ABB BALDOR RELIANCE

# Customer information packet

## EM2334T-5

20HP, 1770RPM, 3PH, 60HZ, 256T, 0960M, TEFC, F1
Class - None
Division - Not Applicable

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11/19/2026 1:12:30 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 256T |
| **Frame Material** | Iron |
| **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** | 575.0 V @ 60 HZ |
| **Agency Approvals** | NEMA PREMIUM (OLD LOGO)<br>CURUSEEV<br>NEMA PREMIUM |
| **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** | 19.200 A @ 575.0 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** | 19.2 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | Y |
| **Type** | AC |
| **Mech. spec.** | 09P11 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 09WGT507 |
| **Layout** | 09LYP011 |
| **Eff. date** | 04-16-2024 |
| **CD Diagram** | CD0006 |
| **Poles** | 04 |
| **Leads** | 3#10 |
| **Proprietary** | False |
| **Created date** | 11-24-2017 |

| | |
|---|---|
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 3 @ 10 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0960M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 23.36 IN |
| **Power Factor** | 83 |
| **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** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1770 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.** | EM2334T-5 | | | | | | | | |
| **SPEC.** | 09P011T507 | | | | | | | | |
| **HP** | 20 | | | | | | | | |
| **VOLTS** | 575 | | | | | | | | |
| **AMP** | 19.2 | | | | | | | | |
| **RPM** | 1770 | | | | | | | | |
| **FRAME** | 256T | | **HZ** | 60 | | | **PH** | 3 | |
| **SER.F.** | 1.15 | **CODE** | J | **DES** | A | **CL** | F | | |
| **NEMA-NOM-EFF** | 93 | **PF** | 83 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **DE** | 6309 | | **ODE** | 6208 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | |
| | SFA 21.7 | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 67979
Typical performance - not guaranteed values

| **Winding:** 09WGT507-R001 | **Type:** 0960M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 20 | **Full Load Torque** | 59.29 LB-FT |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 19.2 | **Breakdown Torque** | 231 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 126 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 140 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | J | **Starting Current** | 158 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 8.28 A |
| **NEMA Nom. Eff.** | 93 | **Power Factor** | 83 | **Line-line Res. @ 25ºC** | 0.499 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** | 26.5 |
| | | | | **Rotor inertia** | 2.65 lb-ft² |

**Load Characteristics 575 V, 60 Hz, 20 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 45 | 67 | 78 | 83 | 86 | 87 | 85 |
| **Efficiency** | 89.2 | 93 | 93.7 | 93.5 | 93.1 | 92.4 | 93.3 |
| **Speed** | 1793 | 1786 | 1779 | 1772 | 1764 | 1755 | 1767 |
| **Line amperes** | 9.41 | 11.99 | 15.34 | 19.19 | 23.44 | 27.92 | 21.7 |

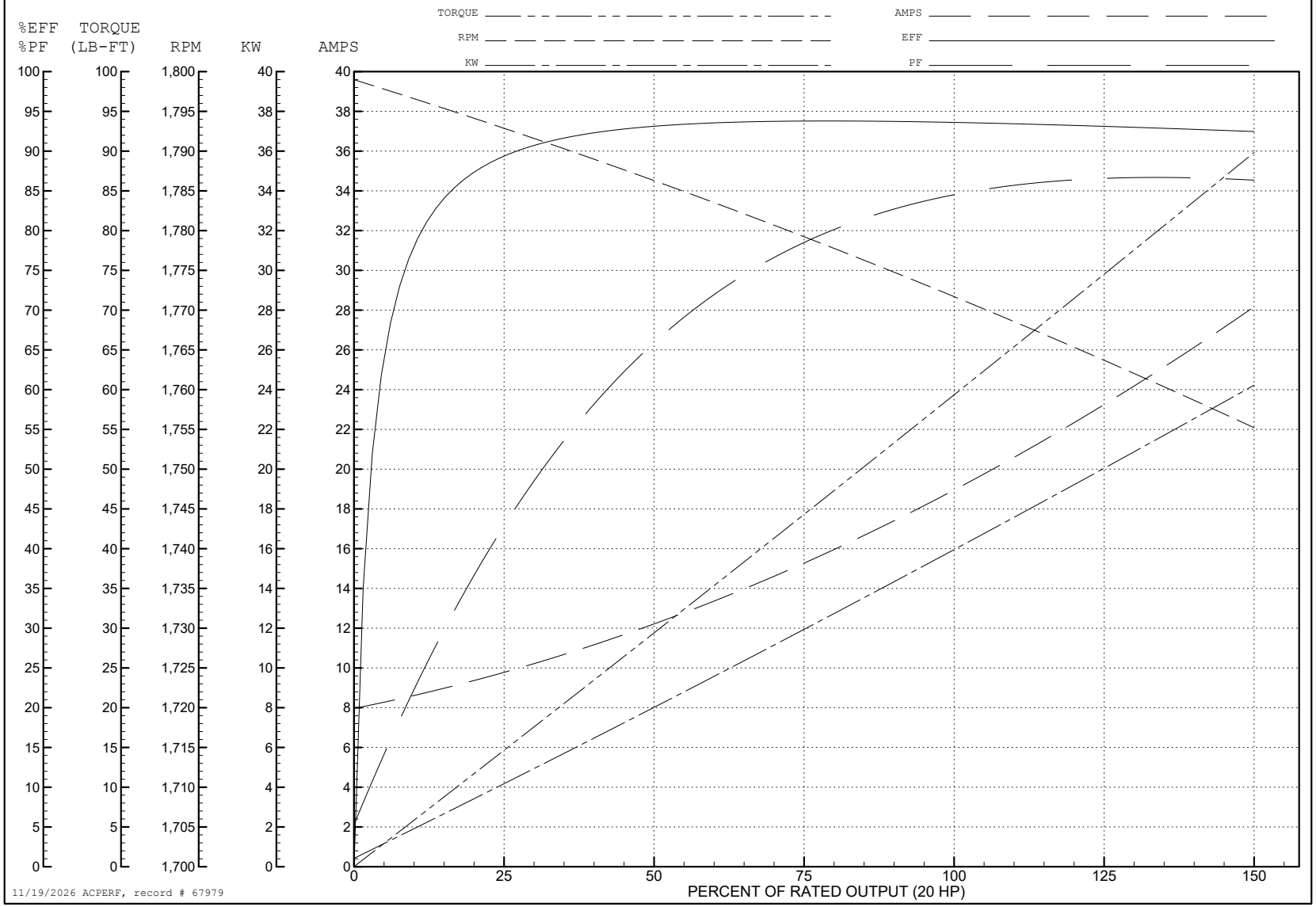
ABB Motors and Mechanical Inc.

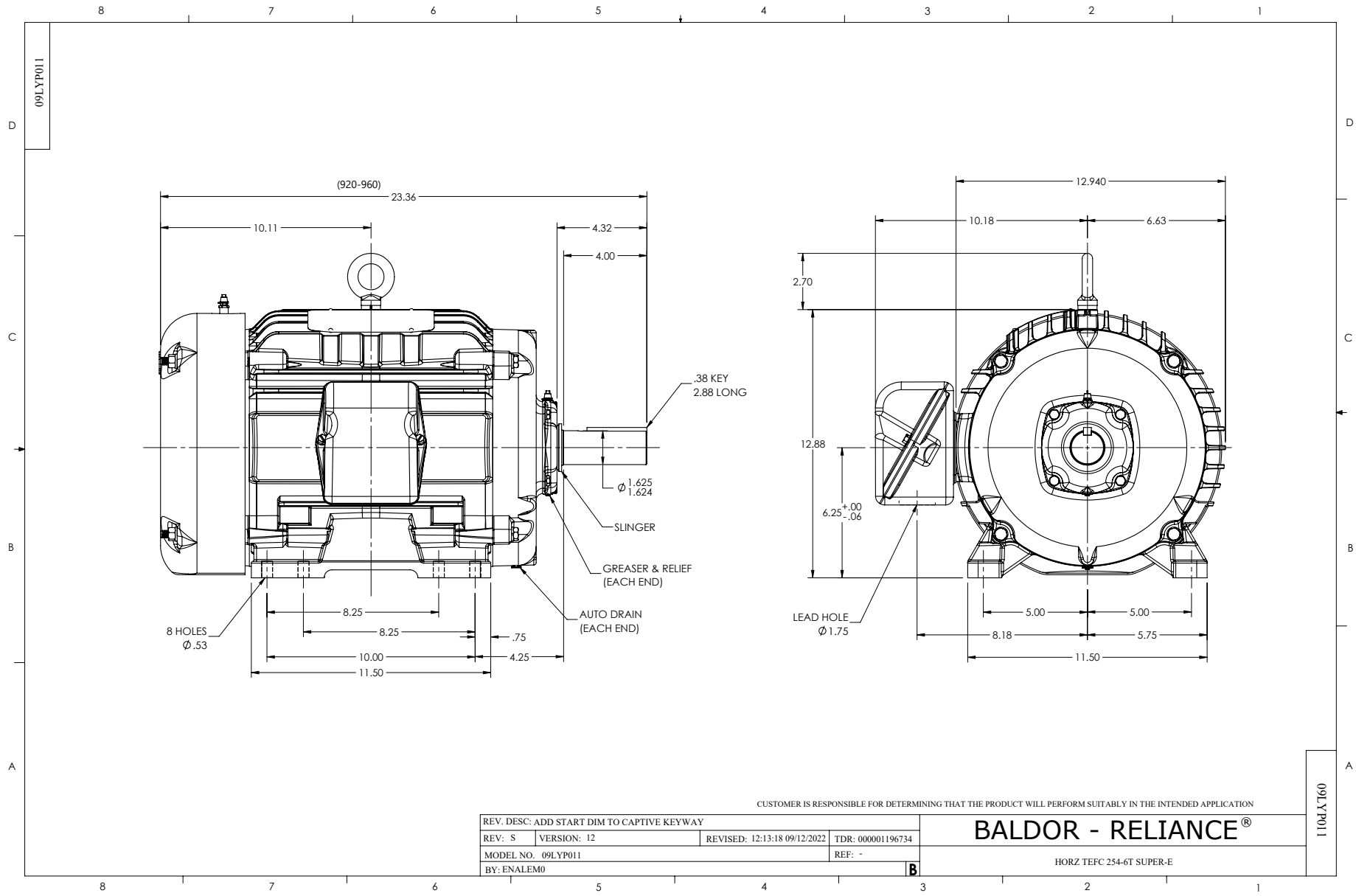
WINDING # 09WGT507

20 HP 3 PH 60 HZ 1770 RPM 575 V 0960M

Typical performance - not guaranteed values.

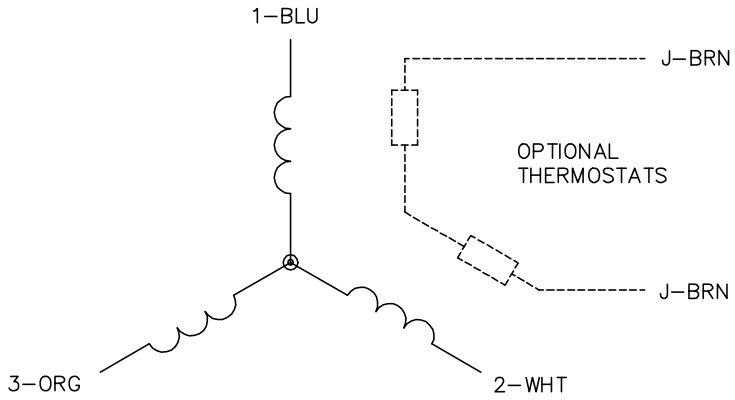
TORQUES(LB-FT): PO=231 PU=126 LR=140 LRA=158

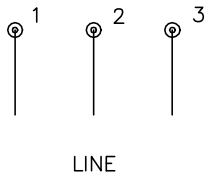



09LYP011
(920-960)
23.36
10.11
4.32
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
SLINGER
GREASER & RELIEF
(EACH END)
AUTO DRAIN
(EACH END)
8 HOLES
Ø .53
8.25
8.25
.75
10.00
4.25
11.50
12.940
10.18
6.63
2.70
12.88
6.25 +.00 -.06
LEAD HOLE
Ø 1.75
5.00
5.00
8.18
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD START DIM TO CAPTIVE KEYWAY
REV: S
VERSION: 12
REVISED: 12:13:18 09/12/2022
TDR: 000001196734
MODEL NO. 09LYP011
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6T SUPER-E
09LYP011

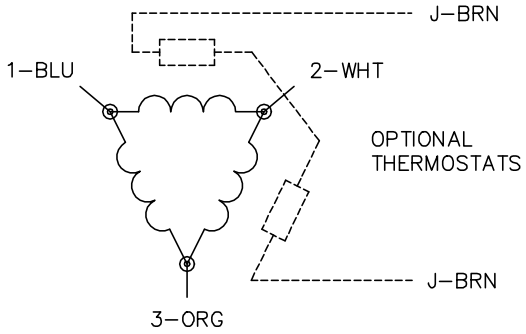
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




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: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

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

SH 1 of 1