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# Customer information packet

## EFM2515T-G

20HP, 1765RPM, 3PH, 60HZ, 256T, 3948M, OPSB, F2

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | OPSB                                                           |
| Frame                          | 256T                                                           |
| Frame Material                 | Steel                                                          |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Three Phase                                                    |
| Output @ Frequency             | 20.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                              |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                               |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                             |
| Agency Approvals               | CSA EEV<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              | 48.000 A @ 230.0 V<br>52.000 A @ 208.0 V<br>24.000 A @ 460.0 V |
| Design Code                    | A                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 93.0 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Front Shaft Indicator          | None                                                           |
| Heater Indicator               | No Heater                                                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  | 39E468     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 39WGX952   |
| Layout       | 39LYE468   |
| Eff. date    | 12-15-2025 |
| CD Diagram   | CD0180     |
| Poles        | 04         |
| Leads        | 9#10       |
| Proprietary  | False      |
| Created date | 03-30-2023 |

|                               |                       |
|-------------------------------|-----------------------|
| High Voltage Full Load Amps   | 24.0 a                |
| Insulation Class              | H                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | G                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Quantity/Wire Size | 9 @ 10 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3948M                 |
| Mounting Arrangement          | F2                    |
| Number of Poles               | 4                     |
| Overall Length                | 23.19 IN              |
| Power Factor                  | 85                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| RoHS Status                   | ROHS COMPLIANT        |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.625 IN              |
| Shaft Ground Indicator        | Shaft Grounding       |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1765 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Bearing      | None                  |
| Thermal Device - Winding      | None                  |
| Vibration Sensor Indicator    | No Vibration Sensor   |
| Winding Thermal 1             | None                  |
| Winding Thermal 2             | None                  |

## Nameplate

## NP3553LUA

|                           |                           |      |     |      |   |       |       |
|---------------------------|---------------------------|------|-----|------|---|-------|-------|
| CAT.NO.                   | EFM2515T-G                |      |     |      |   |       |       |
| SPEC.                     | 39E468X952G1              |      |     |      |   |       |       |
| HP                        | 20                        |      |     |      |   |       |       |
| VOLTS                     | 230/460                   |      |     |      |   |       |       |
| AMPS                      | 48/24                     |      |     |      |   |       |       |
| RPM                       | 1765                      |      |     |      |   |       |       |
| FRAME                     | 256T                      |      | HZ  | 60   |   | PH    | 3     |
| SF                        | 1.15                      | CODE | G   | DES  | A | CLASS | H     |
| NEMA NOM. EFF             | 93                        | PF   | 85  |      |   |       |       |
| RATING                    | 40C AMB-CONT              |      |     |      |   |       |       |
| CC                        | 010A                      |      |     |      |   |       |       |
| ENCL                      | OPSB                      | SN   |     |      |   |       |       |
| DE                        | 6309                      |      | ODE | 6208 |   |       |       |
| VPWM INVERTER READY       |                           |      |     |      |   |       |       |
| CT30-60(2:1) VT3-60(20:1) |                           |      |     |      |   |       |       |
| USABLE AT                 | 50HZ 20HP 190/380V 58/29A |      |     |      |   |       | SF1.0 |

**AC Induction Motor Performance Data**

Record # 57686

Typical performance - not guaranteed values

| Winding: 39WGX952-R003 |    |              |              | Type: 3948M                              |                       | Enclosure: OPSB |           |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|-----------------|-----------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                 |           |
| Rated Output (HP)      |    | 20           |              | Full Load Torque                         |                       | 59.7 LB-FT      |           |
| Volts                  |    | 230/460      |              | Start Configuration                      |                       | direct on line  |           |
| Full Load Amps         |    | 48/24        |              | Breakdown Torque                         |                       | 187 LB-FT       |           |
| R.P.M.                 |    | 1765         |              | Pull-up Torque                           |                       | 78.1 LB-FT      |           |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 112 LB-FT       |           |
| NEMA Design Code       |    | A            | KVA Code     | G                                        | Starting Current      |                 | 156 A     |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                       | 8.83 A          |           |
| NEMA Nom. Eff.         |    | 93           | Power Factor | 85                                       | Line-line Res. @ 25°C |                 | 0.48438 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 37°C            |           |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                   |                       | 46°C            |           |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 33.3            |           |

**Load Characteristics 460 V, 60 Hz, 20 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 50     | 72     | 81     | 85     | 87     | 87     | 86   |
| Efficiency      | 90.2   | 93.3   | 93.5   | 93     | 92.2   | 91     | 92.5 |
| Speed           | 1792.2 | 1784.8 | 1776.1 | 1767.5 | 1757.6 | 1746.3 | 1762 |
| Line amperes    | 10.5   | 14     | 18.6   | 23.8   | 29.4   | 35.6   | 27.2 |

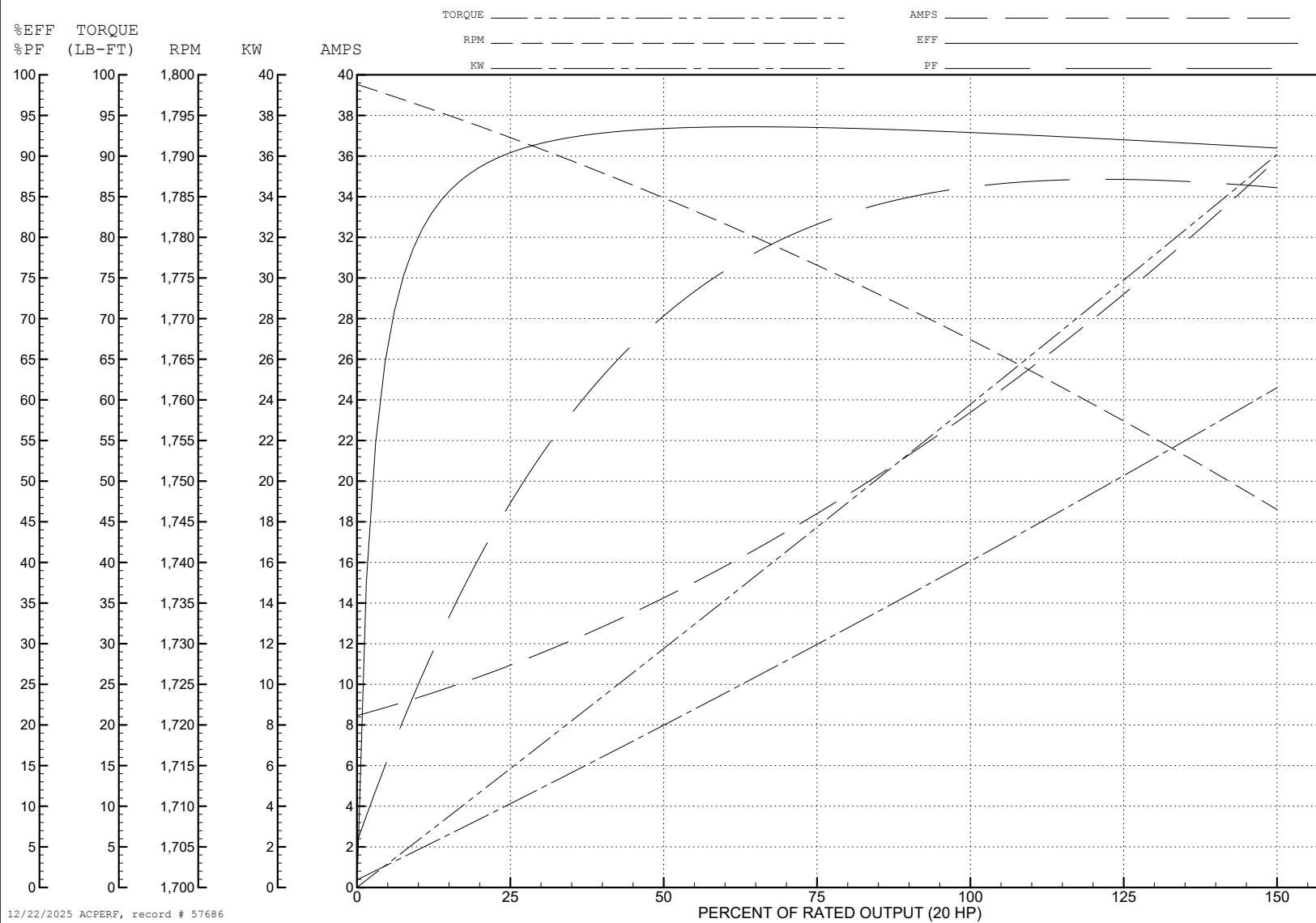
ABB Motors and Mechanical Inc.

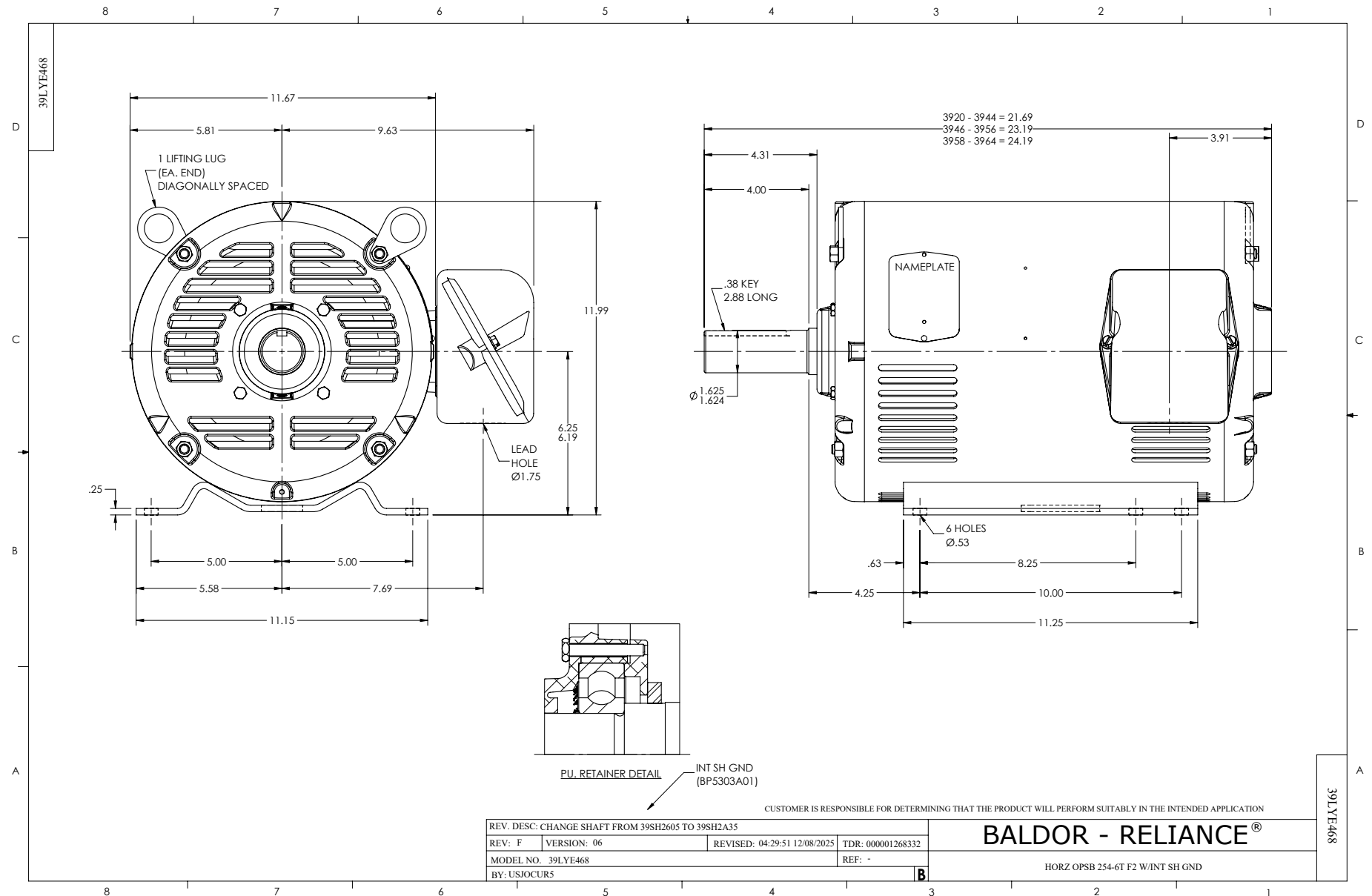
WINDING # 39WGX952

Typical performance - not guaranteed values.

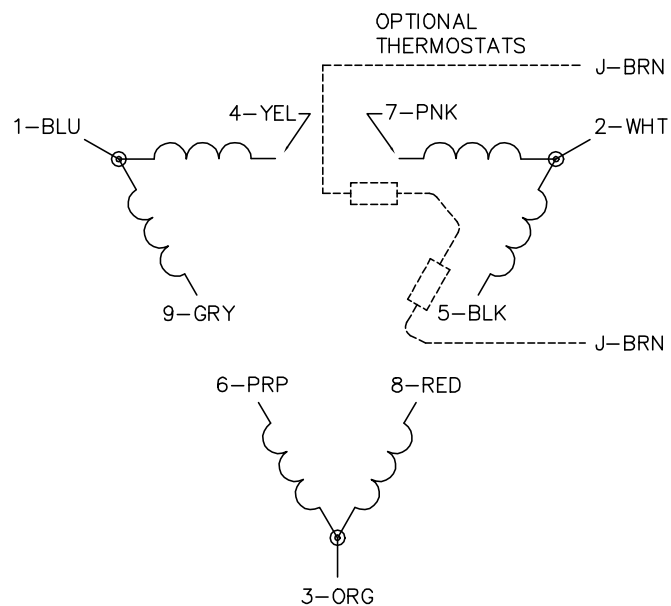
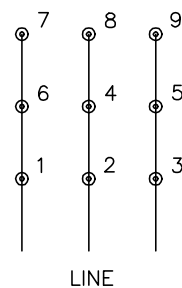
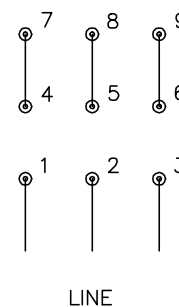
20 HP 3 PH 60 HZ 1765 RPM 460 V 3948M

TORQUES (LB-FT): PO=187 PU=78.1 LR=112 LRA=156





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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