

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EM2535T-CI**

**30HP,1770RPM,3PH,60HZ,286T,1050M,OPEN,F1**

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| Part Detail       |              |                |            |                         |          |               |            |        |      |
|-------------------|--------------|----------------|------------|-------------------------|----------|---------------|------------|--------|------|
| Revision:         | A            | Status:        | PRD/A      | Change #:               |          | Proprietary:  | No         |        |      |
| Type:             | AC           | Prod. Type:    | 1050M      | Elec. Spec:             | 10WGY784 | CD Diagram:   |            |        |      |
| Enclosure:        | OPEN         | Mfg Plant:     |            | Mech. Spec:             | 10D01    | Layout:       |            |        |      |
| Frame:            | 286T         | Mounting:      | F1         | Poles:                  | 04       | Created Date: | 06-18-2010 |        |      |
| Base:             | RG           | Rotation:      | R          | Insulation:             | F        | Eff. Date:    | 07-27-2010 |        |      |
| Leads:            | 9#10         | Literature:    |            | Elec. Diagram:          |          | Replaced By:  |            |        |      |
| Nameplate NP2138L |              |                |            |                         |          |               |            |        |      |
| CAT.NO.           | EM2535T-CI   | P/N            |            | ENCLOSURE               |          |               | OPEN       |        |      |
| SPEC.             | 10D001Y784G1 | CC             | 010A       | FRAME                   |          |               | 286T       | S/N    |      |
| HP                | 30           | CLASS          | F          | HZ                      |          |               | 60         |        |      |
| RPM               | 1770         | PH             | 3          | DES                     |          |               | B          |        |      |
| VOLT              | 230/460      | KVA-CODE       | F          | ODE BRG                 |          |               | 6309       | DE BRG | 6310 |
| AMP               | 70/35        | USABLE AT 208V | 74         |                         |          |               |            |        |      |
| RATING            | 40C AMB-CONT | GREASE         | POLYREX EM |                         |          |               |            |        |      |
| NEMA-NOM-EFF      | 94.1         | PF             | 85         | SER.F.                  |          |               | 1.15       |        |      |
|                   |              |                |            |                         |          |               |            |        |      |
| HTR-VOLTS         |              | HTR-AMPS       |            | MAX. SPACE HEATER TEMP. |          |               |            |        |      |

| Parts List     |                                          |          |
|----------------|------------------------------------------|----------|
| Part Number    | Description                              | Quantity |
| SA198440       | SA 10D001Y784G1                          | 1.000 EA |
| RA185807       | RA 10D001Y784G1                          | 1.000 EA |
| S/P107-000-004 | SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E | 1.000 EA |
| 10CB3000SP     | STD KO BOX MODEL 310,312,314 MTRS W/2.00 | 1.000 EA |
| 10XN3118K12    | 5/16-18 X .75 GRADE 5, ZINC PLATED       | 4.000 EA |
| HW1001A31      | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 EA |
| 10AD2000A02    | AIR DEFLECTOR, STAT                      | 1.000 EA |
| 51XF1032A08    | 10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED | 3.000 EA |
| 10AD2000A02    | AIR DEFLECTOR, STAT                      | 1.000 EA |
| 51XF1032A08    | 10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED | 3.000 EA |
| WD1000B16      | KPA-4C BURNDY TERMINAL                   | 1.000 EA |
| 51XF2520A08    | SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L | 1.000 EA |
| 10EP1200A04    | ENDPLATE, MACH                           | 1.000 EA |
| 10XN3816K76    | 3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5  | 4.000 EA |
| HW1001A38      | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| HW5100A11      | W3917-042 WVY WSHR (WB)                  | 1.000 EA |
| 10XN3118K32    | 5/16-18 X 2.00" HEX HD, GRADE 5          | 4.000 EA |
| HW1001A31      | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 EA |
| 10EP1200A03    | ENDPLATE, MACH PU                        | 1.000 EA |
| 10XN3816K76    | 3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5  | 4.000 EA |
| HW1001A38      | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| 10XN3118K32    | 5/16-18 X 2.00" HEX HD, GRADE 5          | 4.000 EA |
| HW1001A31      | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 EA |
| 10CB3500SP     | CONDUIT BOX LID, CAST                    | 1.000 EA |

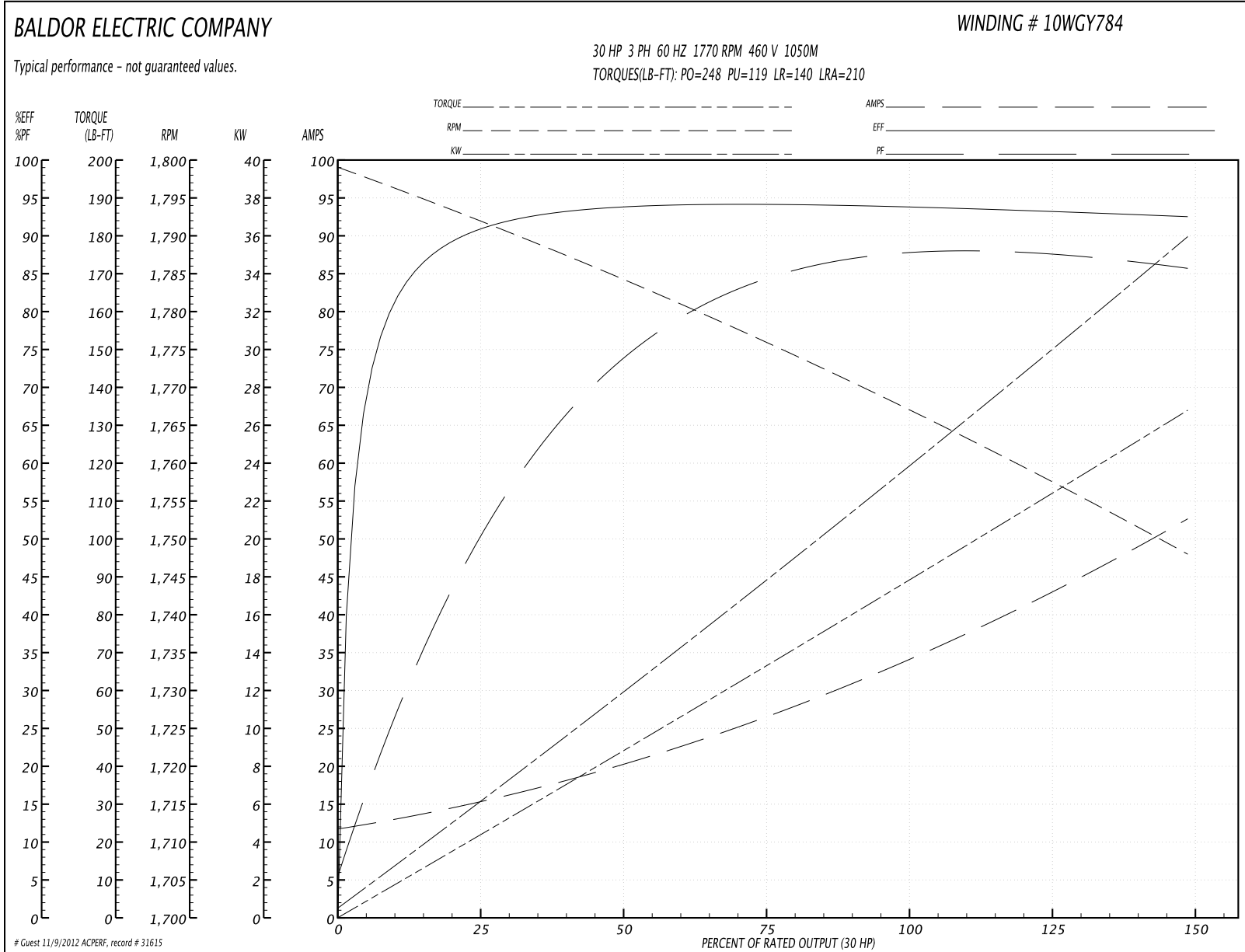
**Parts List (continued)**

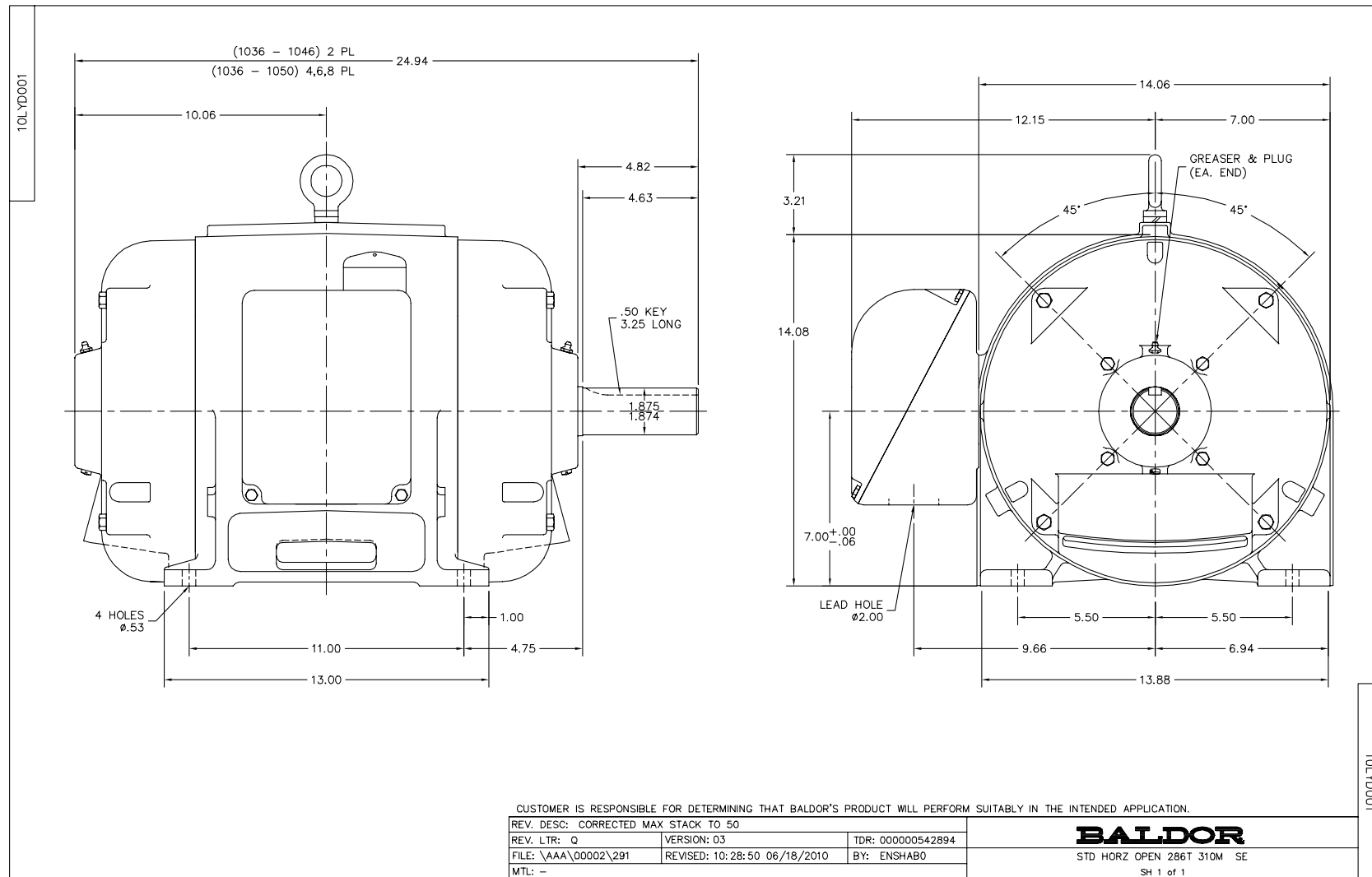
| <b>Part Number</b> | <b>Description</b>                       | <b>Quantity</b> |
|--------------------|------------------------------------------|-----------------|
| 51XW2520A12        | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 4.000 EA        |
| HW2501H28          | KEY, 1/2 SQ X 3.250                      | 1.000 EA        |
| LB1115             | LABEL,LIFTING DEVICE                     | 1.000 EA        |
| LB5040             | INSTRUCTION TAG, AC & DC                 | 1.000 EA        |
| HW4500A03          | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA        |
| HW4500A20          | 1/8NPT SL PIPE PLUG                      | 1.000 EA        |
| HA4051A00          | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA        |
| MJ1000A75          | GREASE, POLYREX EM EXXON                 | 0.130 LB        |
| HW4500A03          | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA        |
| HW4500A20          | 1/8NPT SL PIPE PLUG                      | 1.000 EA        |
| HA4051A00          | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA        |
| MG1000Y03          | WILKO 689.710 GOLD PAINT SUPER E         | 0.070 GA        |
| 85XU0407A04        | #4-7 X 1/4 DRIVE PIN                     | 4.000 EA        |
| LB1119             | WARNING LABEL                            | 1.000 EA        |
| LB1125C02          | SUPER-E (STOCK CTN LABEL SUPER-E WITH FL | 4.000 EA        |
| LB1357             | ENERGY GUIDE LABEL (BOX LABEL)           | 1.000 SH        |
| LC0181             | CONNECTION LABEL                         | 1.000 EA        |
| NP2138L            | ALUM SUPER-E UL CSA-EEV PREM CC (300     | 1.000 EA        |
| 10PA1000           | PACKAGING GROUP COMBINED PRINT PK1023A06 | 1.000 EA        |

**Performance Data at 460V, 60Hz, 30.0HP (Typical performance - Not guaranteed values)**

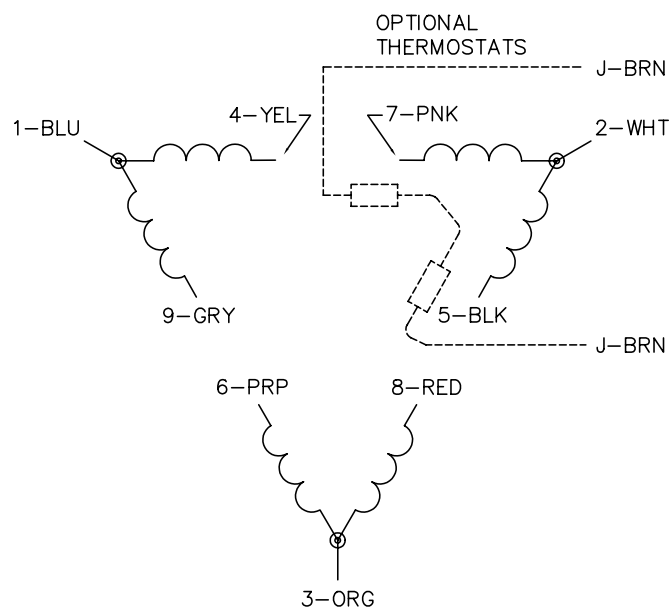
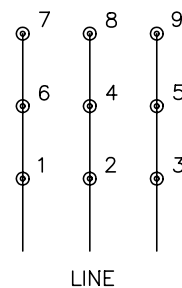
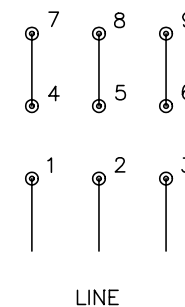
| General Characteristics  |        |                                 |        |                      |        |             |        |
|--------------------------|--------|---------------------------------|--------|----------------------|--------|-------------|--------|
| Full Load Torque:        |        | 89.0 LB-FT                      |        | Start Configuration: |        | DOL         |        |
| No-Load Current:         |        | 12.3 Amps                       |        | Break-Down Torque:   |        | 248.0 LB-FT |        |
| Line-line Res. @ 25°C.:  |        | 0.254 Ohms A Ph / 0.0 Ohms B Ph |        | Pull-Up Torque:      |        | 119.0 LB-FT |        |
| Temp. Rise @ Rated Load: |        | 32 C                            |        | Locked-Rotor Torque: |        | 140.0 LB-FT |        |
| Temp. Rise @ S.F. Load:  |        | 40 C                            |        | Starting Current:    |        | 210.0 Amps  |        |
| Load Characteristics     |        |                                 |        |                      |        |             |        |
| % of Rated Load          | 25     | 50                              | 75     | 100                  | 125    | 150         | S.F.   |
| Power Factor:            | 54.0   | 75.0                            | 84.0   | 86.0                 | 87.0   | 86.0        | 87.0   |
| Efficiency:              | 90.8   | 93.8                            | 94.2   | 94.1                 | 93.1   | 92.6        | 93.5   |
| Speed:                   | 1792.0 | 1784.0                          | 1776.0 | 1767.0               | 1758.0 | 1748.0      | 1762.0 |
| Line Amperes:            | 14.6   | 20.0                            | 26.8   | 34.5                 | 42.8   | 52.3        | 39.5   |

## Performance Graph at 460V, 60Hz, 30.0HP Typical performance - Not guaranteed values





CD0180


 LOW VOLTAGE  
(2D)

 HIGH VOLTAGE  
(1D)


## 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: C

BY: JLP

REVISED: 01/21/99 2:28

TDR: 0171435

0810D0

FILE: AAA00005148

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS, DELTA CONNECTION

CD0180