

# **BALDOR**® • **RELIANCE**

## **Product Information Packet**

# **ECTM4115T**

**50 AIR OVERHP,1775RPM,3PH,60HZ,326T,1272**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | D    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 1272M | Elec. Spec: | 12WGY141 | CD Diagram:   | CD0180     |
| Enclosure:  | TEAO | Mfg Plant:     |       | Mech. Spec: | 12H727   | Layout:       | 12LYH727   |
| Frame:      | 326T | Mounting:      | F1    | Poles:      | 04       | Created Date: | 08-17-2015 |
| Base:       | RG   | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 12-15-2015 |
| Leads:      | 9#8  |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

|                          |                   |  |  |      |     |      |    |  |                |   |
|--------------------------|-------------------|--|--|------|-----|------|----|--|----------------|---|
| <b>Nameplate NP1260E</b> |                   |  |  |      |     |      |    |  |                |   |
| CAT.NO.                  | ECTM4115T         |  |  |      |     |      |    |  |                |   |
| SPEC.                    | 12H727Y141G1      |  |  |      |     |      |    |  |                |   |
| HP                       | 50 AIR OVER       |  |  |      |     |      |    |  |                |   |
| VOLTS                    | 230/460           |  |  |      |     |      |    |  |                |   |
| AMP                      | 116/58            |  |  |      |     |      |    |  |                |   |
| RPM                      | 1775              |  |  |      |     |      |    |  |                |   |
| FRAME                    | 326T              |  |  |      |     | HZ   | 60 |  | PH             | 3 |
| SER.F.                   | 1.15              |  |  | CODE | H   | DES  | A  |  | CL             | F |
| NEMA-NOM-EFF             | 94.5              |  |  | PF   | 85  |      |    |  |                |   |
| RATING                   | 40C AMB-CONT      |  |  |      |     |      |    |  |                |   |
| CC                       |                   |  |  |      |     |      |    |  | USABLE AT 208V |   |
| DE                       | 6312              |  |  |      | ODE | 6311 |    |  |                |   |
| ENCL                     | TEAO              |  |  | SN   |     |      |    |  |                |   |
|                          | 2050 FPM @ 520CFM |  |  |      |     |      |    |  |                |   |

| Parts List     |  |          |
|----------------|--|----------|
| Part Number    | Description                              | Quantity |
| SA306342       | SA 12H727Y141G1                          | 1.000 EA |
| RA293587       | RA 12H727Y141G1                          | 1.000 EA |
| S/P107-000-004 | SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E | 1.000 EA |
| 10CB1000A131E  | SPL KOBX W/E-COAT                        | 1.000 EA |
| 09GS1010       | GASKET, DWG, LEADWIRE SEPERATOR          | 1.000 EA |
| 10XN3118K16    | 5/16-18 X 1' GRADE #5, STL, ZINC PLATE   | 4.000 EA |
| HW1001A31      | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 EA |
| HA4044A00      | PLUG,PIPE 1/8 NPT PLASTIC SQUARE HEAD    | 2.000 EA |
| WD1000B16      | T&B CX70TN TERMINAL                      | 1.000 EA |
| 10XN2520K08    | 1/4-20 X .50 GRADE #5, STL, ZINC PLATE   | 1.000 EA |
| HW1001A25      | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 1.000 EA |
| 12EP1107B02P   | FREP TEFC 324-6T; EPOXY PRI              | 1.000 EA |
| 10XN5013K32    | 1/2-13 X 2.00" HEX HD GRD 5 (20051)      | 4.000 EA |
| HW1001A50      | LOCKWASHER 1/2, ZINC PLT.,879 OD, .509 I | 4.000 EA |
| HA7204         | "L" SHAPE LIFTING LUG FOR 42 FRAME MOTOR | 2.000 EA |
| HW5100A13      | W4627-047 WVY WSHER                      | 1.000 EA |
| 12EP1106A91E   | PUEP,MACH W/E-COAT, LIP SEAL, LESS GRSRS | 1.000 EA |
| HW4600B37      | SEAL 2.250 X 3.000 X .375 SINGLE LIP     | 1.000 EA |
| HW4600G55      | DOME SLINGER, 7.125 OD X 2.120/2.060 ID  | 1.000 EA |
| 10XN5013K28    | 1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD   | 4.000 EA |
| HW1001A50      | LOCKWASHER 1/2, ZINC PLT.,879 OD, .509 I | 4.000 EA |
| 10XN3118K40    | 5/16-18 X 2.50" HEX HD, GRADE 5          | 4.000 EA |
| 10CB1503A01P   | CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR | 1.000 EA |
| 14GS1003       | GASKET CONDUIT BOX LID, NEOP             | 1.000 EA |

| Parts List (continued) |  |          |
|------------------------|--|----------|
| Part Number            | Description                              | Quantity |
| 10XN2520K16            | 1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P   | 4.000 EA |
| HW1001A25              | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| HA1005A06              | SLINGER, OD 3.62, ID 2.15                | 1.000 EA |
| HW2501H33              | KEY, 1/2 SQ X 3.875                      | 1.000 EA |
| MJ5001A27              | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.031 QT |
| MJ5001A14              | DYNAPRO SEAL, CP MOTORS VC#2508050 (603  | 0.030 EA |
| MJ5002A01              | SILICON RUBBER SEALANT, 732CL 10.3 OZ TU | 0.025 EA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| LB1002N                | LABEL,MARINE DUTY (ON ROLLS)             | 1.000 EA |
| LB1182                 | WARNING LABEL FOR MOTORS WITH EYENUTS    | 2.000 EA |
| HA4054                 | SHORT T-DRAIN FITTING, .125" N.P.T.      | 3.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.200 LB |
| HA4054                 | SHORT T-DRAIN FITTING, .125" N.P.T.      | 3.000 EA |
| MG1025G05              | WILKOFAS, 789.227, MED. GRAY CHAR. MET.  | 0.080 GA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LC0181                 | CONNECTION LABEL                         | 1.000 EA |
| NP1260E                | SS CP SUPER-E UL CSA CC                  | 1.000 EA |
| 12PA1000               | PACKAGING GROUP PRINT PK1024A06          | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |
| LB1417                 | LABEL CARTON 6X4 PERFORATED BLANK ROLLS  | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 40405 - Typical performance - not guaranteed values

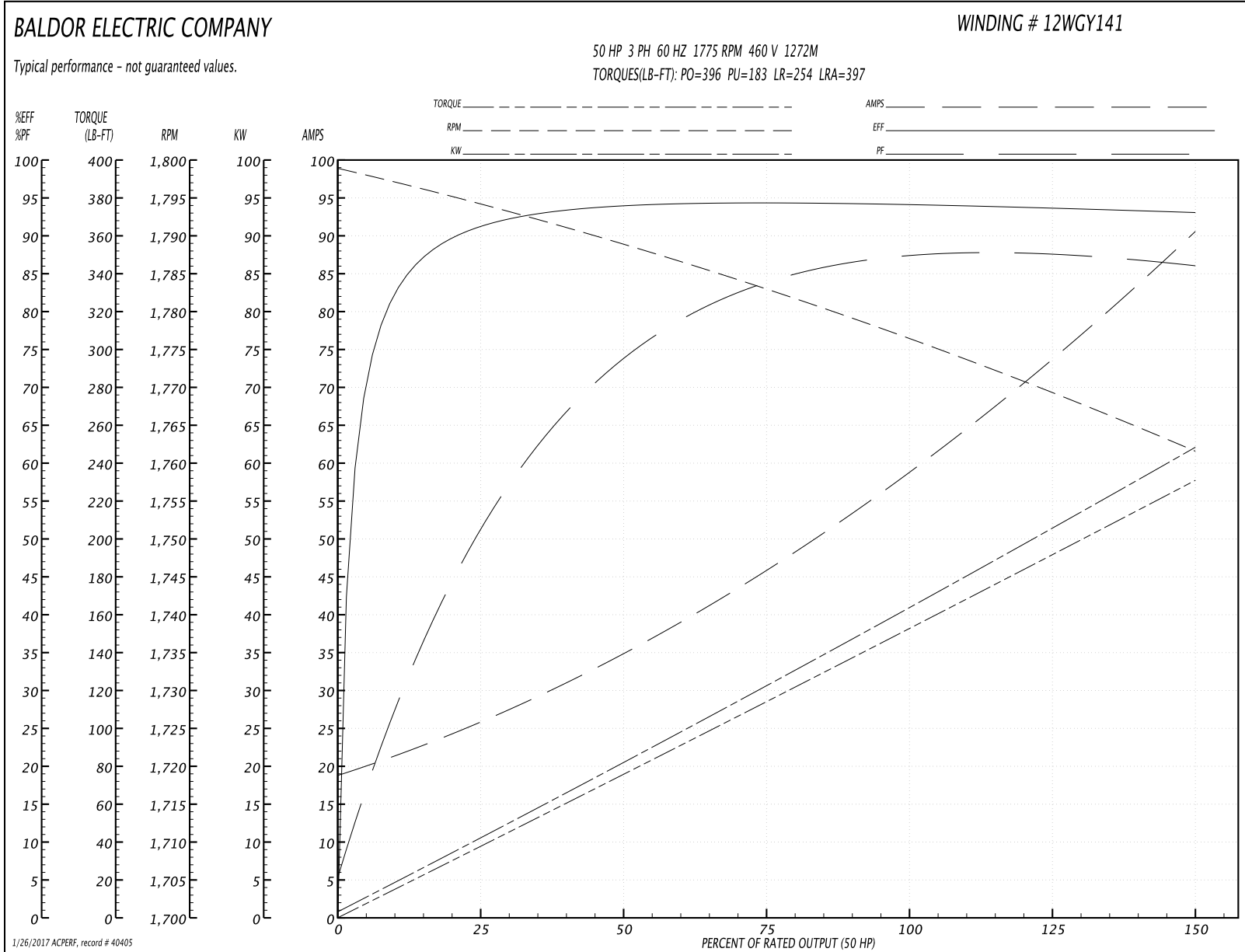
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 12WGY141-R013 | <b>Type:</b> 1272M | <b>Enclosure:</b> TEAO |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                         |
|-----------------------|--------------|--------------|----|--|-------------------------|
| Rated Output (HP)     | 50 AIR OVER  |              |    | Full Load Torque                         | 147 LB-FT               |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line          |
| Full Load Amps        | 116/58       |              |    | Breakdown Torque                         | 396 LB-FT               |
| R.P.M.                | 1775         |              |    | Pull-up Torque                           | 183 LB-FT               |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 254 LB-FT               |
| NEMA Design Code      | A            | KVA Code     | G  | Starting Current                         | 397 A                   |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 19.8 A                  |
| NEMA Nom. Eff.        | 94.5         | Power Factor | 85 | Line-line Res. @ 25°C                    | 0.10889 Ω               |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 64°C                    |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 79°C                    |
|                       |              |              |    | Locked-rotor Power Factor                | 26                      |
|                       |              |              |    | Rotor inertia                            | 9.59 LB-FT <sup>2</sup> |

Load Characteristics 460 V, 60 Hz, 50 HP

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 53     | 74     | 83     | 86     | 87     | 87     | 87   |
| Efficiency      | 91.3   | 94.3   | 94.8   | 94.6   | 94     | 93.1   | 94.2 |
| Speed           | 1794.5 | 1789.3 | 1783.5 | 1777.5 | 1770.7 | 1761.5 | 1773 |
| Line amperes    | 24.2   | 33.5   | 44.7   | 57.6   | 71.5   | 90     | 65.9 |

Performance Graph at 460V, 60Hz, 50.0HP Typical performance - Not guaranteed values





CD0180

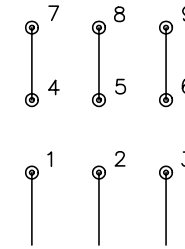


LOW VOLTAGE  
(2D)



LINE

HIGH VOLTAGE  
(1D)



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: 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