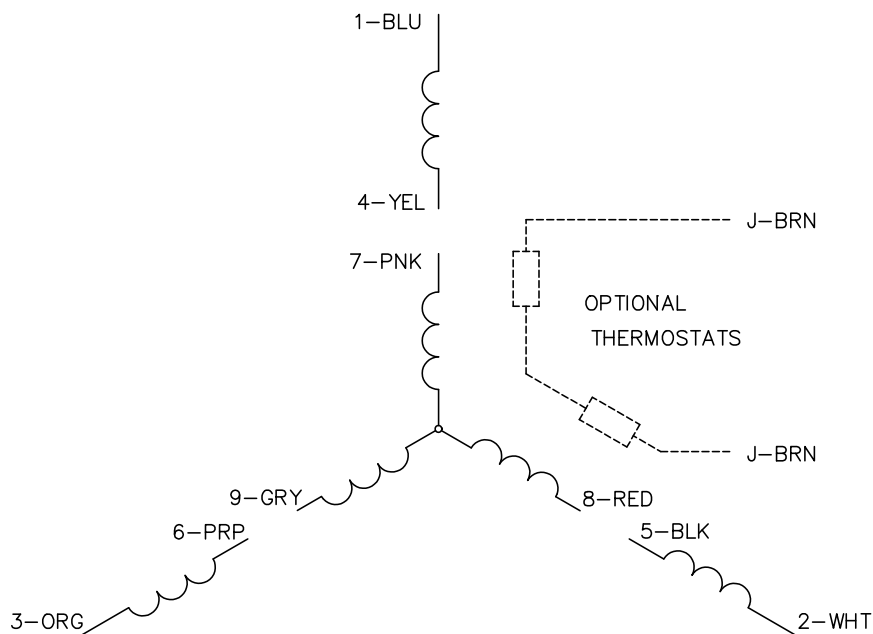
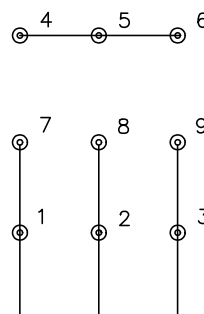
TORQUES (LB-FT): PO=13.4 PU=7.77 LR=9.5 LRA=13.5



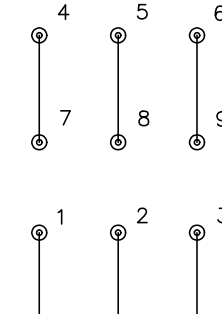




CD0005

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

S00000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005