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# Product Information Packet

# EM3611T

## 3HP,1760RPM,3PH,60HZ,182T,3631M,TEFC,F1

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| Part Detail | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Revision:** | G | **Status:** | PRD/A | **Change #:** | | **Proprietary:** | No |
| **Type:** | AC | **Prod. Type:** | 3632M | **Elec. Spec:** | 36WGS266 | **CD Diagram:** | CD0005 |
| **Enclosure:** | TEFC | **Mfg Plant:** | | **Mech. Spec:** | 36Q570 | **Layout:** | 36LYQ570 |
| **Frame:** | 182T | **Mounting:** | F1 | **Poles:** | 04 | **Created Date:** | 09-02-2015 |
| **Base:** | RG | **Rotation:** | R | **Insulation:** | F | **Eff. Date:** | 04-15-2016 |
| **Leads:** | 9#16 | | | | | **Replaced By:** | |
| **Literature:** | | **Elec. Diagram:** | | | | | |



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## Nameplate NP3441LUA

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EM3611T | | | | | | | | |
| **SPEC.** | 36Q570S266G1 | | | | | | | | |
| **HP** | 3 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMP** | 8.4/4.2 | | | | | | | | |
| **RPM** | 1760 | | | | | | | | |
| **FRAME** | 182T | **HZ** | 60 | | | **PH** | 3 | | |
| **SER.F.** | 1.15 | **CODE** | K | **DES** | B | **CL** | F | | |
| **NEMA-NOM-EFF** | 89.5 | **PF** | 75 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | **USABLE AT 208V** | 9 | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | |
| | 50Hz 3HP 190/380V 9.6/4.8A | | | | | | | | SF1.0 |



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## Parts List

| Part Number | Description | Quantity |
|---|---|---|
| SA306708 | SA 36Q570S266G1 | 1.000 EA |
| RA293966 | RA 36Q570S266G1 | 1.000 EA |
| 36FN3000C01 | EXFN, PLASTIC, 5.25 OD, .912 ID | 1.000 EA |
| 36CB3004 | 36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0 | 1.000 EA |
| 36GS1000 | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 1.000 EA |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 36FE3104A01 | FREP MACH ASSEMBLY FOR ROUTING | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| HW5100A05 | WVY WSHR F/205 & 304 BRGS | 1.000 EA |
| 36EP3100A01SP | PUEP ASSEMBLY FOR ROUTING PURPOSES | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| XY2520A12 | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS | 4.000 EA |
| 36FH4009A102 | IEC FH GREASER PRIMED | 1.000 EA |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 36CB4516 | 36 LIPPED CB LID | 1.000 EA |
| 37GS1001 | 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 | 3KEY, 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 |
| MJ1000A02 | GREASE, POLYREX EM EXXON (USe 4824-15A) | 0.050 LB |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 EA |



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## Parts List (continued)

| Part Number | Description | Quantity |
|---|---|---|
| HA3101A25 | THRUBOLT 1/4-20 X 11.000 OHIO ROD | 4.000 EA |
| MG1000Y03 | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20, | 0.022 GA |
| LB1115N | LABEL,LIFTING DEVICE (ON ROLLS) | 1.000 EA |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| NP3441LUA | ALUM SUPER-E VPWM INV READY UL | 1.000 EA |
| 36PA1001 | PKG GRP, PRINT PK1017A06 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 11/14 | 1.000 EA |



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## Accessories

| Part Number | Description | Multiplier |
|---|---|---|
| 36-3301 | C FACE KIT | A8 |
| 36EP1304A62SP | FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS | A8 |



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**AC Induction Motor Performance Data**

Record # 53364 - Typical performance - not guaranteed values

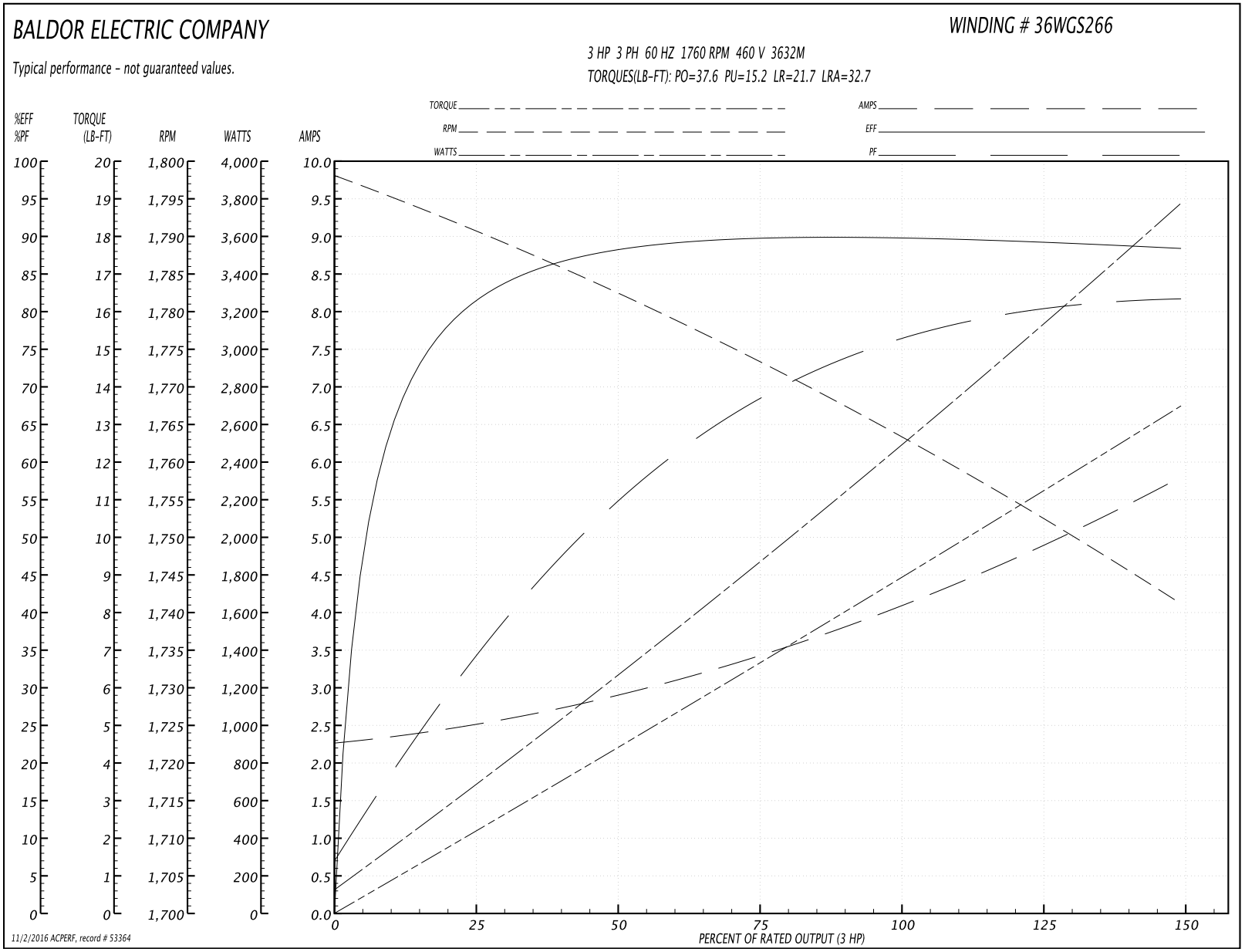
| **Winding:** 36WGS266-R006 | **Type:** 3632M | **Enclosure:** TEFC |
|---|---|---|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|---|---|---|---|---|---|
| Rated Output (HP) | 3 | | | Full Load Torque | 8.8 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 8.4/4.2 | | | Breakdown Torque | 37.6 LB-FT |
| R.P.M. | 1760 | | | Pull-up Torque | 15.2 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 21.7 LB-FT |
| NEMA Design Code | B | KVA Code | K | Starting Current | 32.7 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 2.3 A |
| NEMA Nom. Eff. | 89.5 | Power Factor | 75 | Line-line Res. @ 25ºC | 3.81 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 44°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 52°C |
| | | | | Rotor inertia | 0.298 LB-FT2 |

Load Characteristics 460 V, 60 Hz, 3 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|---|---|---|---|---|---|---|---|
| Power Factor | 35 | 55 | 68 | 75 | 80 | 82 | 77 |
| Efficiency | 81.1 | 87.8 | 89.6 | 89.8 | 89.7 | 88.2 | 89.2 |
| Speed | 1791 | 1783 | 1773 | 1764 | 1753 | 1741 | 1754 |
| Line amperes | 2.47 | 2.85 | 3.43 | 4.09 | 4.89 | 5.78 | 4.63 |

Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values






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**AC Induction Motor Performance Data**

Record # 57957 - Typical performance - not guaranteed values

| **Winding:** 36WGS266-R006 | **Type:** 3632M | **Enclosure:** TEFC |
|---|---|---|

| Nameplate Data | | | | 230 V, 60 Hz: Low Voltage Connection | |
|---|---|---|---|---|---|
| Rated Output (HP) | 3 | | | Full Load Torque | 8.8 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 8.4/4.2 | | | Breakdown Torque | 37.6 LB-FT |
| R.P.M. | 1760 | | | Pull-up Torque | 15.2 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 21.7 LB-FT |
| NEMA Design Code | B | KVA Code | K | Starting Current | 65.4 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 4.6 A |
| NEMA Nom. Eff. | 89.5 | Power Factor | 75 | Line-line Res. @ 25ºC | 0.953 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 44°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 52°C |
| | | | | Rotor inertia | 0.298 LB-FT2 |

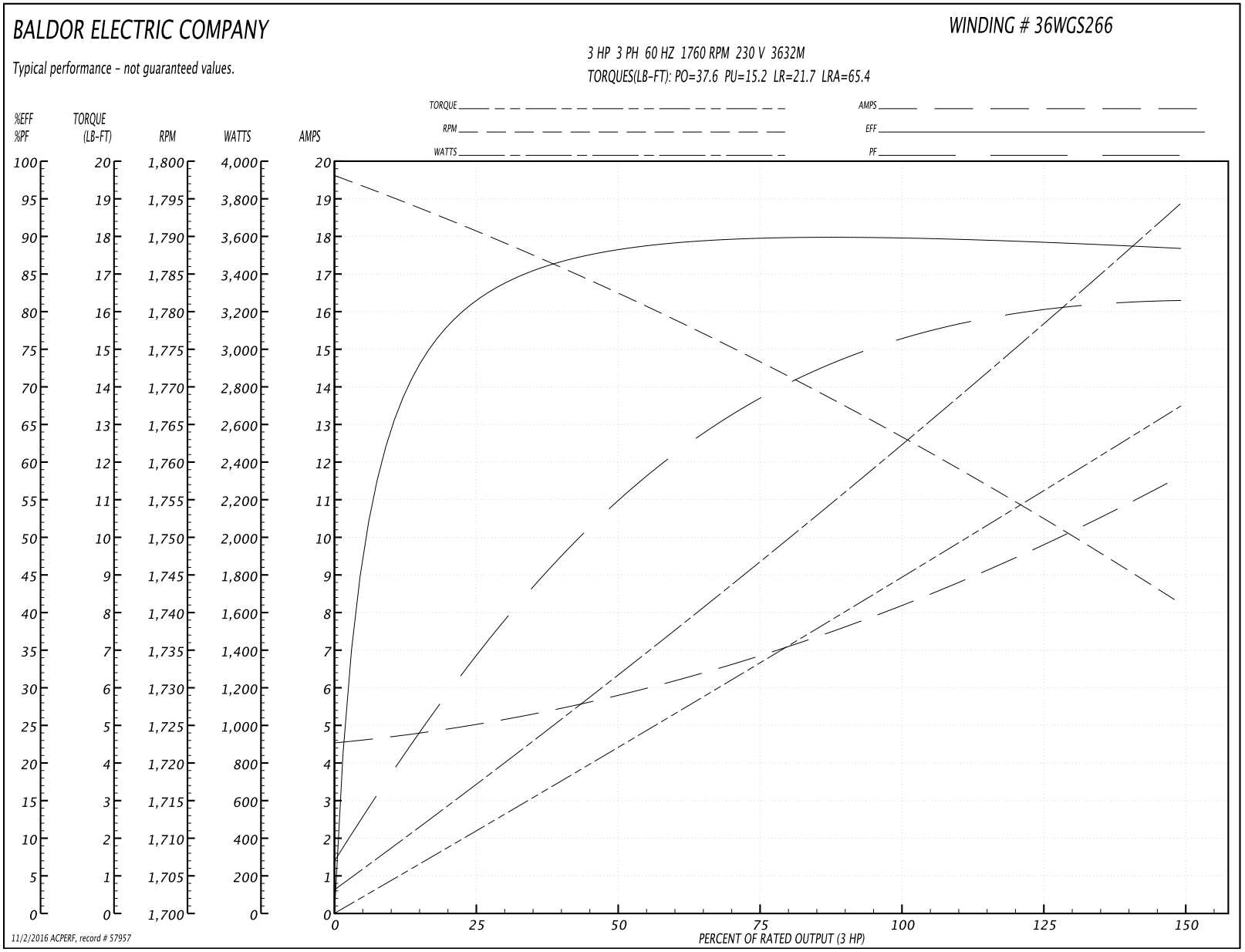
Load Characteristics 230 V, 60 Hz, 3 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|---|---|---|---|---|---|---|---|
| Power Factor | 35 | 55 | 68 | 75 | 80 | 82 | 78 |
| Efficiency | 81.1 | 87.8 | 89.6 | 89.8 | 89.7 | 88.2 | 89.7 |
| Speed | 1791 | 1783 | 1773 | 1764 | 1753 | 1741 | 1757 |
| Line amperes | 4.94 | 5.7 | 6.86 | 8.18 | 9.78 | 11.6 | 9.14 |



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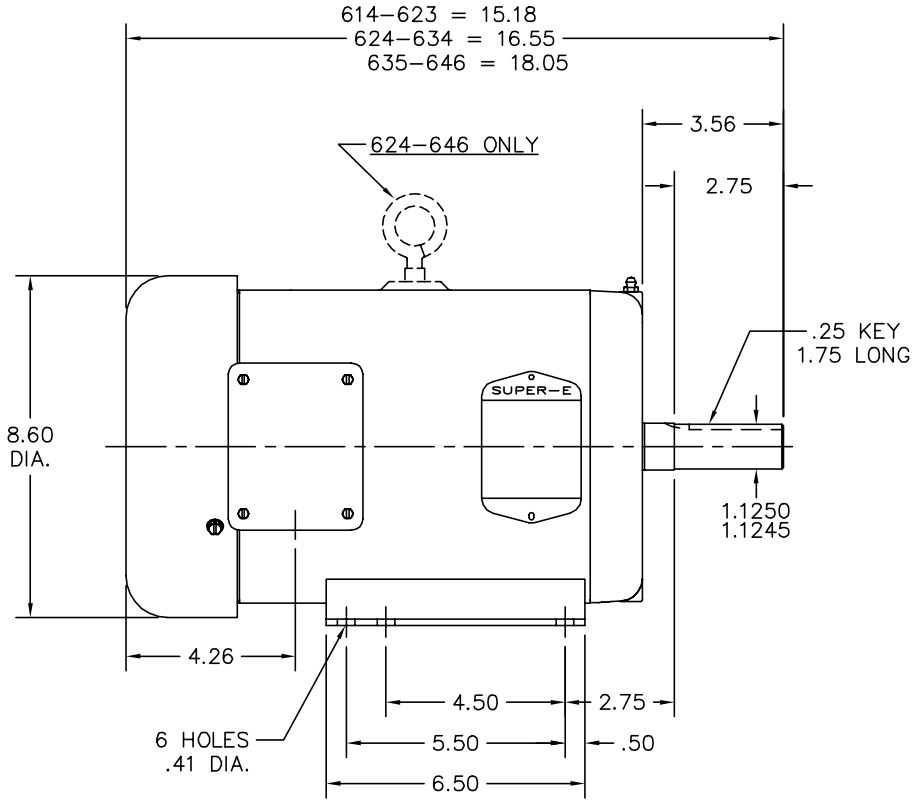
Performance Graph at 230V, 60Hz, 3.0HP Typical performance - Not guaranteed values

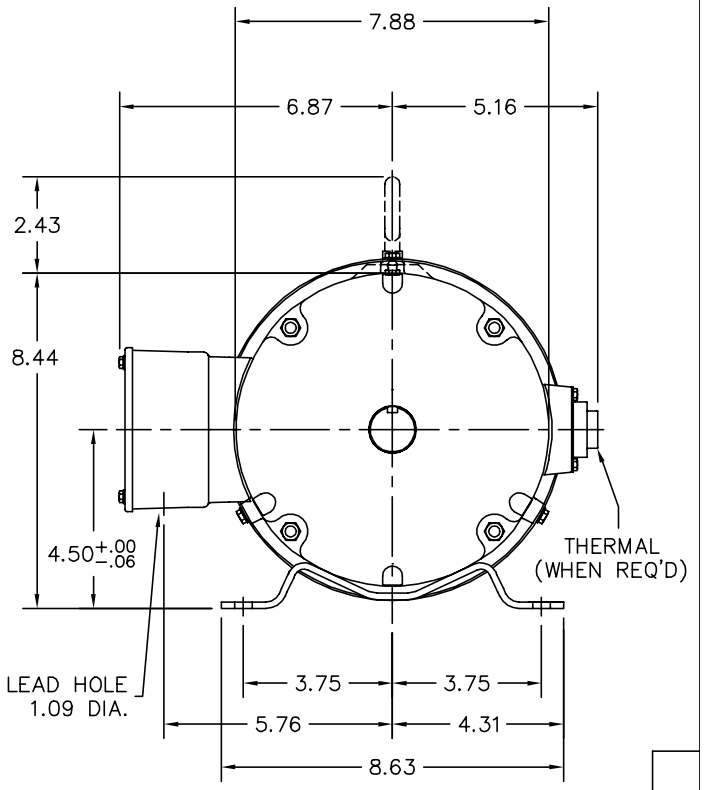





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36LYQ570




36LYQ570

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

| | | |
|---|---|---|
| REV. DESC: NEW | | |
| REV. LTR: – | VERSION: 00 | TDR: 000000942210 |
| FILE: \AAA\00221\450 | REVISED: 10:51:05 09/02/2015 | BY: ENALEMO |
| MTL: – | | |

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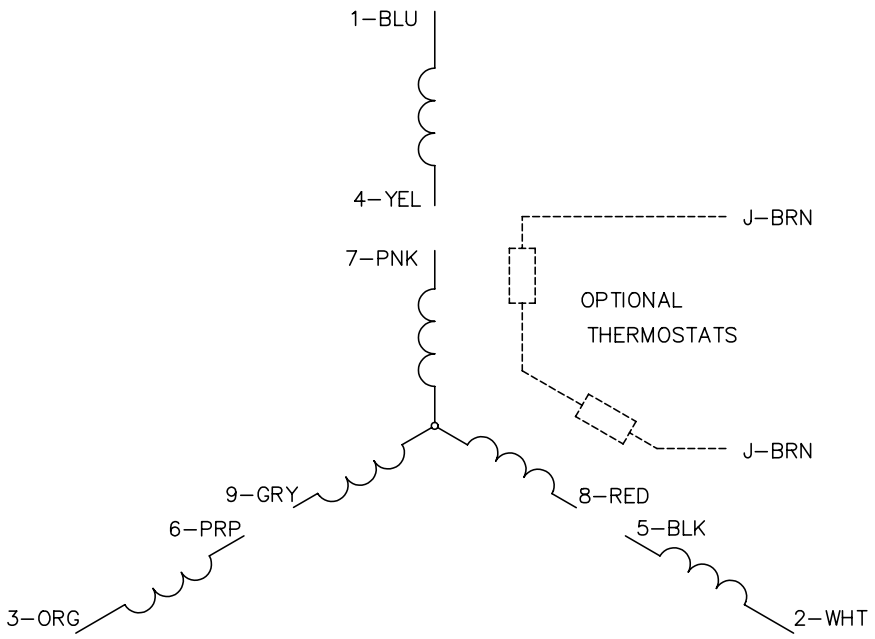
HORZ 182–4T TEFC 36M SUPER–E W/EYEBOLT (624–646)

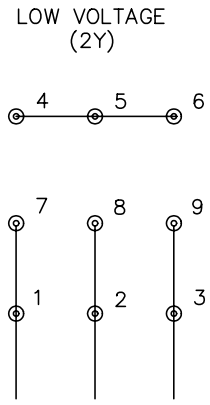
SH 1 of 1

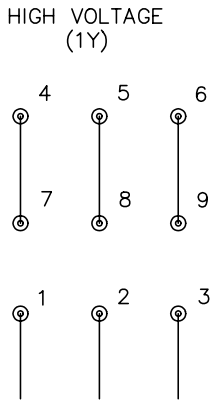


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CD0005




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.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |



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