



## Product Information Packet

# EFM3211T-8

3HP,1765RPM,3PH,60HZ,182T,3630M,OPSB,F2

| Part Detail |        |             |            |             |        |               |            |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision:   | K      | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No         |
| Type:       | AC     | Elec. Spec: | 36WGS760   | CD Diagram: | CD0006 | Mfg Plant:    |            |
| Mech. Spec: | 36H946 | Layout:     | 36LYH946   | Poles:      | 04     | Created Date: | 06-29-2011 |
| Base:       | RG     | Eff. Date:  | 04-04-2019 | Leads:      | 3#14   |               |            |

| Specs                           |                         |                                |                    |
|---------------------------------|-------------------------|--------------------------------|--------------------|
| Catalog Number:                 | EFM3211T-8              | Inverter Code:                 | Inverter Ready     |
| Enclosure:                      | OPSB                    | KVA Code:                      | K                  |
| Frame:                          | 182T                    | Lifting Lugs:                  | No Lifting Lugs    |
| Frame Material:                 | Steel                   | Locked Bearing Indicator:      | No Locked Bearing  |
| Output @ Frequency:             | 3.000 HP @ 60 HZ        | Motor Lead Quantity/Wire Size: | 3 @ 14 AWG         |
| Synchronous Speed @ Frequency:  | 1800 RPM @ 60 HZ        | Motor Lead Exit:               | Ko Box             |
| Voltage @ Frequency:            | 200.0 V @ 60 HZ         | Motor Lead Termination:        | Flying Leads       |
| XP Class and Group:             | None                    | Motor Type:                    | 3630M              |
| XP Division:                    | Not Applicable          | Mounting Arrangement:          | F2                 |
| Agency Approvals:               | CSA                     | Power Factor:                  | 74                 |
|                                 | CSA EEV                 | Product Family:                | General Purpose    |
|                                 | UR                      | Pulley End Bearing Type:       | Ball               |
| Auxillary Box:                  | No Auxillary Box        | Pulley Face Code:              | Standard           |
| Auxillary Box Lead Termination: | None                    | Pulley Shaft Indicator:        | Standard           |
| Base Indicator:                 | Rigid                   | Rodent Screen:                 | None               |
| Bearing Grease Type:            | Polyrex EM (-20F +300F) | Shaft Extension Location:      | Pulley End         |
| Blower:                         | None                    | Shaft Ground Indicator:        | No Shaft Grounding |
| Current @ Voltage:              | 9.700 A @ 200.0 V       | Shaft Rotation:                | Reversible         |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Design Code:</b>                   | B                         | <b>Shaft Slinger Indicator:</b>    | No Slinger          |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Speed Code:</b>                 | Single Speed        |
| <b>Duty Rating:</b>                   | CONT                      | <b>Motor Standards:</b>            | NEMA                |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Starting Method:</b>            | Direct on line      |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Front Face Code:</b>               | Standard                  | <b>Thermal Device - Winding:</b>   | None                |
| <b>Front Shaft Indicator:</b>         | None                      | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Heater Indicator:</b>              | No Heater                 | <b>Winding Thermal 1:</b>          | None                |
| <b>Insulation Class:</b>              | F                         | <b>Winding Thermal 2:</b>          | None                |

## Nameplate NP3553L

|                           |              |  |  |      |                |     |      |   |  |       |   |
|---------------------------|--------------|--|--|------|----------------|-----|------|---|--|-------|---|
| CAT.NO.                   | EFM3211T-8   |  |  |      |                |     |      |   |  |       |   |
| SPEC                      | 36H946S760G1 |  |  |      |                |     |      |   |  |       |   |
| HP                        | 3            |  |  |      |                |     |      |   |  |       |   |
| VOLTS                     | 200          |  |  |      |                |     |      |   |  |       |   |
| AMPS                      | 9.7          |  |  |      |                |     |      |   |  |       |   |
| RPM                       | 1765         |  |  |      |                |     |      |   |  |       |   |
| FRAME                     | 182T         |  |  |      |                | HZ  | 60   |   |  | PH    | 3 |
| SF                        | 1.15         |  |  | CODE | K              |     | DES  | B |  | CLASS | F |
| NEMA NOM. EFF             | 89.5         |  |  |      | PF             | 74  |      |   |  |       |   |
| RATING                    | 40C AMB-CONT |  |  |      |                |     |      |   |  |       |   |
| CC                        | 010A         |  |  |      | USABLE AT 208V |     |      |   |  |       |   |
| ENCL                      | OPSB         |  |  |      | SER            |     |      |   |  |       |   |
| DE                        | 6206         |  |  |      |                | ODE | 6205 |   |  |       |   |
| VPWM INVERTER READY       |              |  |  |      |                |     |      |   |  |       |   |
| CT30-60(2:1) VT3-60(20:1) |              |  |  |      |                |     |      |   |  |       |   |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA226296    | SA 36H946S760G1                          | 1.000 EA |
| RA213394    | RA 36H946S760G1                          | 1.000 EA |
| HW3200A01   | 3/8-16X3/4 I-BLT WELDED F/S              | 1.000 EA |
| 36CB3005A03 | 36 CB .75 NPT @ 6                        | 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 |
| 36EP3204B00 | MASTER ODE,205 BRG,GRSR                  | 1.000 EA |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HW5100A05   | WVY WSHR F/205 & 304 BRGS                | 1.000 EA |
| 36EP3205D00 | MASTER DE,206 BRG,1.197SH,GRSR           | 1.000 EA |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| XY2520A12   | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS   | 4.000 EA |
| 36CB4516    | 750LIPPED CB LID - GALVANNEAL            | 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 |
| LB1115N     | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| MJ1000A02   | GREASE, MOBIL POLYREX EM - 124047        | 0.050 LB |
| HA3101A25   | THRUBOLT 1/4-20 X 11.000 OHIO ROD        | 4.000 EA |
| 36AD2004A01 | BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA | 2.000 EA |
| MG1000Y03   | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,      | 0.022 GA |
| LB1119N     | WARNING LABEL                            | 1.000 EA |
| LC0006      | CONNECTION LABEL                         | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| NP3553L                | ALUM SUPER-E VPWM INVERTER READY UL CSA- | 1.000 EA |
| G7PA1000               | PKG GRP, PRINT    PK1034A06              | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 3/19  | 1.000 EA |
| PE-0000001             | ZRTG PE ASSEMBLY                         | 1.000 EA |
| FE-0000001             | ZRTG FE ASSEMBLY                         | 1.000 EA |

| Accessories   |              |            |
|---------------|--------------|------------|
| Part Number   | Description  | Multiplier |
| 36-3403       | C FACE KIT   | A8         |
| 36EP1405A09SP | D-FLANGE KIT | A8         |

**AC Induction Motor Performance Data**

Record # 34571

Typical performance - not guaranteed values

| Winding: 36WGS760-R001 |    |       | Type: 3630M                           | Enclosure: OPSB     |                           |            |              |
|------------------------|----|-------|---------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |    |       | 200 V, 60 Hz:<br>Single Voltage Motor |                     |                           |            |              |
| Rated Output (HP)      |    | 3     | Full Load Torque                      |                     | 8.85 LB-FT                |            |              |
| Volts                  |    | 200   | Start Configuration                   |                     | direct on line            |            |              |
| Full Load Amps         |    | 9.7   | Breakdown Torque                      |                     | 37.6 LB-FT                |            |              |
| R.P.M.                 |    | 1765  | Pull-up Torque                        |                     | 17.5 LB-FT                |            |              |
| Hz                     | 60 | Phase | 3                                     | Locked-rotor Torque |                           | 21.4 LB-FT |              |
| NEMA Design Code       |    | B     | KVA Code                              | K                   | Starting Current          |            | 75.1 A       |
| Service Factor (S.F.)  |    | 1.15  | No-load Current                       |                     | 5.72 A                    |            |              |
| NEMA Nom. Eff.         |    | 89.5  | Power Factor                          | 74                  | Line-line Res. @ 25°C     |            | 0.731 Ω      |
| Rating - Duty          |    | 40C   | AMB-CONT                              |                     | Temp. Rise @ Rated Load   |            | 24°C         |
| S.F. Amps              |    |       |                                       |                     | Temp. Rise @ S.F. Load    |            | 29°C         |
|                        |    |       |                                       |                     | Locked-rotor Power Factor |            | 44           |
|                        |    |       |                                       |                     | Rotor inertia             |            | 0.279 LB-FT2 |

**Load Characteristics 200 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 32   | 53   | 66   | 73   | 78   | 81   | 76   |
| Efficiency      | 79.6 | 87.4 | 89.4 | 89.7 | 89.5 | 88.3 | 89.6 |
| Speed           | 1791 | 1783 | 1775 | 1766 | 1756 | 1745 | 1760 |
| Line amperes    | 6.1  | 6.99 | 8.24 | 9.84 | 11.5 | 13.5 | 10.8 |

## Performance Graph at 200V, 60Hz, 3.0HP Typical performance - Not guaranteed values

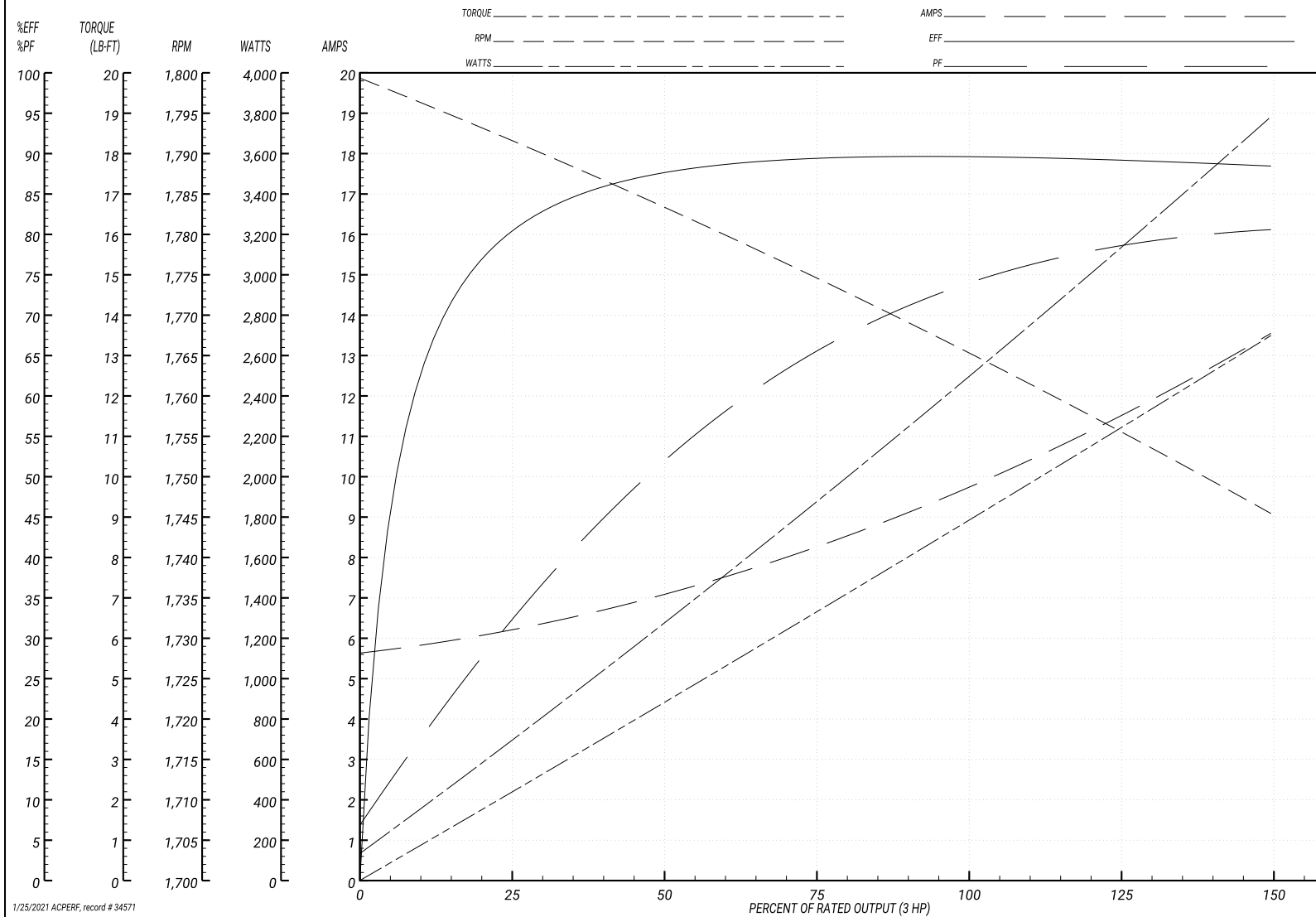
ABB Motors and Mechanical Inc.

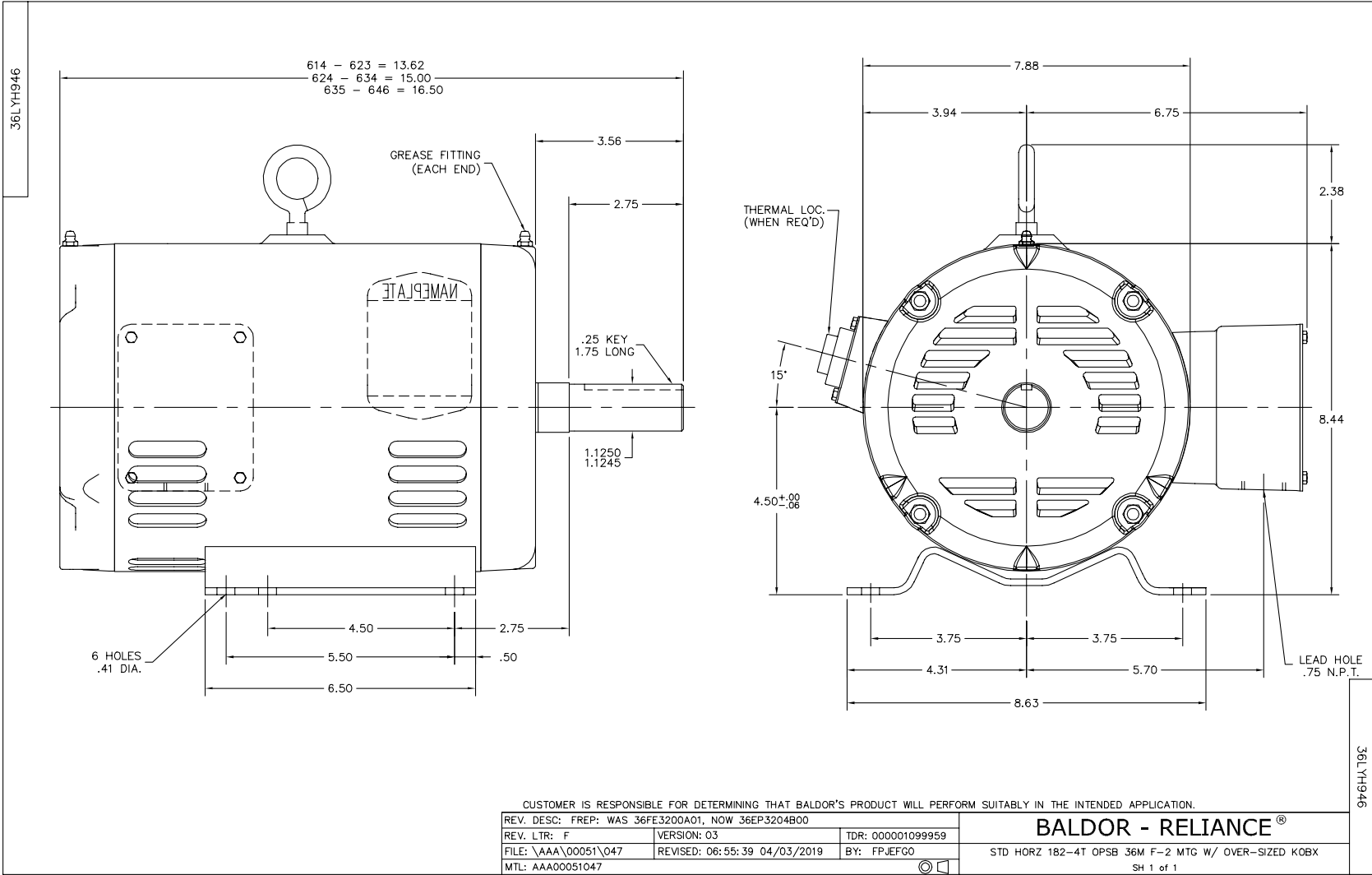
WINDING # 36WGS760

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1765 RPM 200 V 3630M

TORQUES(LB-FT): P0=37.6 PU=17.5 LR=21.4 LRA=75.1





CD0006

TYPICAL WYE-CONNECTED MOTOR

1-BLU

3-ORG

2-WHT

J-BRN

J-BRN

OPTIONAL THERMOSTATS

TYPICAL DELTA-CONNECTED MOTOR

1-BLU

2-WHT

3-ORG

J-BRN

J-BRN

OPTIONAL THERMOSTATS

1

2

3

LINE

NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.

2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.

3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.

4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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