

BALDOR® • RELIANCE™

Customer information packet

EMVM3714D

7.5KW, 1770RPM, 3PH, 60HZ, D132MD, 3752M, TEFC

Class - None

Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.

6/9/2025 4:38:47 AM

Specifications

| | |
|--------------------------------|--|
| Enclosure | TEFC |
| Frame | D132MD |
| 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 | 7.500 KW @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ |
| Voltage @ Frequency | 230.0 V @ 60 HZ 460.0 V @ 60 HZ |
| Agency Approvals | CE CSA EEV NEMA PREMIUM WEEE |
| Ambient Temperature | 40 °C |
| Auxillary Box | No Auxillary Box |
| Auxillary Box Lead Termination | None |
| Base Indicator | No Mounting |
| Bearing Grease Type | Polyrex EM (-20F +300F) |
| Blower | None |
| Current @ Voltage | 27.000 A @ 208.0 V 25.000 A @ 230.0 V 12.500 A @ 460.0 V |
| Design Code | A |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 91.7 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Feedback Device | NO FEEDBACK |
| Frame Prefix | D |

Part detail

| | |
|--------------|------------|
| Revision | C |
| Type | AC |
| Mech. spec. | 37E651 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 37WGL865 |
| Layout | 37LYE651 |
| Eff. date | 05-01-2024 |
| CD Diagram | CD0005 |
| Poles | 04 |
| Leads | 9#14 |
| Proprietary | False |
| Created date | 02-01-2021 |

| | |
|-------------------------------|-----------------------|
| Front Shaft Indicator | None |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 12.5 a |
| Insulation Class | F |
| Inverter Code | Inverter Ready |
| KVA Code | K |
| Lifting Lugs | Standard Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | IEC |
| Motor Type | 3752M |
| Mounting Arrangement | B5 |
| Number of Poles | 4 |
| Overall Length | 21.97 IN |
| Power Factor | 85 |
| Product Family | General Purpose |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | D-Flange |
| Pulley Shaft Indicator | Tapped & Key |
| Rodent Screen | None |
| Service Factor | 1.15 |
| Shaft Diameter | 1.497 IN |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Shaft Slinger Indicator | No 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

| NP2672L | | | |
|---------------------|--------------|-----------------------|-----------------|
| CAT.NO. | EMVM3714D | | |
| SPEC. | 37E651L865G1 | | |
| IEC FRAME | D132MD | KW | 7.5 |
| VOLTS | 230/460 | | |
| AMP | 25/12.5 | | |
| RPM | 1770 | ENCL | TEFC |
| HZ | 60 | PH | 3 CL F |
| SER.F. | 1.15 | DES | A CODE K |
| NEMA-NOM-EFF | 91.7 | I.P. | 54 |
| RATING | 40C AMB-CONT | | |
| CC | 010A | USABLE AT 208V | N/A |
| DE | 6309 | ODE | 6206 |
| SER. # | | | |

AC Induction Motor Performance Data

Record # 86469

Preliminary Data Sheet

| Winding: 37WGL865-R006 | | Type: 3752M | Enclosure: TEFC | |
|------------------------|-------------------|--|---------------------------|-------------------------|
| Nameplate Data | | 460 V, 60 Hz: High Voltage Connection | | |
| Rated Output (KW) | 7.5 | Full Load Torque | 29.7 LB-FT | |
| Volts | 230/460 | Start Configuration | direct on line | |
| Full Load Amps | 25/12.5 | Breakdown Torque | 102 LB-FT | |
| R.P.M. | 1770 | Pull-up Torque | 46.9 LB-FT | |
| Hz | 60 Phase | 3 | Locked-rotor Torque | 62.2 LB-FT |
| NEMA Design Code | A KVA Code | K | Starting Current | 101 A |
| Service Factor (S.F.) | | 1.15 | No-load Current | 5.33 A |
| NEMA Nom. Eff. | 91.7 Power Factor | 85 | Line-line Res. @ 25°C | 0.982 Ω |
| Rating - Duty | | 40C AMB-CONT | Temp. Rise @ Rated Load | 69°C |
| S.F. Amps | | 28.2/14.6 | Temp. Rise @ S.F. Load | 92°C |
| | | | Locked-rotor Power Factor | 42 |
| | | | Rotor inertia | 1.28 lb-ft ² |

Load Characteristics 460 V, 60 Hz, 7.5 KW

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor | 44 | 66 | 77 | 82 | 84 | 85 | 84 |
| Efficiency | 88.7 | 92.3 | 92.7 | 92.2 | 91.3 | 90 | 91.4 |
| Speed | 1793 | 1786 | 1778 | 1770 | 1761 | 1751 | 1762 |
| Line amperes | 6.05 | 7.73 | 9.9 | 12.5 | 15.3 | 18.3 | 14.1 |

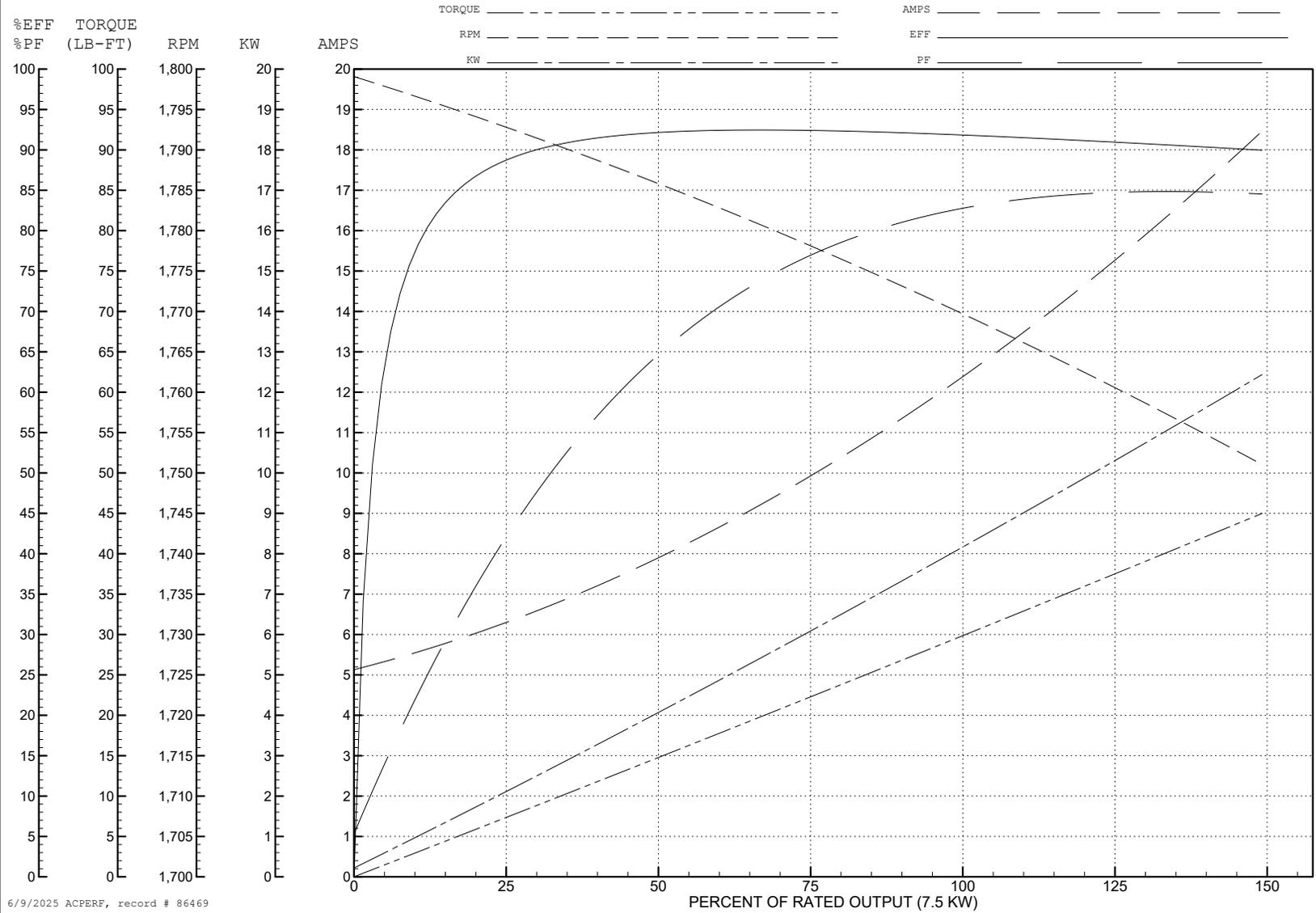
ABB Motors and Mechanical Inc.

WINDING # 37WGL865

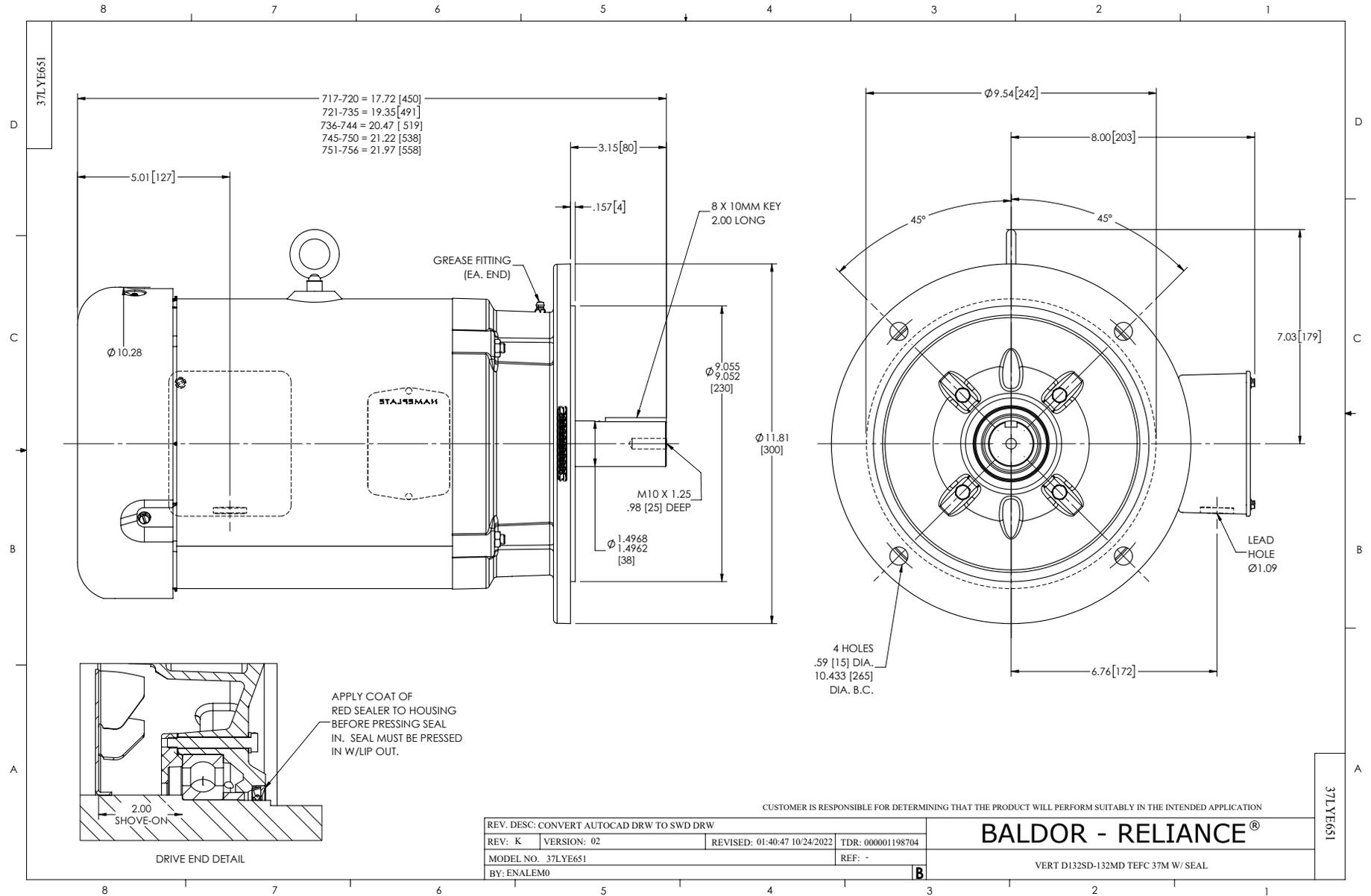
Typical performance - not guaranteed values.

7.5 KW 3 PH 60 HZ 1770 RPM 460 V 3752M

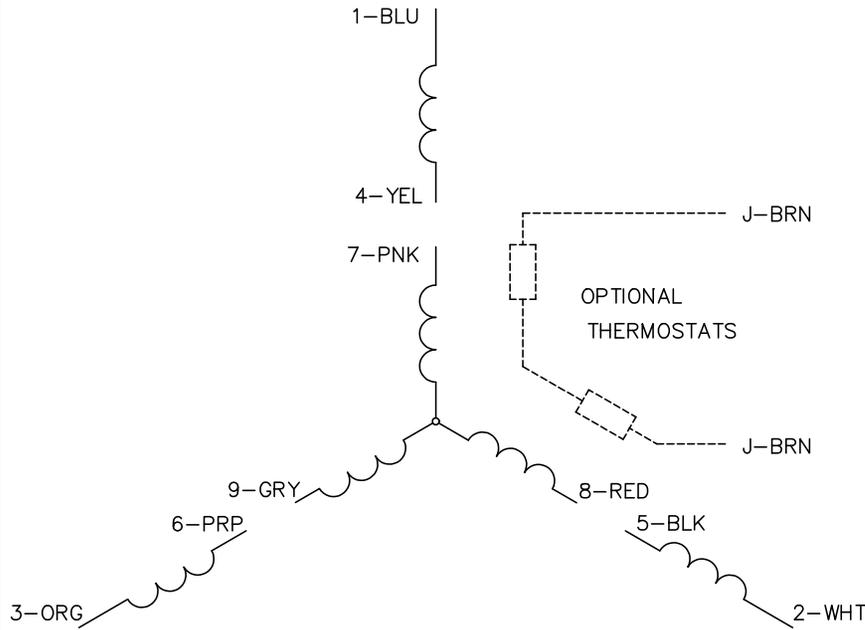
TORQUES (LB-FT): PO=102 PU=46.9 LR=62.2 LRA=101



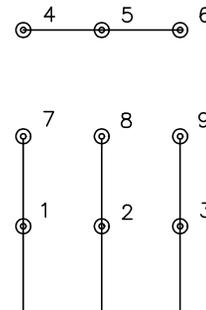
6/9/2025 ACPERF, record # 86469



CD0005

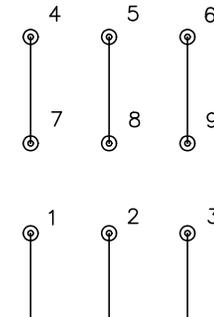


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

CD0005

| | | | |
|---|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| S00000 | | FILE: AAA00005140 | MDL: - |
| | | MTL: - | |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS