

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **CESSWDM3550T**

**1.5HP,3500RPM,3PH,60HZ,143TC,3532M,TENV**

| Part Detail |       |                |       |             |          |               |            |
|-------------|-------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | M     | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | 3532M | Elec. Spec: | 35WGR929 | CD Diagram:   | CD0005     |
| Enclosure:  | TENV  | Mfg Plant:     |       | Mech. Spec: | 35WW513  | Layout:       | 35LYWW513  |
| Frame:      | 143TC | Mounting:      | F1    | Poles:      | 02       | Created Date: | 02-17-2010 |
| Base:       | RG    | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 02-03-2017 |
| Leads:      | 9#18  |                |       |             |          | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1953A01

|              |               |  |    |      |  |                |     |      |       |  |
|--------------|---------------|--|----|------|--|----------------|-----|------|-------|--|
| CAT.NO.      | CESSWDM3550T  |  |    |      |  |                |     |      |       |  |
| SPEC.        | 35WW513R929G1 |  |    |      |  |                |     |      |       |  |
| HP           | 1.5           |  |    |      |  |                |     |      |       |  |
| VOLTS        | 208-230/460   |  |    |      |  |                |     |      |       |  |
| AMP          | 3.7-3.6/1.8   |  |    |      |  |                |     |      |       |  |
| RPM          | 3500          |  |    |      |  |                |     |      |       |  |
| FRAME        | 143TC         |  |    |      |  | HZ             |     | 60   |       |  |
| SER.F.       | 1.15          |  |    | CODE |  | M              | DES |      | B     |  |
| NEMA-NOM-EFF | 85.5          |  |    | PF   |  | 90             |     |      | CLASS |  |
| RATING       | 40C AMB-CONT  |  |    |      |  |                |     |      |       |  |
| CC           |               |  |    |      |  | USABLE AT 208V |     | 3.7  |       |  |
| DE           | 6205          |  |    |      |  | ODE            |     | 6203 |       |  |
| ENCL         | TENV          |  | SN |      |  |                |     |      |       |  |
|              |               |  |    |      |  |                |     |      |       |  |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA191052    | SA 35WW513R929G1                         | 1.000 EA |
| RA178716    | RA 35WW513R929G1                         | 1.000 EA |
| NS2512A01   | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 35CB1004A09 | 35 CB .75 N.P.T @ 6:00                   | 1.000 EA |
| 35GS1041    | 35 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,  | 1.000 EA |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 EA |
| HA5027A02   | HA4054 T-DRAIN X2 BAGGED WITH LABEL      | 1.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 35EP1913A01 | FRONT TENV 203 BRG NO GRSR S/P 9-2 (STAI | 1.000 EA |
| HW4500A33   | 1/8 NPT STAINLESS,HOLO-KROME #13002,PRES | 3.000 EA |
| HW5100A03   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35EP1914A02 | PU EP FOR LOCKED 6205 BRG                | 1.000 EA |
| HW4500A33   | 1/8 NPT STAINLESS,HOLO-KROME #13002,PRES | 3.000 EA |
| 12XN1032S22 | 10-32 X 1 3/8 SLOT HEX, STAINLESS STEEL  | 2.000 EA |
| HA1049A01   | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 2.000 EA |
| HA1049A01   | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 4.000 EA |
| 35CB4515    | 35 CB LID #304 STAINLESS STEEL           | 1.000 EA |
| 36GS3008SP  | WHITE NEOPREME KO BOX LID GASKET         | 1.000 EA |
| 59XN0832S07 | 8/32 X 7/16 HX WS HD SER X               | 4.000 EA |
| HW4606A02   | JM CLIPPER/SEAL (LWE-0938-1624-AL23)     | 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 |
| MJ5001A02   | 732 CL SEALANT 3 OZ DIXIE BEARING 289100 | 0.001 EA |
| MJ1000A02   | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HW3001B01              | BRASS CUP WASHER, FOR #8 SCREW           | 1.000 EA |
| HA3100S19              | THRUBOLT,10X32 - 9.812 SS X              | 4.000 EA |
| 36PA1000               | PKG GRP, PRINT      PK1016A06            | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 16029 - Typical performance - not guaranteed values

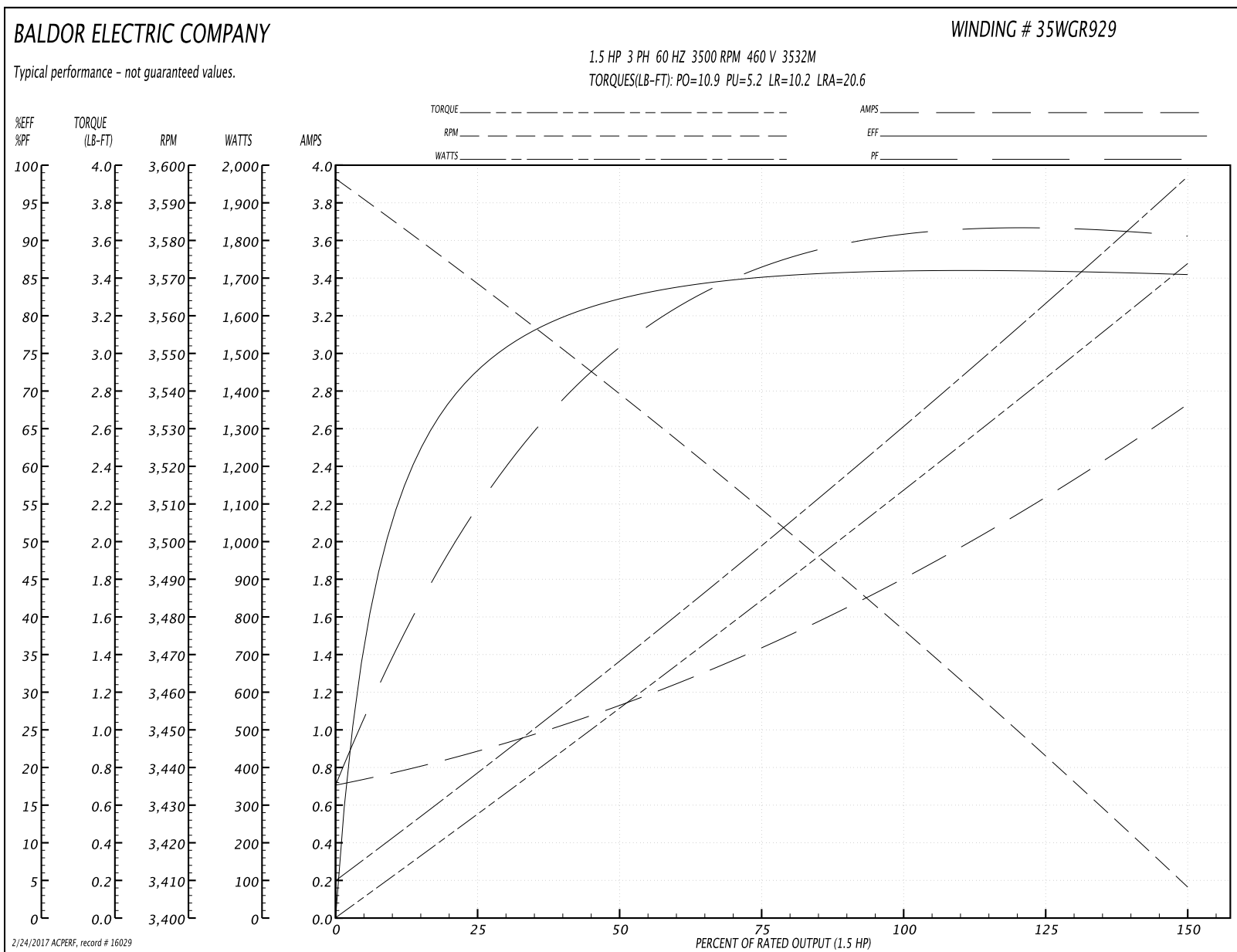
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGR929-R002 | <b>Type:</b> 3532M | <b>Enclosure:</b> TENV |
|-------------------------------|--------------------|------------------------|

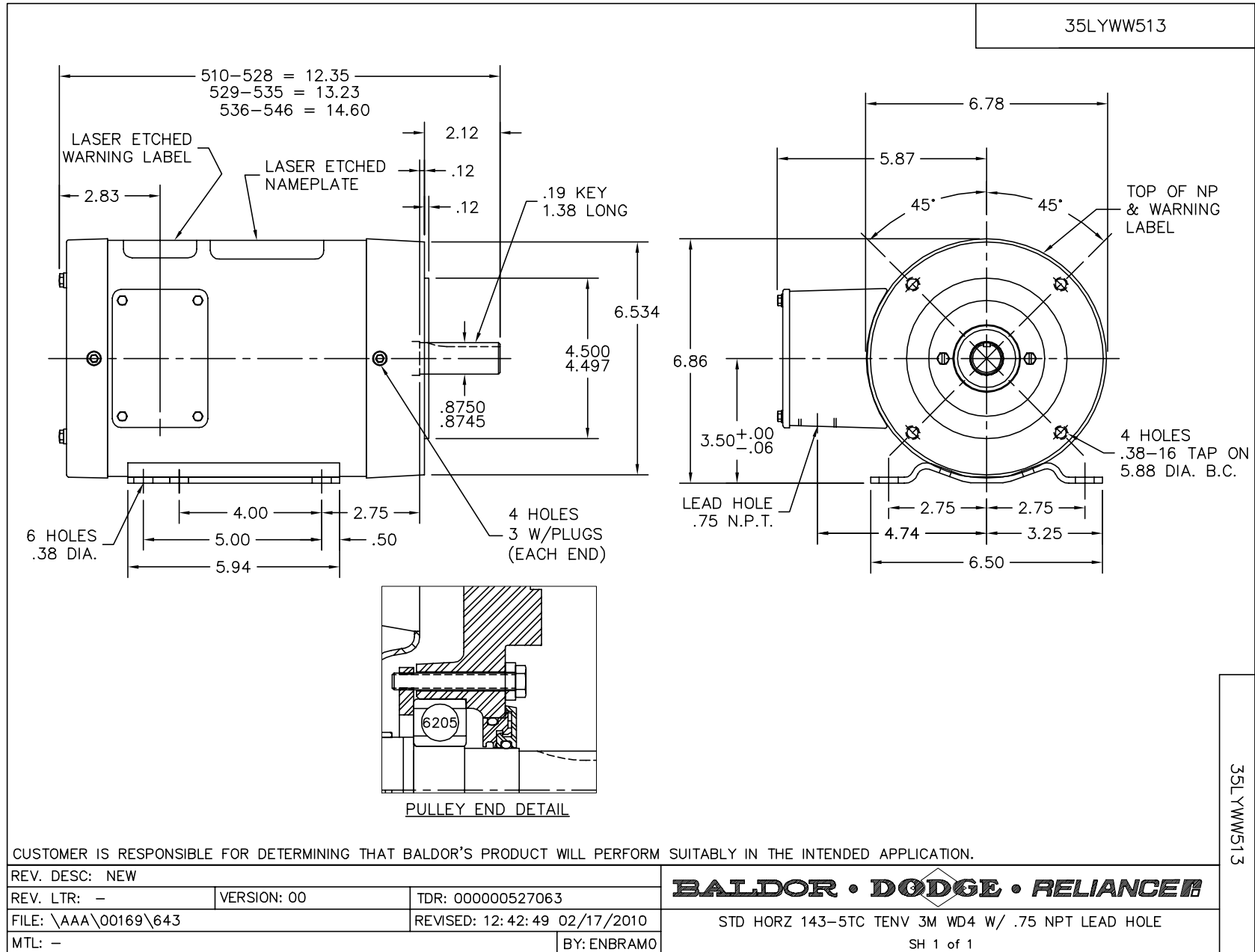
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                           |
|-----------------------|--------------|--------------|----|------------------------------------------|---------------------------|
| Rated Output (HP)     | 1.5          |              |    | Full Load Torque                         | 2.31 LB-FT                |
| Volts                 | 208-230/460  |              |    | Start Configuration                      | direct on line            |
| Full Load Amps        | 3.7-3.6/1.8  |              |    | Breakdown Torque                         | 10.9 LB-FT                |
| R.P.M.                | 3500         |              |    | Pull-up Torque                           | 5.2 LB-FT                 |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 10.2 LB-FT                |
| NEMA Design Code      | B            | KVA Code     | M  | Starting Current                         | 20.6 A                    |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 0.694 A                   |
| NEMA Nom. Eff.        | 85.5         | Power Factor | 90 | Line-line Res. @ 25°C                    | 7.64 Ω                    |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 78°C                      |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 90°C                      |
|                       |              |              |    | Locked-rotor Power Factor                | 46                        |
|                       |              |              |    | Rotor inertia                            | 0.0885 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    | 55    | 77   | 86   | 92   | 93   | 90   | 93   |
| Efficiency      | 73.8  | 82.3 | 85.2 | 86.1 | 85.9 | 85.5 | 86   |
| Speed           | 3564  | 3536 | 3507 | 3476 | 3444 | 3406 | 3457 |
| Line amperes    | 0.907 | 1.15 | 1.48 | 1.81 | 2.23 | 2.75 | 2.06 |

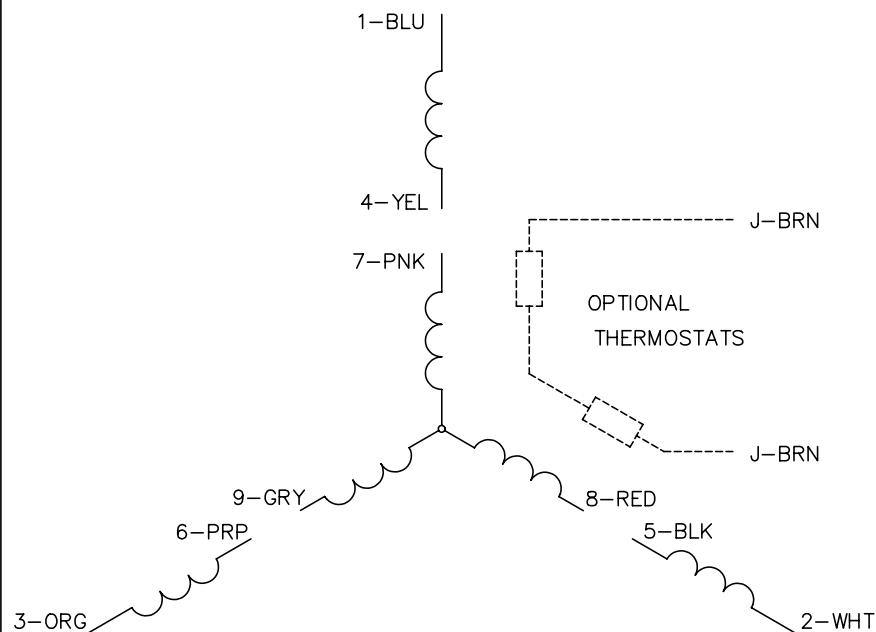
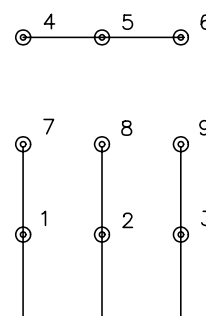
## Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values



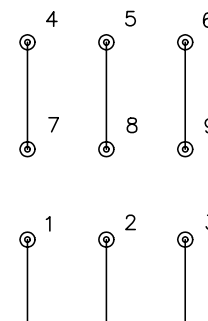




CD0005

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