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# Customer information packet

## EJMM2514T

20HP, 3510RPM, 3PH, 60HZ, 254JM, 3928M, OPSB, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | OPSB                                                           |
| Frame                          | 254JM                                                          |
| 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  | 3600 RPM @ 60 HZ                                               |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 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              | 23.500 A @ 460.0 V<br>47.000 A @ 230.0 V<br>50.000 A @ 208.0 V |
| Design Code                    | A                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 91.0 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Heater Indicator               | No Heater                                                      |
| High Voltage Full Load Amps    | 23.5 a                                                         |

## Part detail

|              |            |
|--------------|------------|
| Revision     | H          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 39WGX101   |
| Layout       | 39LYK062   |
| Eff. date    | 06-26-2024 |
| CD Diagram   | CD0180     |
| Poles        | 02         |
| Leads        | 9#10       |
| Proprietary  | False      |
| Created date | 02-12-2021 |

|                            |                       |
|----------------------------|-----------------------|
| Insulation Class           | F                     |
| Inverter Code              | Inverter Ready        |
| KVA Code                   | G                     |
| Lifting Lugs               | Standard Lifting Lugs |
| Locked Bearing Indicator   | Locked Bearing        |
| Motor Lead Termination     | Flying Leads          |
| Motor Standards            | NEMA                  |
| Motor Type                 | 3928M                 |
| Mounting Arrangement       | F1                    |
| Number of Poles            | 2                     |
| Overall Length             | 23.19 IN              |
| Power Factor               | 88                    |
| Product Family             | General Purpose       |
| Pulley Face Code           | C-Face                |
| Rodent Screen              | Included              |
| Service Factor             | 1.15                  |
| Shaft Diameter             | 1.250 IN              |
| Shaft Ground Indicator     | No Shaft Grounding    |
| Shaft Rotation             | Reversible            |
| Speed                      | 3510 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

| NP1259LUA      |                           |      |   |      |    |       |   |  |       |
|----------------|---------------------------|------|---|------|----|-------|---|--|-------|
| CAT.NO.        | EJMM2514T                 |      |   |      |    |       |   |  |       |
| SPEC.          | 39-0000-0372              |      |   |      |    |       |   |  |       |
| HP             | 20                        |      |   |      |    |       |   |  |       |
| VOLTS          | 230/460                   |      |   |      |    |       |   |  |       |
| AMPS           | 47/23.5                   |      |   |      |    |       |   |  |       |
| R.P.M.         | 3510                      |      |   |      |    |       |   |  |       |
| FRAME          | 254JM                     | HZ   |   | 60   | PH |       | 3 |  |       |
| SER.F.         | 1.15                      | CODE | G | DES  | A  | CLASS | F |  |       |
| NEMA NOM. EFF. | 91                        | P.F. |   | 88   |    |       |   |  |       |
| RATING         | 40C AMB-CONT              |      |   |      |    |       |   |  |       |
| CC             | 010A                      |      |   |      |    |       |   |  |       |
| DE             | 6309                      | ODE  |   | 6208 |    |       |   |  |       |
| ENCL           | OPSB                      | SN   |   |      |    |       |   |  |       |
| USABLE AT      | 50HZ 20HP 190/380V 56/28A |      |   |      |    |       |   |  | SF1.0 |

**AC Induction Motor Performance Data**

Record # 13049

Typical performance - not guaranteed values

| Winding: 39WGX101-R004 |    |              |              | Type: 3928M                              |  | Enclosure: OPSB |  |
|------------------------|----|--------------|--------------|------------------------------------------|--|-----------------|--|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |    | 20           |              | Full Load Torque                         |  | 29.6 LB-FT      |  |
| Volts                  |    | 230/460      |              | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |    | 47/23.5      |              | Breakdown Torque                         |  | 111 LB-FT       |  |
| R.P.M.                 |    | 3510         |              | Pull-up Torque                           |  | 36.1 LB-FT      |  |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |  | 50.6 LB-FT      |  |
| NEMA Design Code       |    | B            | KVA Code     | Starting Current                         |  | 153 A           |  |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |  | 8.61 A          |  |
| NEMA Nom. Eff.         |    | 91           | Power Factor | Line-line Res. @ 25°C                    |  | 0.512 Ω         |  |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |  | 44°C            |  |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                   |  | 54°C            |  |
|                        |    |              |              | Locked-rotor Power Factor                |  | 30              |  |
|                        |    |              |              | Rotor inertia                            |  | 0.715 lb-ft²    |  |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F.  |
|-----------------|------|------|------|------|------|------|-------|
| Power Factor    | 52   | 74   | 83   | 87   | 89   | 89   | 88    |
| Efficiency      | 84.7 | 90.1 | 91.2 | 91   | 90.1 | 89.1 | 90.5  |
| Speed           | 3581 | 3563 | 3544 | 3522 | 3496 | 3472 | 3506  |
| Line amperes    | 10.2 | 13.9 | 18.1 | 23.3 | 29.1 | 35   | 26.78 |

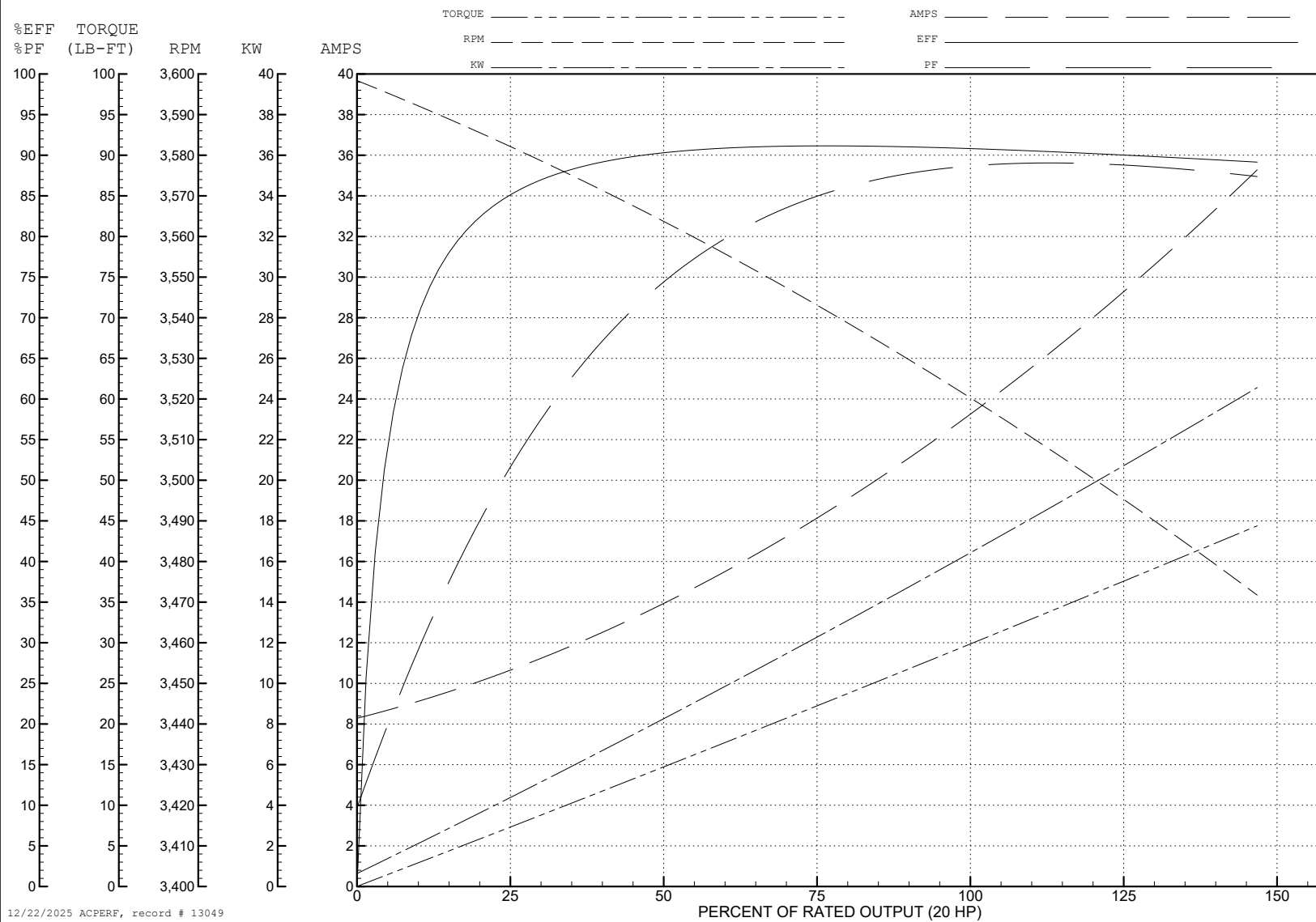
ABB Motors and Mechanical Inc.

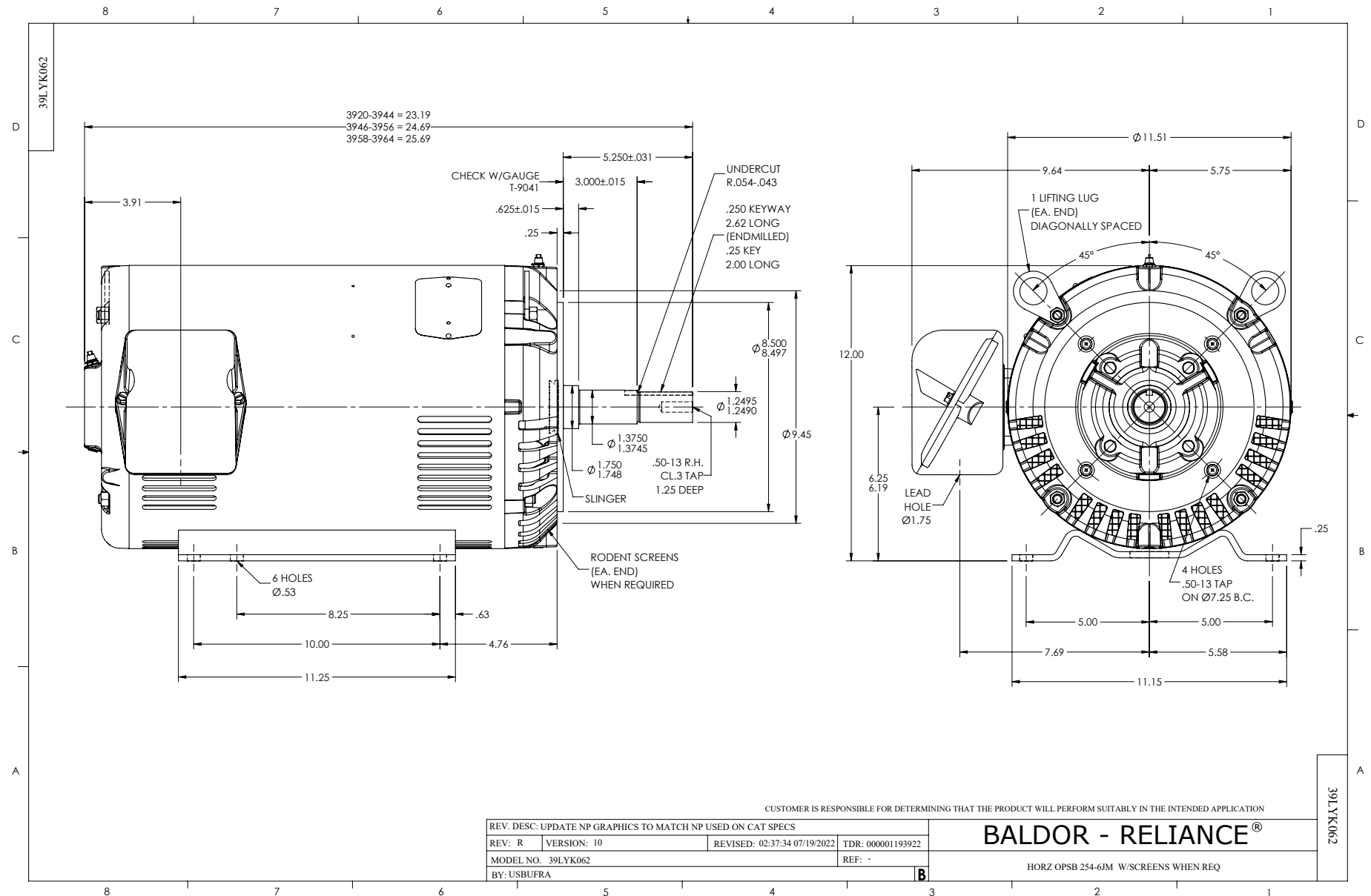
WINDING # 39WGX101

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 3510 RPM 460 V 3928M

TORQUES (LB-FT): PO=111 PU=36.1 LR=50.6 LRA=153





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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