

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EJMM3615T**

**5HP,1750RPM,3PH,60HZ,184JM,3642M,TEFC,F1**

## Part Detail

|             |        |             |            |             |        |               |            |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision:   | F      | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No         |
| Type:       | AC     | Elec. Spec: | 36WGS268   | CD Diagram: | CD0005 | Mfg Plant:    |            |
| Mech. Spec: | 36H017 | Layout:     | 36LYH017   | Poles:      | 04     | Created Date: | 07-30-2010 |
| Base:       | RG     | Eff. Date:  | 10-16-2015 | Leads:      | 9#16   |               |            |

## Specs

|                                 |                         |                                |                       |
|---------------------------------|-------------------------|--------------------------------|-----------------------|
| Catalog Number:                 | EJMM3615T               | Heater Indicator:              | No Heater             |
| Enclosure:                      | TEFC                    | Insulation Class:              | F                     |
| Frame:                          | 184JM                   | Inverter Code:                 | Inverter Ready        |
| Frame Material:                 | Steel                   | KVA Code:                      | J                     |
| Output @ Frequency:             | 5.000 HP @ 60 HZ        | Lifting Lugs:                  | Standard Lifting Lugs |
| Synchronous Speed @ Frequency:  | 1800 RPM @ 60 HZ        | Locked Bearing Indicator:      | Locked Bearing        |
| Voltage @ Frequency:            | 460.0 V @ 60 HZ         | Motor Lead Quantity/Wire Size: | 9 @ 16 AWG            |
|                                 | 230.0 V @ 60 HZ         | Motor Lead Exit:               | Ko Box                |
| XP Class and Group:             | None                    | Motor Lead Termination:        | Flying Leads          |
| XP Division:                    | Not Applicable          | Motor Type:                    | 3642M                 |
| Agency Approvals:               | UR                      | Mounting Arrangement:          | F1                    |
|                                 | CSA EEV                 | Power Factor:                  | 78                    |
|                                 | CSA                     | Product Family:                | General Purpose       |
| Auxillary Box:                  | No Auxillary Box        | Pulley End Bearing Type:       | Ball                  |
| Auxillary Box Lead Termination: | None                    | Pulley Face Code:              | C-Face                |
| Base Indicator:                 | Rigid                   | Pulley Shaft Indicator:        | Tapped & Key          |
| Bearing Grease Type:            | Polyrex EM (-20F +300F) | Rodent Screen:                 | None                  |
| Blower:                         | None                    | Shaft Extension Location:      | Pulley End            |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Current @ Voltage:</b>             | 13.400 A @ 230.0 V        | <b>Shaft Ground Indicator:</b>     | No Shaft Grounding  |
|                                       | 13.900 A @ 208.0 V        | <b>Shaft Rotation:</b>             | Reversible          |
|                                       | 6.700 A @ 460.0 V         | <b>Shaft Slinger Indicator:</b>    | Shaft Slinger       |
| <b>Design Code:</b>                   | B                         | <b>Speed Code:</b>                 | Single Speed        |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Motor Standards:</b>            | NEMA                |
| <b>Duty Rating:</b>                   | CONT                      | <b>Starting Method:</b>            | Direct on line      |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Thermal Device - Winding:</b>   | None                |
| <b>Front Face Code:</b>               | Standard                  | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Front Shaft Indicator:</b>         | None                      | <b>Winding Thermal 1:</b>          | None                |
|                                       |                           | <b>Winding Thermal 2:</b>          | None                |

## Nameplate NP3441L

|                            |              |  |  |      |    |    |     |   |                |      |   |
|----------------------------|--------------|--|--|------|----|----|-----|---|----------------|------|---|
| CAT.NO.                    | EJMM3615T    |  |  |      |    |    |     |   |                |      |   |
| SPEC.                      | 36H017S268G1 |  |  |      |    |    |     |   |                |      |   |
| HP                         | 5            |  |  |      |    |    |     |   |                |      |   |
| VOLTS                      | 230/460      |  |  |      |    |    |     |   |                |      |   |
| AMP                        | 13.4/6.7     |  |  |      |    |    |     |   |                |      |   |
| RPM                        | 1750         |  |  |      |    |    |     |   |                |      |   |
| FRAME                      | 184JM        |  |  |      |    | HZ | 60  |   |                | PH   | 3 |
| SER.F.                     | 1.15         |  |  | CODE | J  |    | DES | B |                | CL   | F |
| NEMA-NOM-EFF               | 89.5         |  |  | PF   | 78 |    |     |   |                |      |   |
| RATING                     | 40C AMB-CONT |  |  |      |    |    |     |   |                |      |   |
| CC                         | 010A         |  |  |      |    |    |     |   | USABLE AT 208V | 13.9 |   |
| DE                         | 6207         |  |  |      |    |    |     |   | ODE            | 6205 |   |
| ENCL                       | TEFC         |  |  | SN   |    |    |     |   |                |      |   |
| VPWM INVERTER READY        |              |  |  |      |    |    |     |   |                |      |   |
| CT6-60H(10:1)VT3-60H(20:1) |              |  |  |      |    |    |     |   |                |      |   |
|                            |              |  |  |      |    |    |     |   |                |      |   |

**AC Induction Motor Performance Data**

Record # 35063 - Typical performance - not guaranteed values

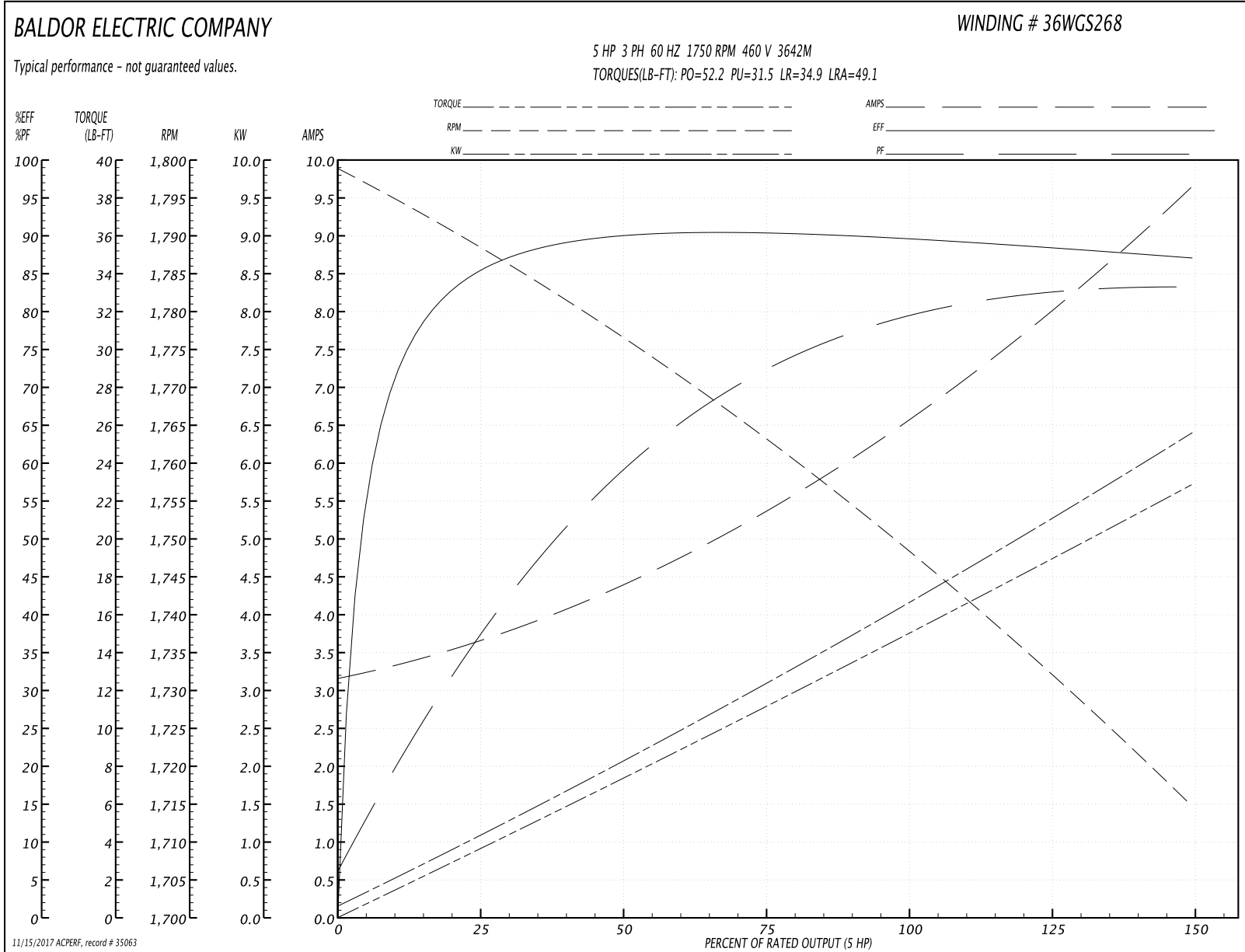
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 36WGS268-R016 | <b>Type:</b> 3642M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

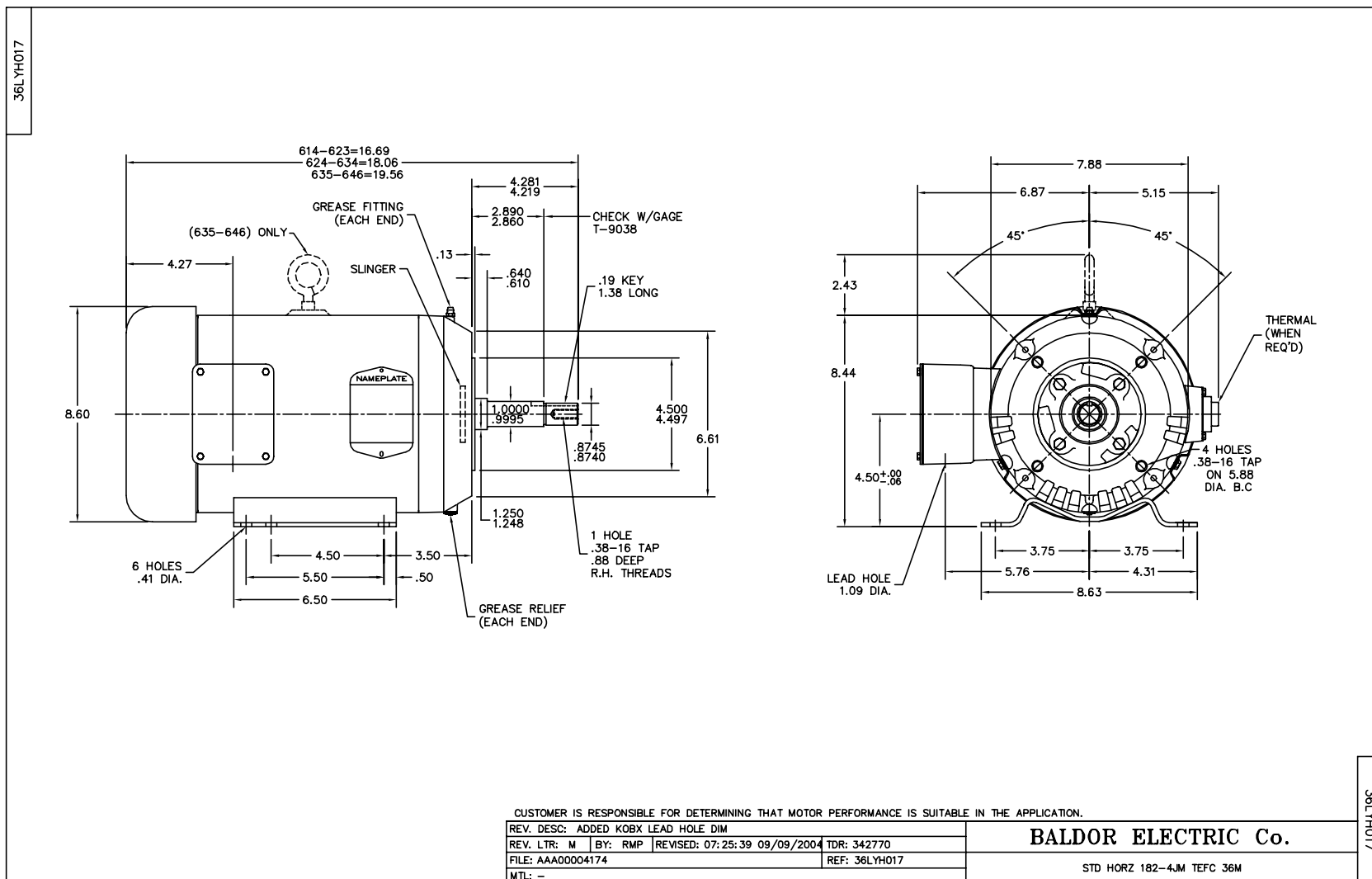
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                          |
|-----------------------|--------------|--------------|----|------------------------------------------|--------------------------|
| Rated Output (HP)     | 5            |              |    | Full Load Torque                         | 14.9 LB-FT               |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line           |
| Full Load Amps        | 13.4/6.7     |              |    | Breakdown Torque                         | 52.2 LB-FT               |
| R.P.M.                | 1750         |              |    | Pull-up Torque                           | 31.5 LB-FT               |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 34.9 LB-FT               |
| NEMA Design Code      | B            | KVA Code     | J  | Starting Current                         | 49.1 A                   |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 3.24 A                   |
| NEMA Nom. Eff.        | 89.5         | Power Factor | 78 | Line-line Res. @ 25°C                    | 2.27 Ω                   |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 77°C                     |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 93°C                     |
|                       |              |              |    | Locked-rotor Power Factor                | 39.8                     |
|                       |              |              |    | Rotor inertia                            | 0.391 LB-FT <sup>2</sup> |

**Load Characteristics 460 V, 60 Hz, 5 HP**

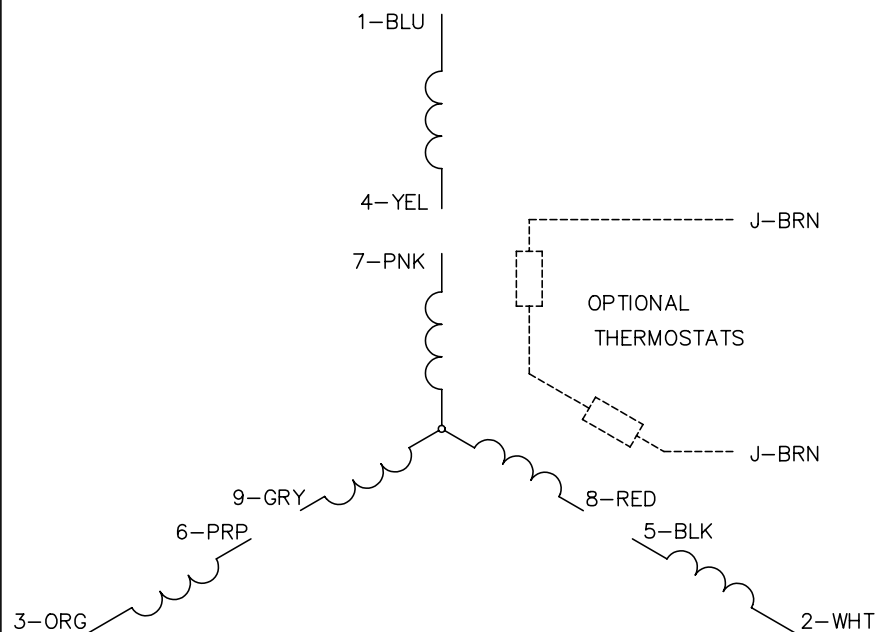
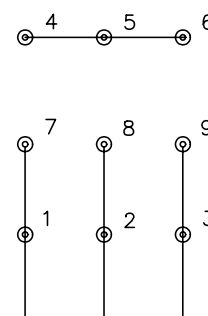
|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 39   | 60   | 72   | 78   | 83   | 83   | 81   |
| Efficiency      | 85   | 89.7 | 90.6 | 89.6 | 88.6 | 87   | 89   |
| Speed           | 1789 | 1776 | 1762 | 1750 | 1733 | 1714 | 1740 |
| Line amperes    | 3.55 | 4.31 | 5.43 | 6.65 | 7.94 | 9.64 | 7.42 |

## Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values

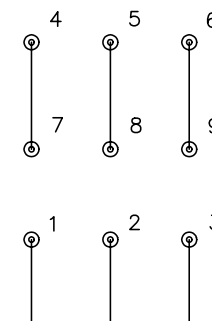




CD0005

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