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# Customer information packet

## EM2513T-8G

15HP, 1765RPM, 3PH, 60HZ, 254T, 3948M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | OPSB                                     |
| Frame                          | 254T                                     |
| 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             | 15.000 HP @ 60 HZ                        |
| Phase                          | 3                                        |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                         |
| Voltage @ Frequency            | 200.0 V @ 60 HZ                          |
| 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              | 40.000 A @ 208.0 V<br>41.000 A @ 200.0 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 Face Code                | Standard                                 |
| Front Shaft Indicator          | None                                     |
| Heater Indicator               | No Heater                                |
| High Voltage Full Load Amps    | 41.0 a                                   |
| Insulation Class               | H                                        |
| Inverter Code                  | Inverter Ready                           |
| KVA Code                       | H                                        |

## Part detail

|              |            |
|--------------|------------|
| Revision     | H          |
| Type         | AC         |
| Mech. spec.  | 39E366     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 39WGY387   |
| Layout       | 39LYE366   |
| Eff. date    | 12-09-2024 |
| CD Diagram   | CD0006     |
| Poles        | 04         |
| Leads        | 3#8        |
| Proprietary  | False      |
| Created date | 10-09-2017 |

|                               |                       |
|-------------------------------|-----------------------|
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 3 @ 8 AWG             |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3948M                 |
| Mounting Arrangement          | F1                    |
| 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                  |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.625 IN              |
| Shaft Extension Location      | Pulley End            |
| 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   |

## Nameplate

| NP3553L                   |              |      |     |      |   |       |   |  |  |
|---------------------------|--------------|------|-----|------|---|-------|---|--|--|
| CAT.NO.                   | EM2513T-8G   |      |     |      |   |       |   |  |  |
| SPEC                      | 39E366Y387G1 |      |     |      |   |       |   |  |  |
| HP                        | 15           |      |     |      |   |       |   |  |  |
| VOLTS                     | 200          |      |     |      |   |       |   |  |  |
| AMPS                      | 41           |      |     |      |   |       |   |  |  |
| RPM                       | 1765         |      |     |      |   |       |   |  |  |
| FRAME                     | 254T         |      | HZ  | 60   |   | PH    | 3 |  |  |
| SF                        | 1.15         | CODE | H   | DES  | A | CLASS | H |  |  |
| NEMA NOM. EFF             | 93           | PF   | 85  |      |   |       |   |  |  |
| RATING                    | 40C AMB-CONT |      |     |      |   |       |   |  |  |
| CC                        | 010A         |      |     |      |   |       |   |  |  |
| ENCL                      | OPSB         | SER  |     |      |   |       |   |  |  |
| DE                        | 6309         |      | ODE | 6208 |   |       |   |  |  |
| VPWM INVERTER READY       |              |      |     |      |   |       |   |  |  |
| CT30-60(2:1) VT3-60(20:1) |              |      |     |      |   |       |   |  |  |

## AC Induction Motor Performance Data

Record # 67190

Typical performance - not guaranteed values

| Winding: 39WGY387-R002 |    |              |              | Type: 3948M                           |                       | Enclosure: OPSB |         |
|------------------------|----|--------------|--------------|---------------------------------------|-----------------------|-----------------|---------|
| Nameplate Data         |    |              |              | 200 V, 60 Hz:<br>Single Voltage Motor |                       |                 |         |
| Rated Output (HP)      |    | 15           |              | Full Load Torque                      |                       | 44.48 LB-FT     |         |
| Volts                  |    | 200          |              | Start Configuration                   |                       | direct on line  |         |
| Full Load Amps         |    | 41           |              | Breakdown Torque                      |                       | 145 LB-FT       |         |
| R.P.M.                 |    | 1765         |              | Pull-up Torque                        |                       | 62.18 LB-FT     |         |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                   |                       | 79.47 LB-FT     |         |
| NEMA Design Code       |    | A            | KVA Code     | H                                     | Starting Current      |                 | 277 A   |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                       |                       | 15.15 A         |         |
| NEMA Nom. Eff.         |    | 93           | Power Factor | 85                                    | Line-line Res. @ 25°C |                 | 0.108 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load               |                       | 26°C            |         |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                |                       | 32°C            |         |
|                        |    |              |              | Locked-rotor Power Factor             |                       | 32.9            |         |
|                        |    |              |              | Rotor inertia                         |                       | 2.1 LB-FT2      |         |

## Load Characteristics 200 V, 60 Hz, 15 HP

| % of Rated Load | 25    | 50    | 75    | 100   | 125  | 150   | S.F. |
|-----------------|-------|-------|-------|-------|------|-------|------|
| Power Factor    | 50    | 72    | 81    | 85    | 87   | 87    | 86   |
| Efficiency      | 89.8  | 93    | 93.5  | 93    | 92.3 | 91.3  | 92.6 |
| Speed           | 1792  | 1785  | 1778  | 1769  | 1760 | 1750  | 1764 |
| Line amperes    | 18.08 | 24.24 | 31.96 | 40.84 | 50.2 | 60.92 | 46.5 |

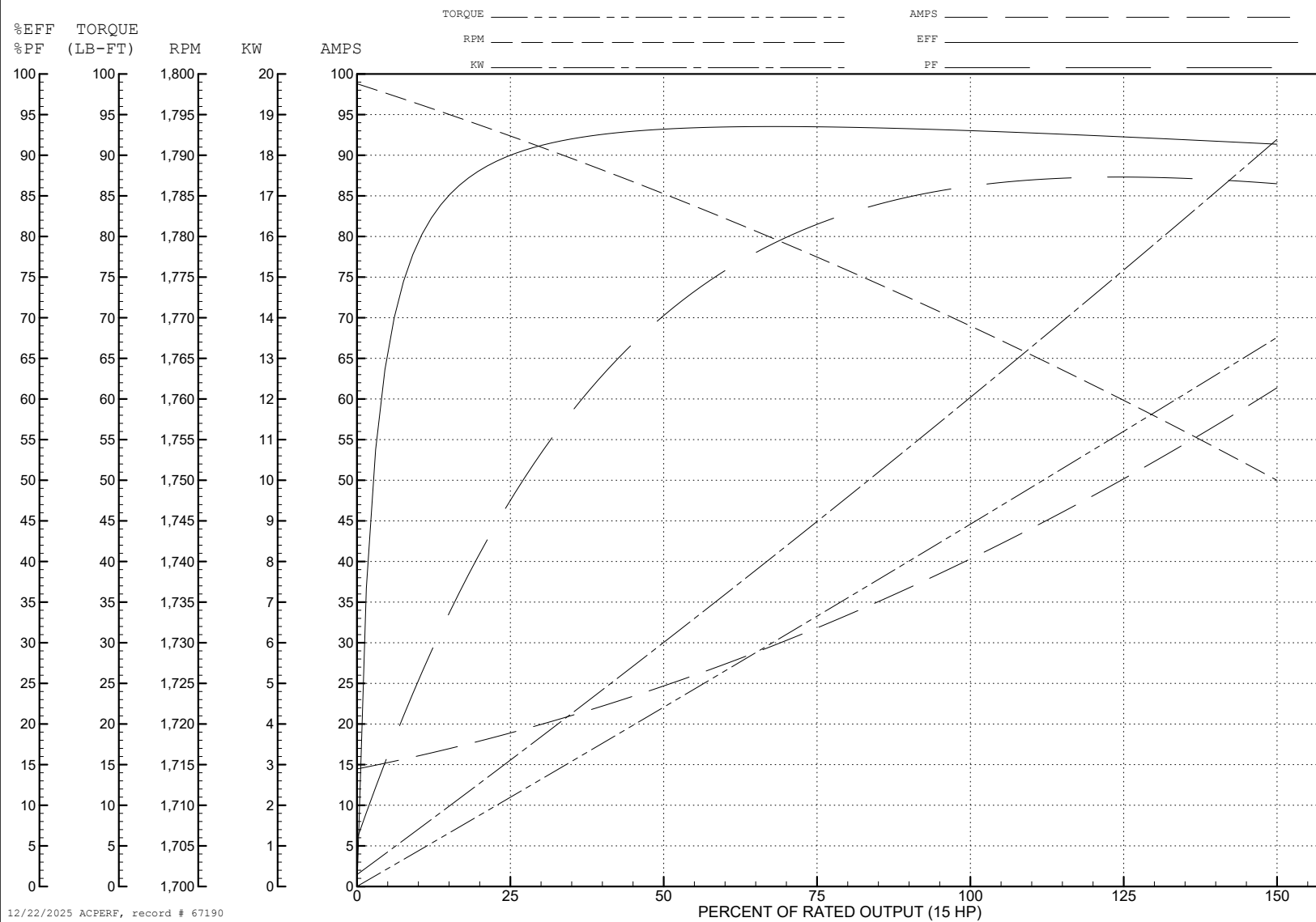
ABB Motors and Mechanical Inc.

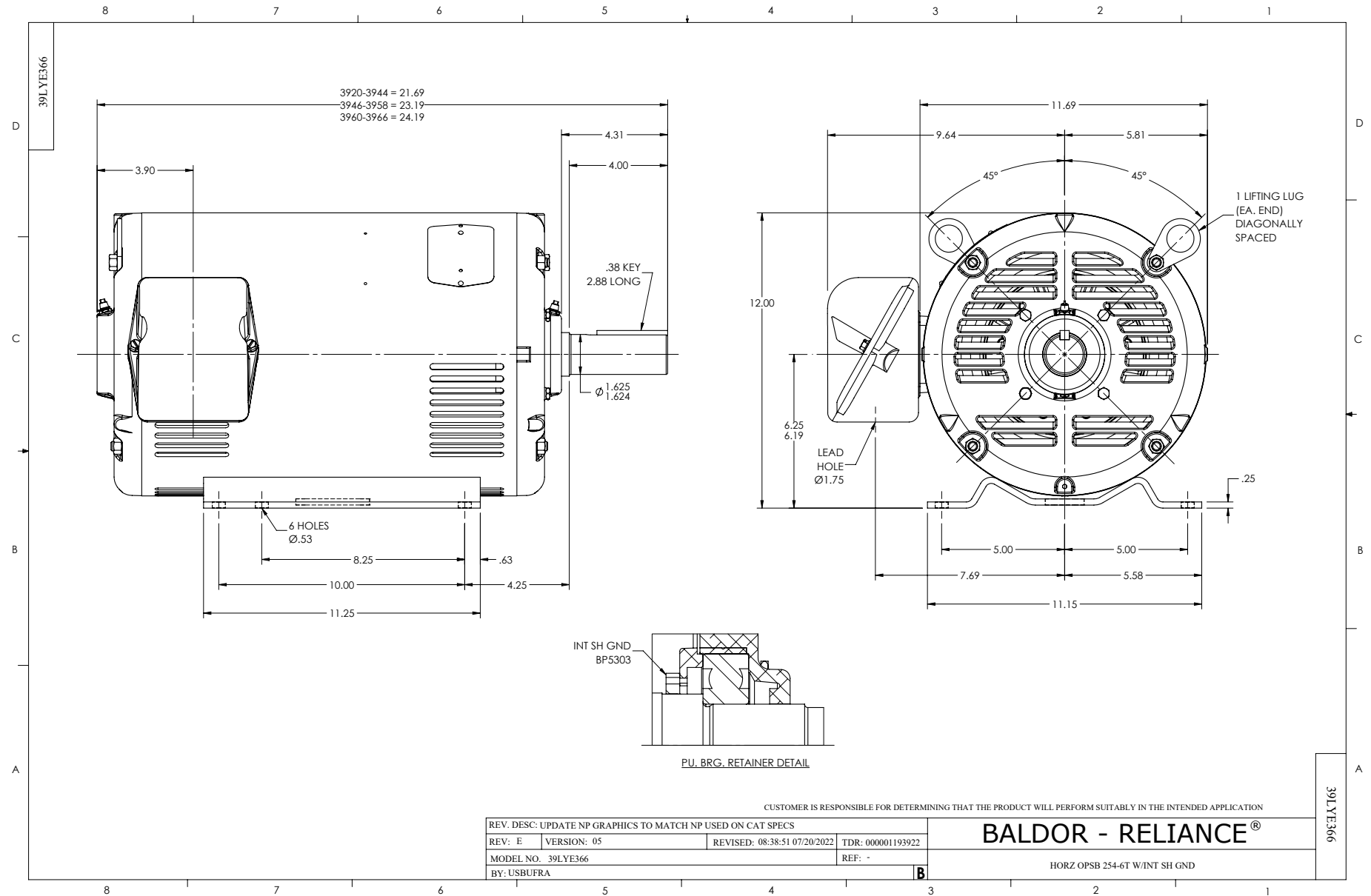
WINDING # 39WGY387

Typical performance - not guaranteed values.

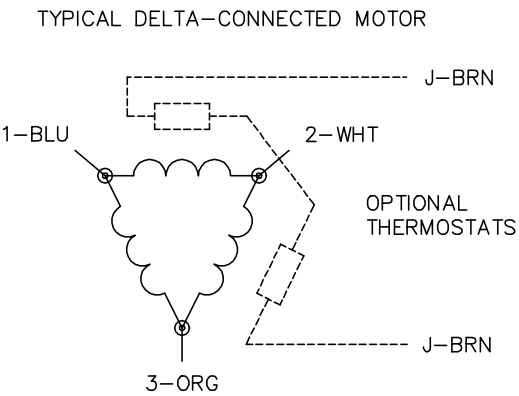
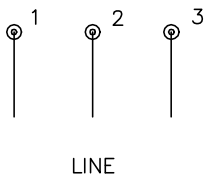
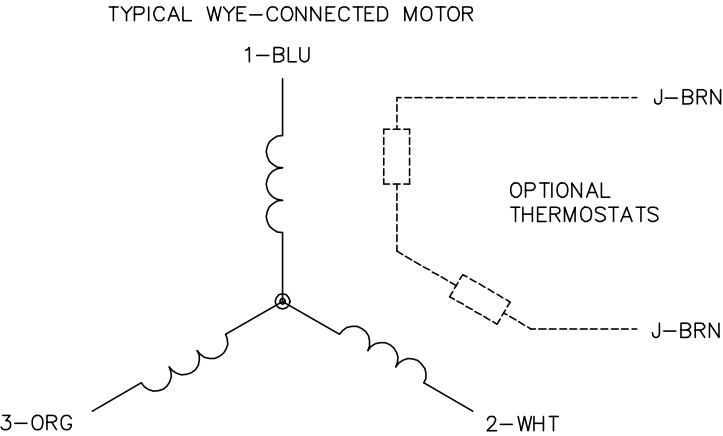
15 HP 3 PH 60 HZ 1765 RPM 200 V 3948M

TORQUES (LB-FT): PO=145 PU=62.18 LR=79.47 LRA=277





CD0006



- 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

SH 1 of 1