

BALDOR® • RELIANCE 

Product Information Packet

EBM3614TY

2HP,1175RPM,3PH,60HZ,184T,3644M,TEFC,F1

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | C | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 36WGS917 | CD Diagram: | CD0005 | Mfg Plant: | |
| Mech. Spec: | 36A021 | Layout: | 36LYA021 | Poles: | 06 | Created Date: | 10-08-2015 |
| Base: | RG | Eff. Date: | 09-27-2016 | Leads: | 9#16 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|-------------------|
| Catalog Number: | EBM3614TY | Heater Indicator: | No Heater |
| Enclosure: | TEFC | Insulation Class: | F |
| Frame: | 184T | Inverter Code: | Inverter Ready |
| Frame Material: | Steel | KVA Code: | M |
| Output @ Frequency: | 2.000 HP @ 60 HZ | Lifting Lugs: | No Lifting Lugs |
| Synchronous Speed @ Frequency: | 1200 RPM @ 60 HZ | Locked Bearing Indicator: | No 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: | 3644M |
| Agency Approvals: | UR | Mounting Arrangement: | F1 |
| | CSA EEV | Power Factor: | 60 |
| | CSA | Product Family: | General Purpose |
| Auxillary Box: | No Auxillary Box | Pulley End Bearing Type: | Ball |
| Auxillary Box Lead Termination: | None | Pulley Face Code: | Standard |
| Base Indicator: | Rigid | Pulley Shaft Indicator: | Standard |
| Bearing Grease Type: | Polyrex EM (-20F +300F) | Rodent Screen: | None |
| Blower: | None | Shaft Extension Location: | Pulley End |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| Current @ Voltage: | 3.500 A @ 460.0 V | Shaft Ground Indicator: | No Shaft Grounding |
| | 7.000 A @ 208.0 V | Shaft Rotation: | Reversible |
| | 7.000 A @ 230.0 V | Shaft Slinger Indicator: | No Slinger |
| Design Code: | A | Speed Code: | Single Speed |
| Drip Cover: | No Drip Cover | Motor Standards: | NEMA |
| Duty Rating: | CONT | Starting Method: | Direct on line |
| Electrically Isolated Bearing: | Not Electrically Isolated | Thermal Device - Bearing: | None |
| Feedback Device: | NO FEEDBACK | Thermal Device - Winding: | None |
| Front Face Code: | Brake Mounting | Vibration Sensor Indicator: | No Vibration Sensor |
| Front Shaft Indicator: | None | Winding Thermal 1: | None |
| | | Winding Thermal 2: | None |

| Nameplate NP1259L | | | | | | | | | | | | | |
|-------------------|--------------|--|--|--|--|------|------|--|-----|----------------|---|----|---|
| CAT.NO. | EBM3614TY | | | | | | | | | | | | |
| SPEC. | 36A021S917G1 | | | | | | | | | | | | |
| HP | 2 | | | | | | | | | | | | |
| VOLTS | 230/460 | | | | | | | | | | | | |
| AMP | 7/3.5 | | | | | | | | | | | | |
| RPM | 1175 | | | | | | | | | | | | |
| FRAME | 184T | | | | | HZ | 60 | | | PH | 3 | | |
| SER.F. | 1.15 | | | | | CODE | M | | DES | A | | CL | F |
| NEMA-NOM-EFF | 88.5 | | | | | PF | 60 | | | | | | |
| RATING | 40C AMB-CONT | | | | | | | | | | | | |
| CC | 010A | | | | | | | | | USABLE AT 208V | 7 | | |
| DE | 6206 | | | | | ODE | 6205 | | | | | | |
| ENCL | TEFC | | | | | SN | | | | | | | |
| | | | | | | | | | | | | | |

| Parts List | | |
|---------------|--|----------|
| Part Number | Description | Quantity |
| SA308673 | SA 36A021S917G1 | 1.000 EA |
| RA296009 | RA 36A021S917G1 | 1.000 EA |
| 36CB3004 | 36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0 | 1.000 EA |
| 36GS1000SP | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 1.000 EA |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01 | BRASS CUP WASHER, FOR #10 SCREW | 1.000 EA |
| 36EP3306A05 | FR ENDPLATE, TAP FOR T-BOLT, W/O TIGHTSL | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| HW5100A05 | WVY WSHR F/205 & 304 BRGS | 1.000 EA |
| 36EP3100A02 | PU ENDPLATE, MACH | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| HW2501D08 | KEY, 3/16 SQ X .875 AUTO | 1.000 EA |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 EA |
| HW2500A16 | EY, USA #606, WOODRUFF | 1.000 EA |
| 36FH4009A05SP | IEC FH,GREASER & 1.38 SHAFT HOLE,W/ | 1.000 EA |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 36CB4516 | 36 LIPPED CB LID - GALVANNEAL | 1.000 EA |
| 37GS1001SP | GASKET, CONDUIT BOX LID, .06 THICK LEXID | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501E16 | KEY, 1/4 SQ X 1.750 | 1.000 EA |
| HA7000A02 | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA | 1.000 EA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| HW3200A01 | 3/8-16X3/4 I-BLT WELDED F/S | 1.000 EA |

| Parts List (continued) | | |
|-------------------------------|--|-----------------|
| Part Number | Description | Quantity |
| MJ1000A02 | GREASE, MOBIL POLYREX EM - 124047 | 0.050 LB |
| 84XN3816J28 | HEX SOC HD, 3/8-16 X 1.75 LONG | 2.000 EA |
| 36FN3000A02SP | EXFN, PLASTIC, 7.00 OD, 1.175 ID | 1.000 EA |
| MG1000Y03 | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20, | 0.022 GA |
| HA3101A28 | THRUBOLT 1/4-20 X 12.500 OHIO ROD | 4.000 EA |
| 76BK4100DQF | 1-056-041-00-DQF BRAKE TDR# 79345 | 1.000 EA |
| LB1115N | LABEL,LIFTING DEVICE (ON ROLLS) | 1.000 EA |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| LB1404 | BRAKE CONNECTION LABEL | 1.000 EA |
| NP1259L | ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM | 1.000 EA |
| G0PA1000 | PKG GRP, PRINT PK1026A06 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 3/19 | 1.000 EA |

AC Induction Motor Performance Data

Record # 53367 - Typical performance - not guaranteed values

| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 36WGS917-R019 | Type: 3644M | Enclosure: TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|--|--------------------------|
| Rated Output (HP) | 2 | | | Full Load Torque | 8.91 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 7/3.5 | | | Breakdown Torque | 40.2 LB-FT |
| R.P.M. | 1175 | | | Pull-up Torque | 21.6 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 28.2 LB-FT |
| NEMA Design Code | A | KVA Code | M | Starting Current | 27.5 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 2.45 A |
| NEMA Nom. Eff. | 88.5 | Power Factor | 60 | Line-line Res. @ 25°C | 4.02 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 34°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 39°C |
| | | | | Locked-rotor Power Factor | 28.7 |
| | | | | Rotor inertia | 0.413 LB-FT ² |

Load Characteristics 460 V, 60 Hz, 2 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor | 24 | 40 | 52 | 60 | 66 | 70 | 64 |
| Efficiency | 76.4 | 85.3 | 87.9 | 88.8 | 88.9 | 88.2 | 88.8 |
| Speed | 1197 | 1191 | 1186 | 1179 | 1173 | 1166 | 1175 |
| Line amperes | 2.53 | 2.76 | 3.09 | 3.49 | 3.97 | 4.52 | 3.78 |

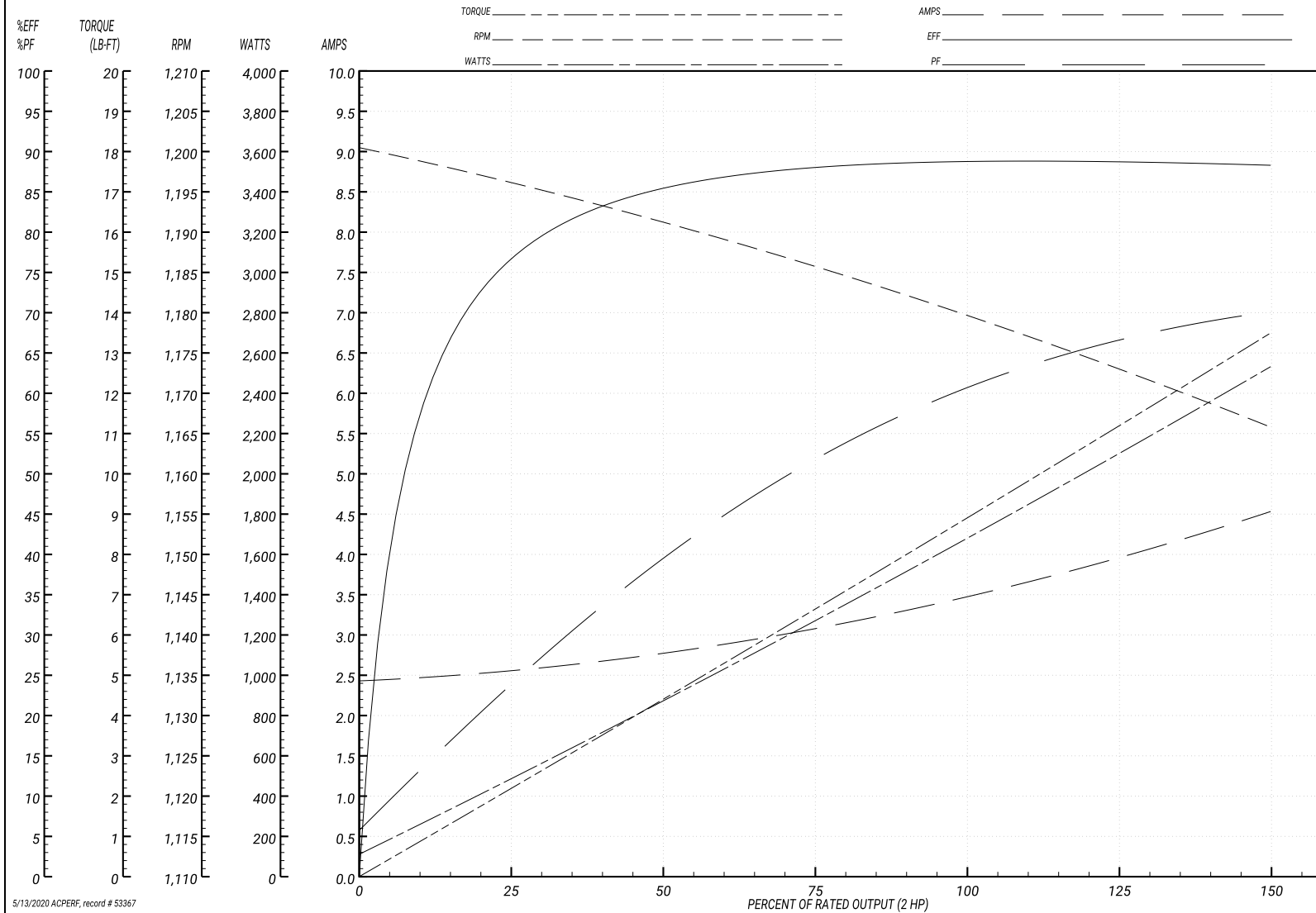
Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 36WGS917

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1175 RPM 460 V 3644M
 TORQUES(LB-FT): PO=40.2 PU=21.6 LR=28.2 LRA=27.5



5/13/2020 ACPERF, record # 53367

CD0005

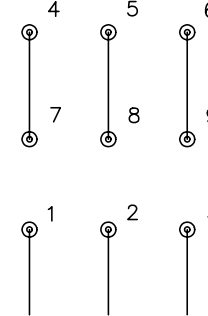


LOW VOLTAGE
(2Y)



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 |
| 90000 | | FILE: AAA00005140 | MDL: - |
| | | MTL: - | |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005