



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 NEMA PREMIUM NEMA_PREMIUM UR |
| Ambient Temperature | 40 °C |
| Auxillary Box | No Auxillary Box |
| Auxillary 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 |

| | |
|--------------------------------------|----------------------|
| Inverter Code | Inverter Duty |
| IP Rating | NONE |
| KVA Code | K |
| Lifting Lugs | No Lifting Lugs |
| Locked Bearing Indicator | No Locked Bearing |
| Motor Lead Quantity/Wire Size | 3 @ 18 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 3528M |
| Mounting Arrangement | F1 |
| Number of Poles | 4 |
| Overall Length | 13.31 IN |
| Power Factor | 82 |
| 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 | 0.875 IN |
| Shaft Ground Indicator | No 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

| 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: 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 | Locked-rotor Torque | 16.93 LB-FT | | |
| NEMA Design Code | B KVA Code | Starting Current | 55.76 A | | |
| Service Factor (S.F.) | 1.15 | No-load Current | 3.84 A | | |
| NEMA Nom. Eff. | 86.5 Power Factor | 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-ft ² | | |

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 |

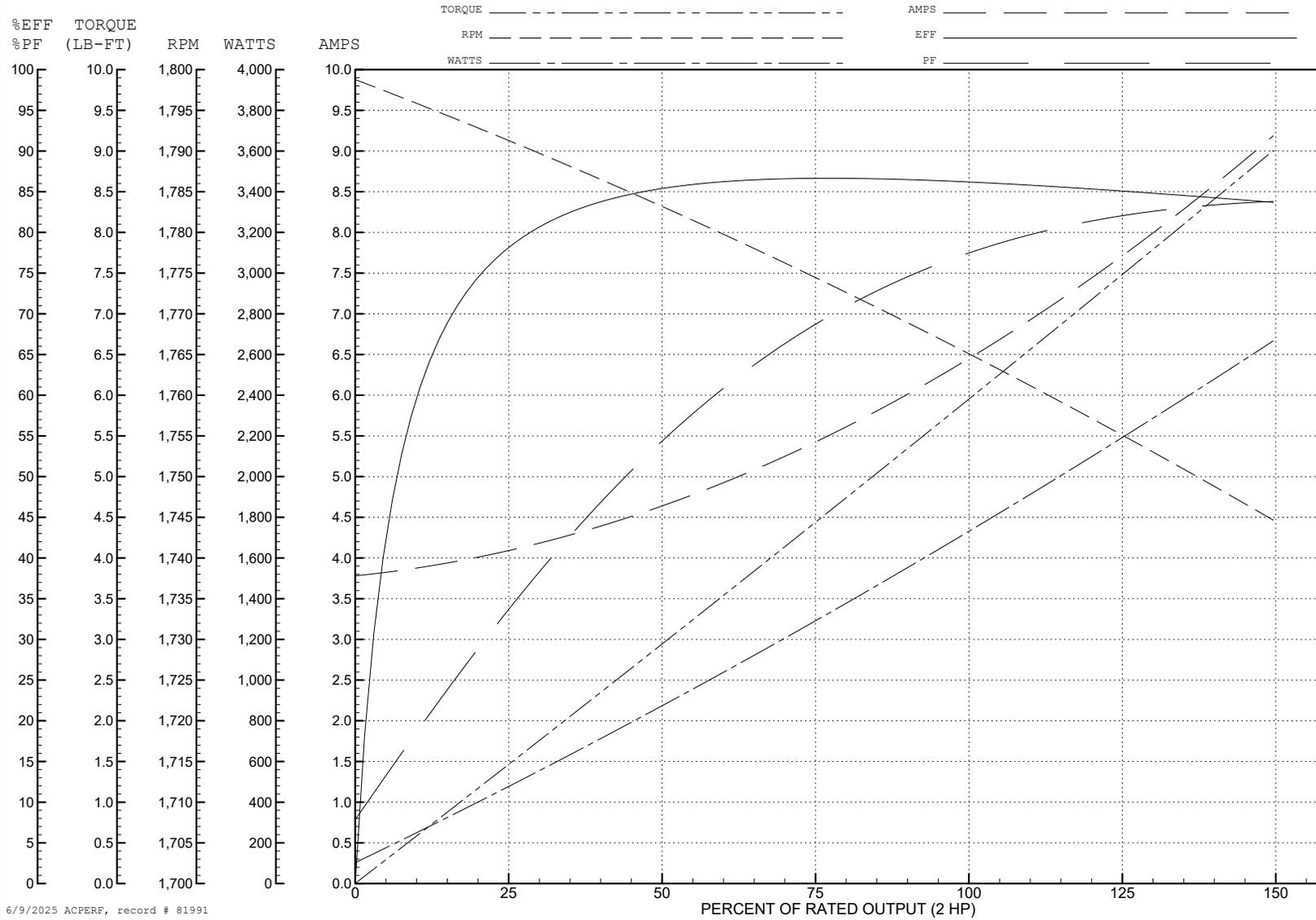
ABB Motors and Mechanical Inc.

WINDING # 35WGG112

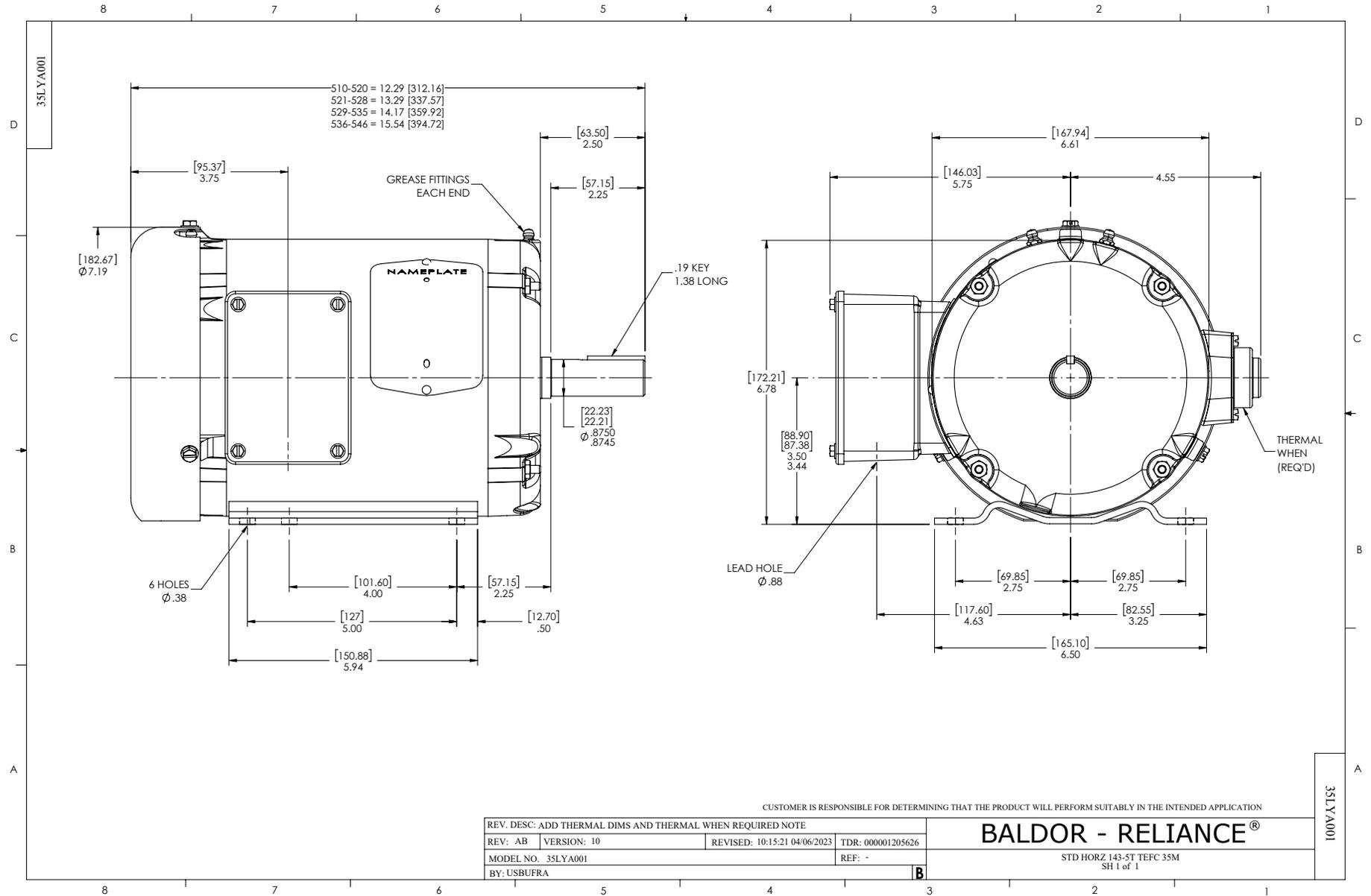
Typical performance - not guaranteed values.

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



6/9/2025 ACPERF, record # 81991



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

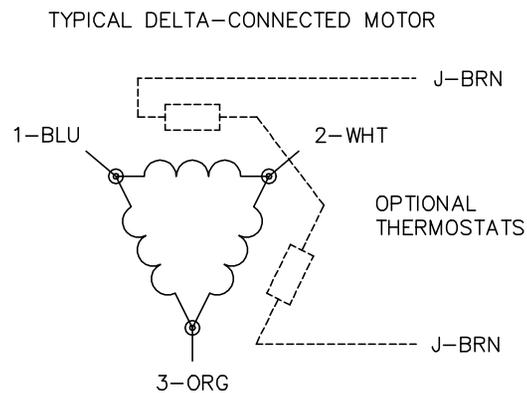
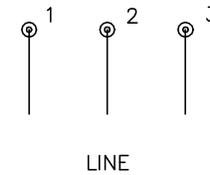
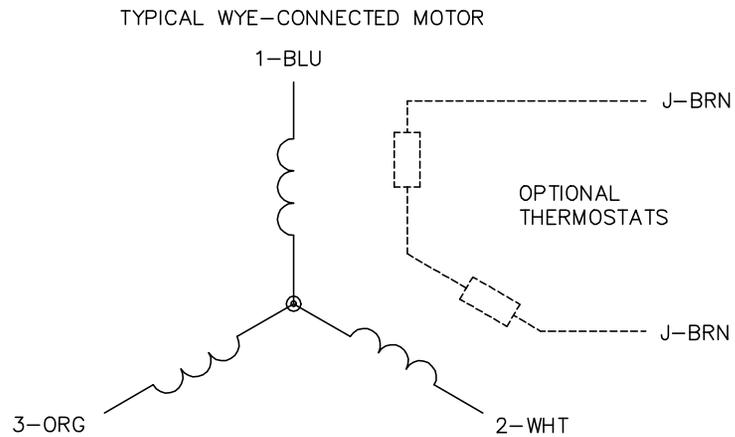
| | | | |
|--|-------------|------------------------------|-------------------|
| REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE | | | |
| REV: AB | VERSION: 10 | REVISED: 10/15/21 04/06/2023 | TDR: 000001205626 |
| MODEL NO. 35LYA001 | | REF: - | |
| BY: USBUFRA | | | |

BALDOR - RELIANCE®

STD HORZ 143-5T TEFC 35M
SH 1 of 1

35LYA001

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: - | © □ | |

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1