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# Customer information packet

## EM3558T-8

2HP, 1765RPM, 3PH, 60HZ, 145T, 3528M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Enclosure                      | TEFC                                          |
| Frame                          | 145T                                          |
| 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             | 2.000 HP @ 60 HZ                              |
| Phase                          | 3                                             |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                              |
| Voltage @ Frequency            | 200.0 V @ 60 HZ                               |
| Agency Approvals               | CSA EEV<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              | 6.700 A @ 200.0 V                             |
| Design Code                    | B                                             |
| Drip Cover                     | No Drip Cover                                 |
| Duty Rating                    | CONT                                          |
| Efficiency @ 100% Load         | 86.5 %                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                     |
| Feedback Device                | NO FEEDBACK                                   |
| Front Shaft Indicator          | None                                          |
| Heater Indicator               | No Heater                                     |
| High Voltage Full Load Amps    | 6.7 a                                         |
| Insulation Class               | F                                             |

## Part detail

|              |            |
|--------------|------------|
| Revision     | G          |
| Type         | AC         |
| Mech. spec.  | 35A001     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG112   |
| Layout       | 35LYA001   |
| Eff. date    | 02-26-2025 |
| CD Diagram   | CD0006     |
| Poles        | 04         |
| Leads        | 3#18       |
| Proprietary  | False      |
| Created date | 03-11-2022 |

|                                      |                      |
|--------------------------------------|----------------------|
| <b>Inverter Code</b>                 | <b>Inverter Duty</b> |
| <b>IP Rating</b>                     | NONE                 |
| <b>KVA Code</b>                      | K                    |
| <b>Lifting Lugs</b>                  | No Lifting Lugs      |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing    |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 18 AWG           |
| <b>Motor Lead Termination</b>        | Flying Leads         |
| <b>Motor Standards</b>               | NEMA                 |
| <b>Motor Type</b>                    | 3528M                |
| <b>Mounting Arrangement</b>          | F1                   |
| <b>Number of Poles</b>               | 4                    |
| <b>Overall Length</b>                | 13.31 IN             |
| <b>Power Factor</b>                  | 82                   |
| <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>                | 0.875 IN             |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding   |
| <b>Shaft Rotation</b>                | Reversible           |
| <b>Shaft Slinger Indicator</b>       | No Slinger           |
| <b>Speed</b>                         | 1765 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                 |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor  |
| <b>Winding Thermal 1</b>             | None                 |
| <b>Winding Thermal 2</b>             | None                 |

## Nameplate

| NP3441L                   |              |    |      |  |      |     |   |    |   |   |  |  |
|---------------------------|--------------|----|------|--|------|-----|---|----|---|---|--|--|
| CAT.NO.                   | EM3558T-8    |    |      |  |      |     |   |    |   |   |  |  |
| SPEC.                     | 35A001G112G1 |    |      |  |      |     |   |    |   |   |  |  |
| HP                        | 2            |    |      |  |      |     |   |    |   |   |  |  |
| VOLTS                     | 200          |    |      |  |      |     |   |    |   |   |  |  |
| AMP                       | 6.7          |    |      |  |      |     |   |    |   |   |  |  |
| RPM                       | 1765         |    |      |  |      |     |   |    |   |   |  |  |
| FRAME                     | 145T         |    | HZ   |  | 60   |     |   | PH |   | 3 |  |  |
| SER.F.                    | 1.15         |    | CODE |  | K    | DES | B | CL | F |   |  |  |
| NEMA-NOM-EFF              | 86.5         |    | PF   |  | 82   |     |   |    |   |   |  |  |
| RATING                    | 40C AMB-CONT |    |      |  |      |     |   |    |   |   |  |  |
| CC                        | 010A         |    |      |  |      |     |   |    |   |   |  |  |
| DE                        | 6205         |    | ODE  |  | 6203 |     |   |    |   |   |  |  |
| ENCL                      | TEFC         | SN |      |  |      |     |   |    |   |   |  |  |
| VPWM INVERTER READY       |              |    |      |  |      |     |   |    |   |   |  |  |
| CT6-60H(10:1)VT3-60H(20:1 |              |    |      |  |      |     |   |    |   |   |  |  |
| SFA 7.28                  |              |    |      |  |      |     |   |    |   |   |  |  |

**Accessories**

| Part number   | Description  | Multiplier |
|---------------|--------------|------------|
| 35-8762       | C FACE KIT   | A8         |
| 35EP1506A01SP | D-FLANGE KIT | A8         |

**AC Induction Motor Performance Data**

Record # 81991

Typical performance - not guaranteed values

| Winding: 35WGG112-R003 |    |              | Type: 3526M                           |                           | Enclosure: TEFC       |              |         |
|------------------------|----|--------------|---------------------------------------|---------------------------|-----------------------|--------------|---------|
| Nameplate Data         |    |              | 200 V, 60 Hz:<br>Single Voltage Motor |                           |                       |              |         |
| Rated Output (HP)      |    | 2            | Full Load Torque                      |                           | 5.95 LB-FT            |              |         |
| Volts                  |    | 200          | Start Configuration                   |                           | direct on line        |              |         |
| Full Load Amps         |    | 6            | Breakdown Torque                      |                           | 23.11 LB-FT           |              |         |
| R.P.M.                 |    | 1755         | Pull-up Torque                        |                           | 14 LB-FT              |              |         |
| Hz                     | 60 | Phase        | 3                                     | Locked-rotor Torque       |                       | 16.93 LB-FT  |         |
| NEMA Design Code       |    | B            | KVA Code                              | K                         | Starting Current      |              | 55.76 A |
| Service Factor (S.F.)  |    | 1.15         | No-load Current                       |                           | 3.84 A                |              |         |
| NEMA Nom. Eff.         |    | 86.5         | Power Factor                          | 82                        | Line-line Res. @ 25°C |              | 1.86 Ω  |
| Rating - Duty          |    | 40C AMB-CONT |                                       | Temp. Rise @ Rated Load   |                       | 58°C         |         |
| S.F. Amps              |    |              |                                       | Temp. Rise @ S.F. Load    |                       | 69°C         |         |
|                        |    |              |                                       | Locked-rotor Power Factor |                       | 56.9         |         |
|                        |    |              |                                       | Rotor inertia             |                       | 0.188 lb-ft² |         |

**Load Characteristics 200 V, 60 Hz, 2 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 35   | 55   | 69   | 77   | 81   | 84   | 79   |
| Efficiency      | 77.5 | 85   | 86.7 | 86.4 | 85.1 | 83.5 | 85.6 |
| Speed           | 1791 | 1783 | 1774 | 1765 | 1756 | 1744 | 1760 |
| Line amperes    | 4.03 | 4.6  | 5.44 | 6.5  | 7.8  | 9.13 | 7.28 |

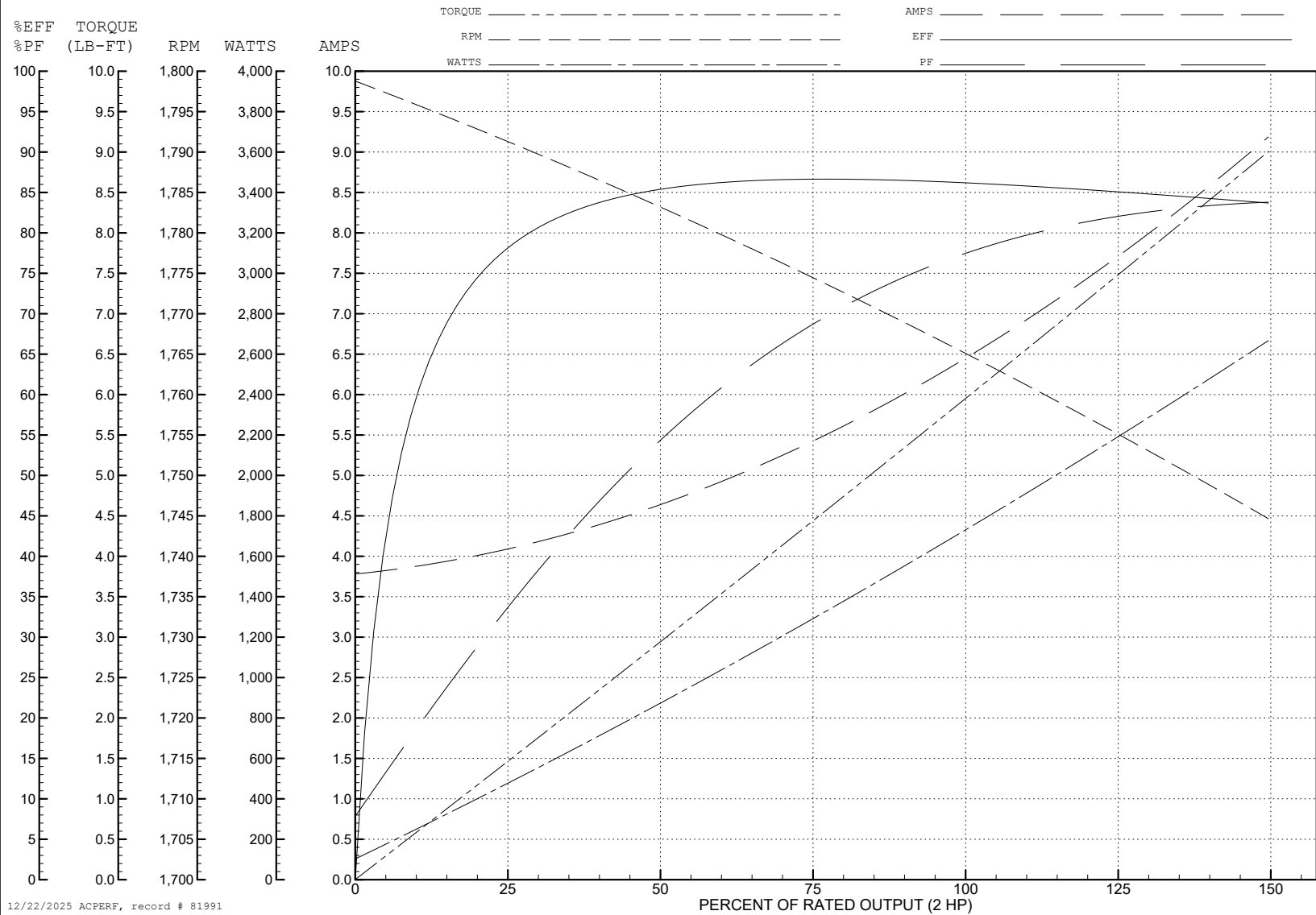
ABB Motors and Mechanical Inc.

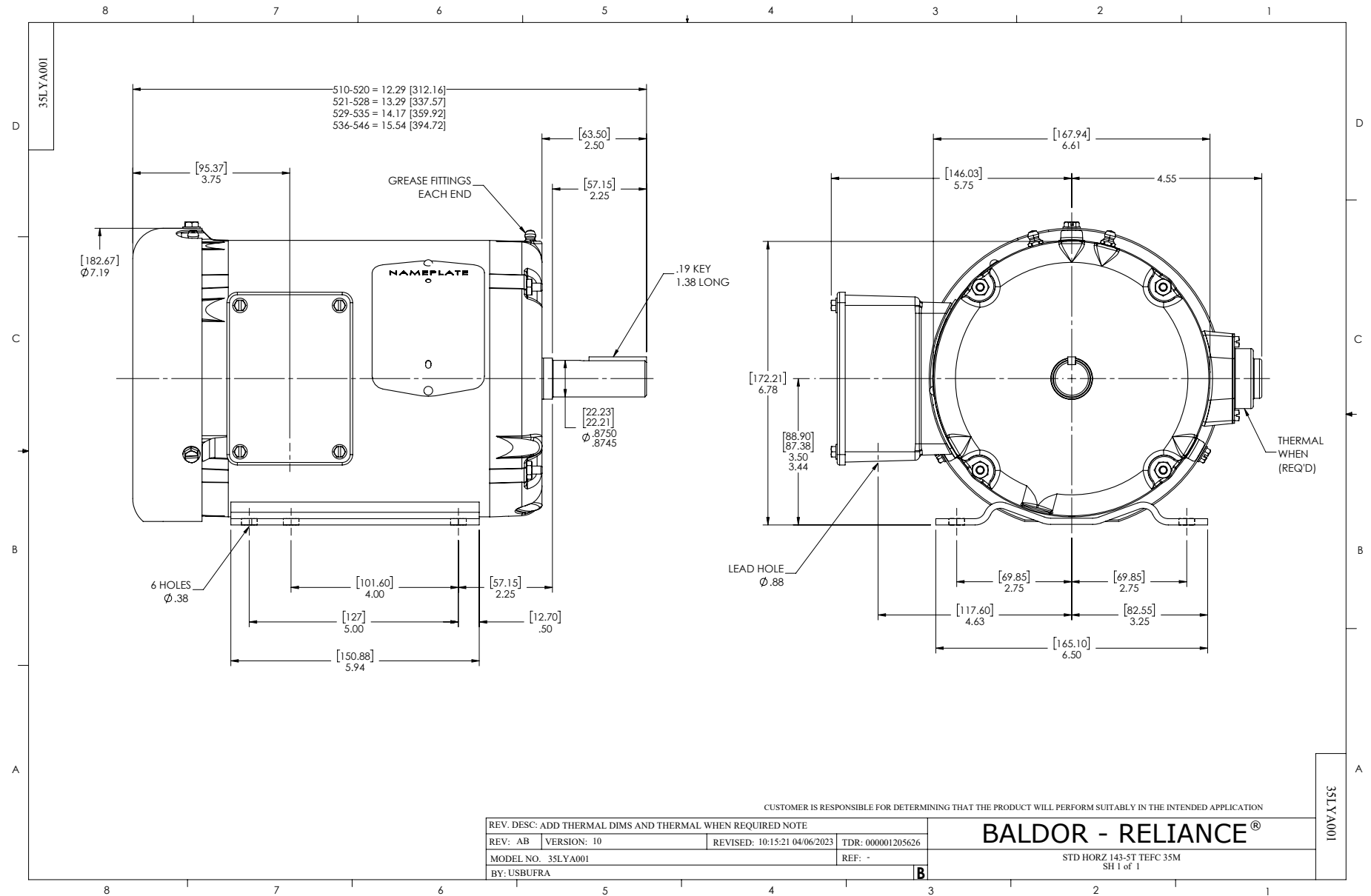
WINDING # 35WGG112

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1755 RPM 200 V 3526M

TORQUES (LB-FT): PO=23.11 PU=14 LR=16.93 LRA=55.76





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