ABB BALDOR RELIANCE

# Customer information packet

## VJPFPM2547T-5

60HP, 1770RPM, 3PH, 60HZ, 364JP, 4252M, OPSB, F

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/17/2026 4:12:33 PM

## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 364JP |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 60.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 575.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV |
| | UL |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 57.000 A @ 575.0 V |
| **Design Code** | B |
| **Drip Cover** | Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 93.6 % |
| **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** | 57.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | F |
| **Lifting Lugs** | Vertical Lifting Lugs |

## Part Detail

| | |
|---|---|
| **Revision** | H |
| **Type** | AC |
| **Mech. spec.** | 42E338 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 42WGX102 |
| **Layout** | 42LYE338 |
| **Eff. date** | 07-24-2023 |
| **CD Diagram** | CD0382 |
| **Poles** | 04 |
| **Leads** | 6#8 |
| **Proprietary** | False |
| **Created date** | 07-22-2016 |

| | |
|---|---|
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 6 @ 8 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 4252M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 32.50 IN |
| **Power Factor** | 84 |
| **Product Family** | Fire Pump Motor |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | Included |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.577 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** | Wye Start - Delta Run |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP3454L | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VJPFPM2547T-5 | | | **CUST P/N** | | | | **I.P.** | 23 | | | |
| **SPEC.** | 42E338X102H2 | | | **SER.NO.** | | | | **FRAME** | 364JP | | | |
| **HZ** | 60 | **HP** | 60 | **RPM** | 1770 | **HZ** | | **HP** | | **RPM** | | |
| **VOLTS** | 575 | | | **CODE** | F | **VOLTS** | | | | **CODE** | | |
| **AMPS** | 57 | | | **DES** | B | **AMPS** | | | | **DES** | | |
| **EFF** | 93.6 | **SER.F.** | 1.15 | **PF** | 84 | **EFF** | | **SER.F.** | | | **PF** | |
| **RATING** | 40C AMB-CONT | | | **DE BRG** | 6313 | | | **GREASE** | POLYREX EM | | | |
| **BLANK** | | | | **ODE BRG** | 6311 | | | **MTR. WT.** | 475 | | | |
| | | | | **CLASS** | F | **PH** | 3 | | | | | |
| | | | | **ENCL** | OPSB | **CC** | 010A | | | | | |
| **HTR-VOLTS** | | **HTR-AMPS** | | **HTR-WATTS** | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 58310
Typical performance - not guaranteed values

| **Winding:** 42WGX102-R001 | **Type:** 4252M | **Enclosure:** OPSB |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 60 | **Full Load Torque** | 178 LB-FT |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 57 | **Breakdown Torque** | 488 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 221 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 297 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | F | **Starting Current** | 323 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 21.1 A |
| **NEMA Nom. Eff.** | 93.6 | **Power Factor** | 84 | **Line-line Res. @ 25ºC** | 0.195 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 53°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 66°C |
| | | | | **Locked-rotor Power Factor** | 27.3 |
| | | | | **Rotor inertia** | 6.93 LB-FT2 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 50 | 71 | 80 | 84 | 85 | 84 | 85 |
| **Efficiency** | 91.5 | 93.9 | 94 | 93.7 | 92.7 | 91.6 | 93.1 |
| **Speed** | 1794 | 1787 | 1781 | 1772 | 1764 | 1753 | 1767 |
| **Line amperes** | 24.9 | 33.4 | 44.7 | 57.3 | 71.1 | 87 | 65.6 |

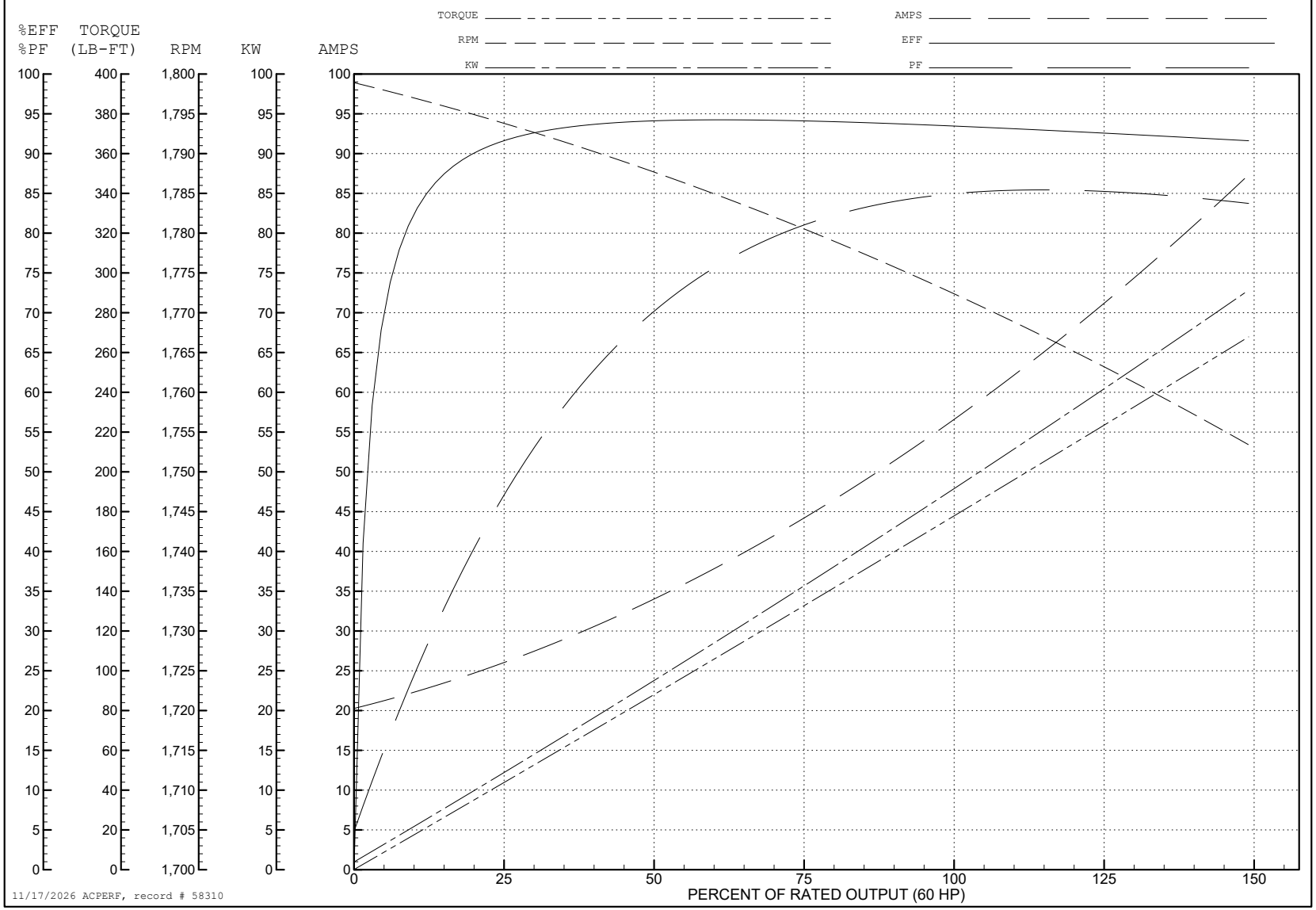
ABB Motors and Mechanical Inc.

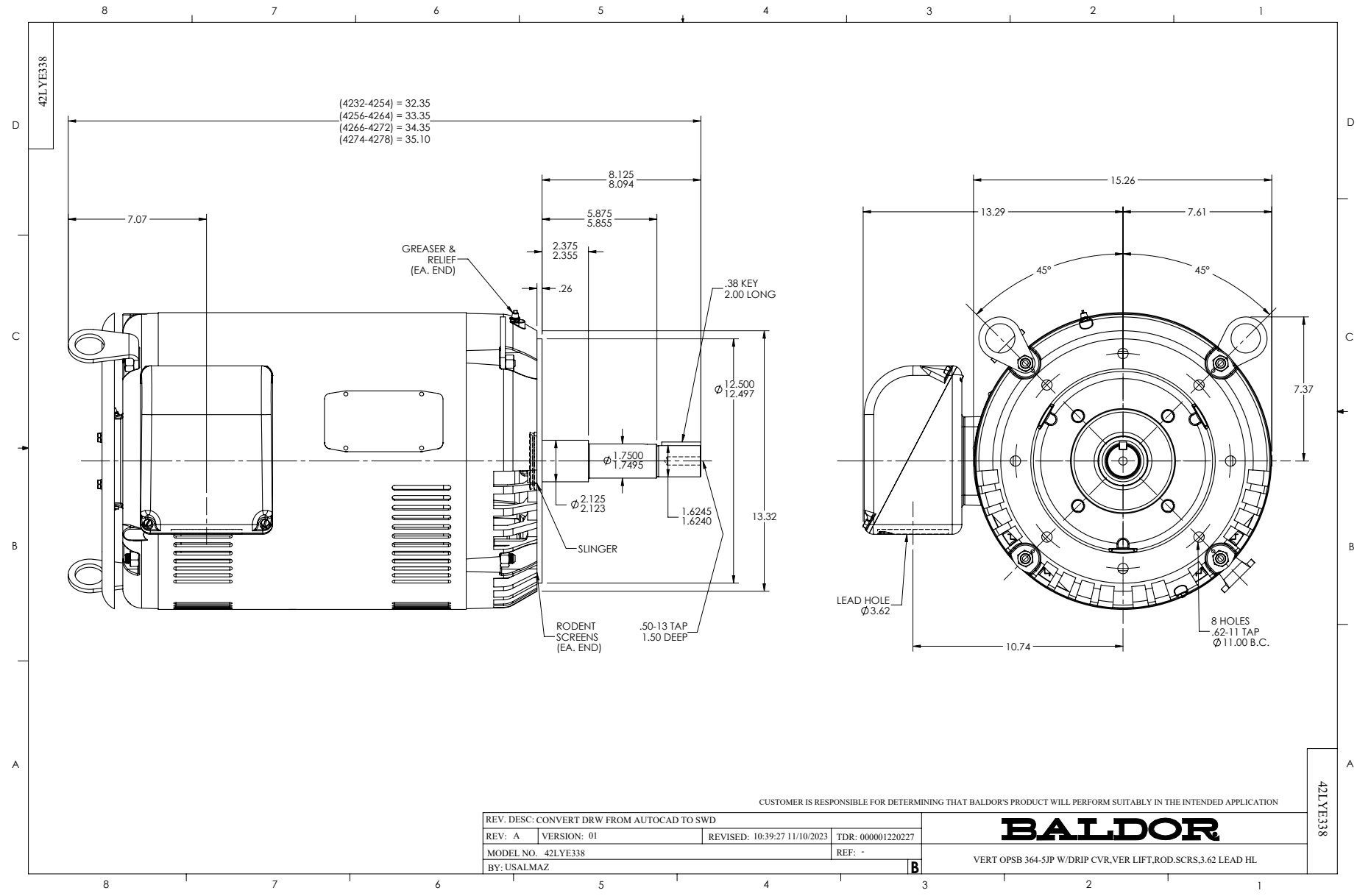
WINDING # 42WGX102

60 HP 3 PH 60 HZ 1770 RPM 575 V 4252M

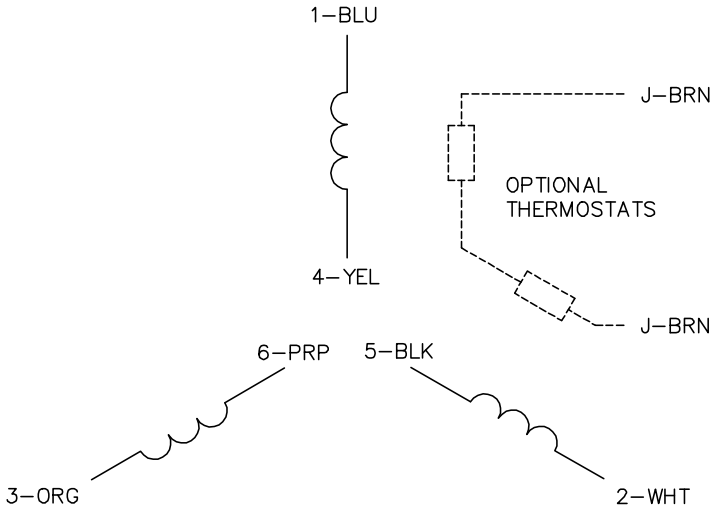
TORQUES(LB-FT): PO=488 PU=221 LR=297 LRA=323

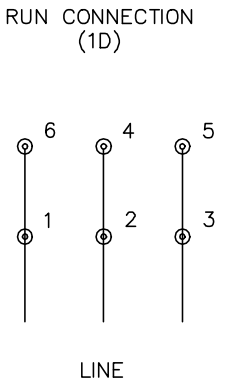
Typical performance - not guaranteed values.

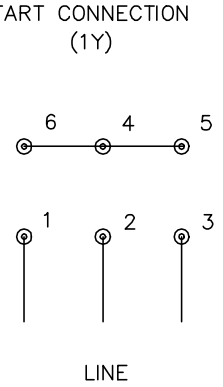



42LYE338
(4232-4254) = 32.35
(4256-4264) = 33.35
(4266-4272) = 34.35
(4274-4278) = 35.10
8.125
8.094
7.07
5.875
5.855
GREASER & RELIEF (EA. END)
2.375
2.355
.26
.38 KEY
2.00 LONG
12.500
12.497
7.500
7.495
2.125
2.123
1.6245
1.6240
13.32
SLINGER
RODENT SCREENS (EA. END)
.50-13 TAP
1.50 DEEP
15.26
13.29
7.61
45°
45°
7.37
LEAD HOLE
3.62
10.74
8 HOLES
.62-11 TAP
11.00 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT DRW FROM AUTOCAD TO SWD
REV: A
VERSION: 01
REVISED: 10:39:27 11/10/2023
TDR: 000001220227
MODEL NO. 42LYE338
REF: -
BY: USALMAZ
B
BALDOR
VERT OPSB 364-5JP W/DRIP CVR,VER LIFT,ROD.SCRS,3.62 LEAD HL
42LYE338

CD0382




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.
5. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

| | | |
|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: F | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\243 | REVISED: 09:05:32 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

SH 1 of 1