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# Customer information packet

## EFM2394T

15HP, 3520RPM, 3PH, 60HZ, 254T, 0930M, TEFC, F2

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | 254T                                                           |
| Frame Material                 | Iron                                                           |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Three Phase                                                    |
| Output @ Frequency             | 15.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                              |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                               |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                             |
| Agency Approvals               | CSA EEV<br>CURUSEEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR      |
| Ambient Temperature            | 40 °C                                                          |
| Auxiliary Box                  | NO AUXILLARY BOX                                               |
| Auxiliary Box Lead Termination | None                                                           |
| Base Indicator                 | Rigid                                                          |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                        |
| Blower                         | None                                                           |
| Current @ Voltage              | 35.000 A @ 230.0 V<br>38.000 A @ 208.0 V<br>17.500 A @ 460.0 V |
| Design Code                    | B                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 91.0 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AB         |
| Type         | AC         |
| Mech. spec.  | 09C106     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 09WGZ602   |
| Layout       | 09LYC106   |
| Eff. date    | 04-16-2024 |
| CD Diagram   | CD0180     |
| Poles        | 02         |
| Leads        | 9#12       |
| Proprietary  | False      |
| Created date | 04-19-2013 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Front Face Code</b>               | Standard              |
| <b>Front Shaft Indicator</b>         | None                  |
| <b>Heater Indicator</b>              | No Heater             |
| <b>High Voltage Full Load Amps</b>   | 17.5 a                |
| <b>Insulation Class</b>              | F                     |
| <b>Inverter Code</b>                 | Inverter Ready        |
| <b>KVA Code</b>                      | G                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing     |
| <b>Motor Lead Exit</b>               | Ko Box                |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 12 AWG            |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 0930M                 |
| <b>Mounting Arrangement</b>          | F2                    |
| <b>Number of Poles</b>               | 2                     |
| <b>Overall Length</b>                | 23.36 IN              |
| <b>Power Factor</b>                  | 87                    |
| <b>Product Family</b>                | General Purpose       |
| <b>Pulley End Bearing Type</b>       | Ball                  |
| <b>Pulley Face Code</b>              | Standard              |
| <b>Pulley Shaft Indicator</b>        | Standard              |
| <b>Rodent Screen</b>                 | None                  |
| <b>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 1.625 IN              |
| <b>Shaft Extension Location</b>      | Pulley End            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger         |
| <b>Speed</b>                         | 3520 rpm              |
| <b>Speed Code</b>                    | Single Speed          |
| <b>Starting Method</b>               | Direct on line        |
| <b>Thermal Device - Bearing</b>      | None                  |
| <b>Thermal Device - Winding</b>      | None                  |

| Vibration Sensor Indicator | No Vibration Sensor |
|----------------------------|---------------------|
| Winding Thermal 1          | None                |
| Winding Thermal 2          | None                |

## Nameplate

| NP3441L                   |              |      |     |      |   |    |    |   |  |  |  |
|---------------------------|--------------|------|-----|------|---|----|----|---|--|--|--|
| CAT.NO.                   | EFM2394T     |      |     |      |   |    |    |   |  |  |  |
| SPEC.                     | 09C106Z602G1 |      |     |      |   |    |    |   |  |  |  |
| HP                        | 15           |      |     |      |   |    |    |   |  |  |  |
| VOLTS                     | 230/460      |      |     |      |   |    |    |   |  |  |  |
| AMP                       | 35/17.5      |      |     |      |   |    |    |   |  |  |  |
| RPM                       | 3520         |      |     |      |   |    |    |   |  |  |  |
| FRAME                     | 254T         |      | HZ  | 60   |   |    | PH | 3 |  |  |  |
| SER.F.                    | 1.15         | CODE | G   | DES  | B | CL | F  |   |  |  |  |
| NEMA-NOM-EFF              | 91           | PF   | 87  |      |   |    |    |   |  |  |  |
| RATING                    | 40C AMB-CONT |      |     |      |   |    |    |   |  |  |  |
| CC                        | 010A         |      |     |      |   |    |    |   |  |  |  |
| DE                        | 6309         |      | ODE | 6208 |   |    |    |   |  |  |  |
| ENCL                      | TEFC         | SN   |     |      |   |    |    |   |  |  |  |
| VPWM INVERTER READY       |              |      |     |      |   |    |    |   |  |  |  |
| CT6-60H(10:1)VT3-60H(20:1 |              |      |     |      |   |    |    |   |  |  |  |
|                           |              |      |     |      |   |    |    |   |  |  |  |

**AC Induction Motor Performance Data**

Record # 31412

Typical performance - not guaranteed values

| Winding: 09WGZ602-R001 |  |         | Type: 0930M  |                                          | Enclosure: TEFC     |                           |            |              |
|------------------------|--|---------|--------------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |  |         |              | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (HP)      |  | 15      |              | Full Load Torque                         |                     | 22.1 LB-FT                |            |              |
| Volts                  |  | 230/460 |              | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |  | 35/17.5 |              | Breakdown Torque                         |                     | 105 LB-FT                 |            |              |
| R.P.M.                 |  | 3525    |              | Pull-up Torque                           |                     | 26.2 LB-FT                |            |              |
| Hz                     |  | 60      | Phase        | 3                                        | Locked-rotor Torque |                           | 36.3 LB-FT |              |
| NEMA Design Code       |  | B       |              | KVA Code                                 | G                   | Starting Current          |            | 110 A        |
| Service Factor (S.F.)  |  | 1.15    |              | No-load Current                          |                     | 5.58 A                    |            |              |
| NEMA Nom. Eff.         |  | 91      | Power Factor |                                          | 87                  | Line-line Res. @ 25°C     |            | 0.68654 Ω    |
| Rating - Duty          |  | 40C     |              | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 63°C         |
| S.F. Amps              |  |         |              |                                          |                     | Temp. Rise @ S.F. Load    |            | 78°C         |
|                        |  |         |              |                                          |                     | Locked-rotor Power Factor |            | 30           |
|                        |  |         |              |                                          |                     | Rotor inertia             |            | 0.766 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 55     | 77     | 85     | 87     | 89     | 89     | 88   |
| Efficiency      | 86.4   | 91     | 91.6   | 91     | 90     | 88.6   | 90.4 |
| Speed           | 3582.7 | 3563.6 | 3542.7 | 3520.9 | 3495.8 | 3468.3 | 3506 |
| Line amperes    | 6.93   | 9.78   | 13.5   | 17.5   | 21.6   | 26.4   | 20   |

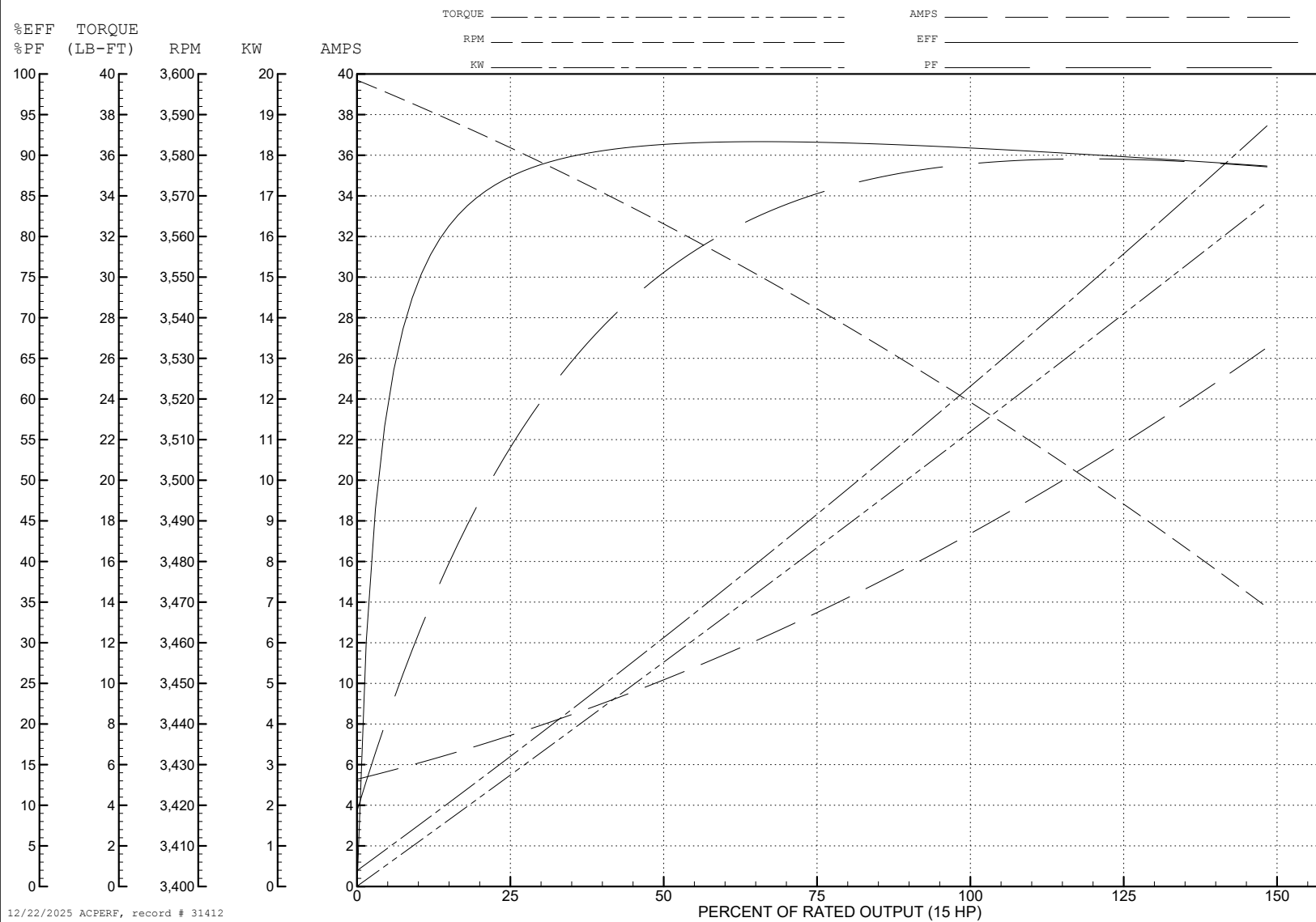
ABB Motors and Mechanical Inc.

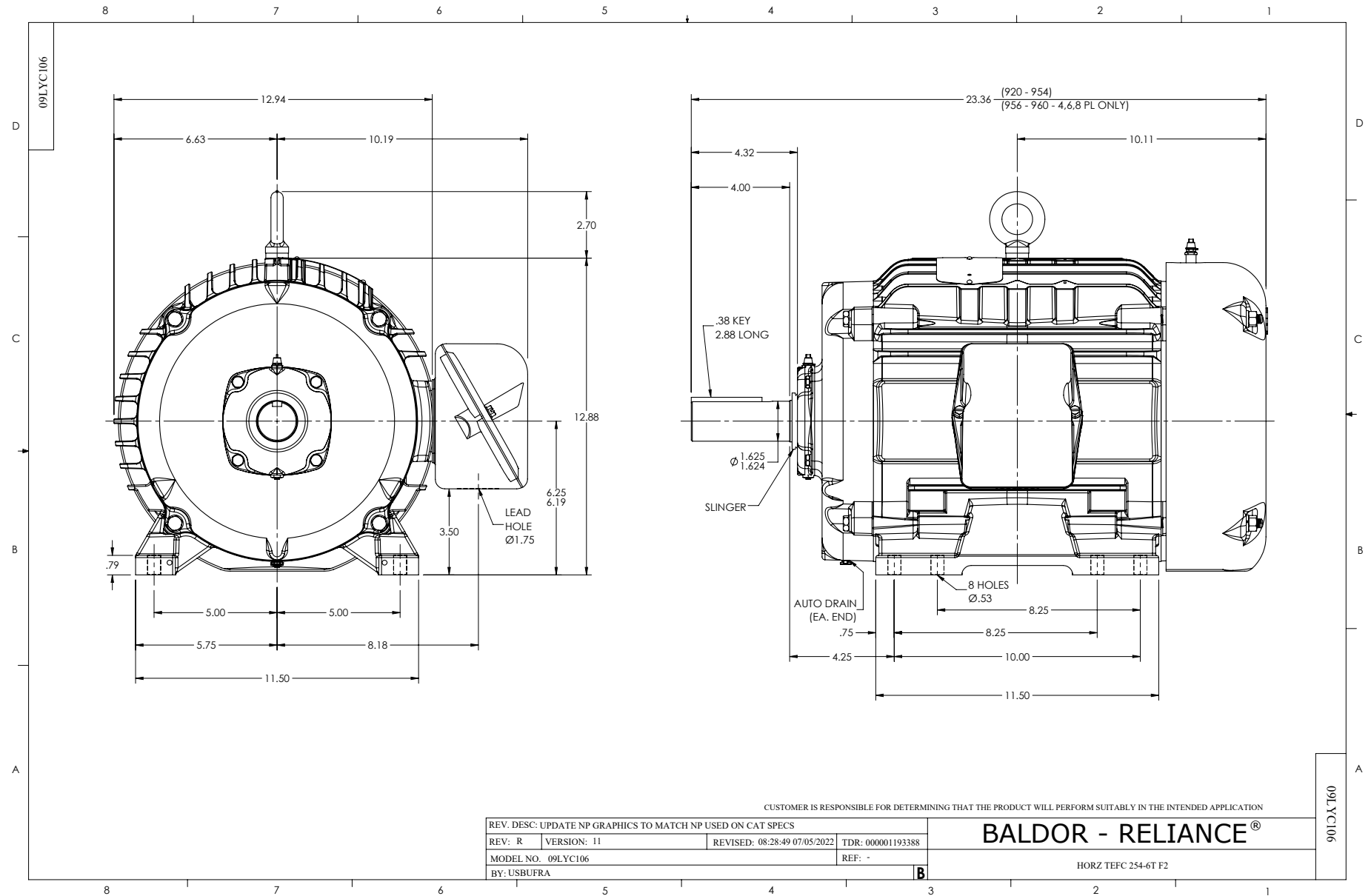
WINDING # 09WGZ602

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3525 RPM 460 V 0930M

TORQUES (LB-FT): PO=105 PU=26.2 LR=36.3 LRA=110





CD0180

LOW VOLTAGE  
(2D)HIGH VOLTAGE  
(1D)

## 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.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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