

BALDOR • RELIANCE

Customer information packet

FPM2547TS-2/4

60HP, 1770RPM, 3PH, 60HZ, 364TS, 4252M, ODP, F1

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Specifications

| | |
|--------------------------------|---|
| Enclosure | ODP |
| Frame | 364TS |
| 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 | 200.0 V @ 60 HZ 400.0 V @ 60 HZ |
| Agency Approvals | CSA EEV UL |
| Ambient Temperature | 40 °C |
| Auxiliary Box | NO AUXILLARY BOX |
| Auxiliary Box Lead Termination | None |
| Base Indicator | Rigid |
| Bearing Grease Type | Polyrex EM (-20F +300F) |
| Blower | None |
| Current @ Voltage | 166.000 A @ 200.0 V 83.000 A @ 400.0 V |
| Design Code | B |
| Drip Cover | No 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 | 83.0 a |
| Insulation Class | F |
| Inverter Code | Not Inverter |

Part detail

| | |
|--------------|------------|
| Revision | D |
| Type | AC |
| Mech. spec. | 42E360 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 42WGW981 |
| Layout | 42LYE360 |
| Eff. date | 07-24-2023 |
| CD Diagram | CD0104 |
| Poles | 04 |
| Leads | 12#8 |
| Proprietary | False |
| Created date | 03-20-2017 |

| | |
|--------------------------------------|-----------------------|
| KVA Code | F |
| Lifting Lugs | Standard Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Motor Lead Exit | Ko Box |
| Motor Lead Quantity/Wire Size | 12 @ 8 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 4252M |
| Mounting Arrangement | F1 |
| Number of Poles | 4 |
| Overall Length | 27.94 IN |
| Power Factor | 83 |
| Product Family | Fire Pump Motor |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | Standard |
| Pulley Shaft Indicator | Standard |
| Rodent Screen | None |
| Service Factor | 1.15 |
| Shaft Diameter | 1.875 IN |
| Shaft Extension Location | Pulley End |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Shaft Slinger Indicator | No 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. | FPM2547TS-2/4 | CUST P/N | | I.P. | 23 |
| SPEC. | 42E360W981H2 | SER.NO. | | FRAME | 364TS |
| HZ | 60 | HP | 60 | RPM | 1770 |
| VOLTS | 200/400 | CODE | F | VOLTS | |
| AMPS | 166/83 | DES | B | AMPS | |
| EFF | 93.6 | SER.F. | 1.15 | PF | 83 |
| RATING | 40C AMB-CONT | DE BRG | 6313 | GREASE | POLYREX EM |
| BLANK | | ODE BRG | 6311 | MTR. WT. | 480 |
| | | CLASS | F | PH | 3 |
| | | ENCL | ODP | CC | 010A |
| HTR-VOLTS | | HTR-AMPS | | HTR-WATTS | |

Parts list

| Part number | Description | Quantity |
|-------------|--|----------|
| SA335910 | SA 42E360W981H2 | 1.000 ea |
| RA324137 | RA 42E360W981H2 | 1.000 ea |
| HA6360 | LIFTING LUG FOR 42 FRAME MOTORS. | 2.000 ea |
| HA6017 | CAST ADAPTER, 40,42 KOBX | 1.000 ea |
| 19XW3118A12 | .31-18 X .75 HEX WASHER HEAD TAPTITE II | 2.000 ea |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 2.000 ea |
| 12CB1002A48 | CONDUIT BOX, W/3.62 DIA. LEAD HOLE | 1.000 ea |
| 19XW3118A16 | .31-18 HEX WASHER HEAD TAPTITE II 1.00 L | 4.000 ea |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 ea |
| WD1000B53 | TERMINAL BURNDY KPA34 | 1.000 ea |
| 10XN5013K10 | 1/2-13 X .625 HEX HD, GRADE 5 | 1.000 ea |
| HW1001A50 | LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I | 1.000 ea |
| 42EP3200A01 | FR ENDPLATE, MACH | 1.000 ea |
| HW5100A13 | W4627-047 WVY WSHR | 1.000 ea |
| 42EP1202A01 | STD PU ENDPLATE MODEL 42 313 BRG. | 1.000 ea |
| 10XN3816K44 | 3/8-16 X 2.75 HEX HD CAP SCREW, GRADE 5 | 4.000 ea |
| HW1001A38 | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| XY5013A12 | NUT,1/2-13,HEX,STEEL,ZINCPLATED | 8.000 ea |
| 18CB1501A01 | CONDUIT BOX LID, MODEL 318 OPEN | 1.000 ea |
| 10XN3118K16 | 5/16-18 X 1' GRADE #5, STL, ZINC PLATE | 4.000 ea |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 ea |
| HW2501H18 | KEY, 1/2 SQ X 2.000 | 1.000 ea |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 ea |
| HW4500A03 | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 ea |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.030 lb |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 ea |
| HW4500A03 | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 ea |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 ea |
| MG1025R44 | WILKOFAS, 784.109, CARMINE RED #3002 | 0.050 ga |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |

| | | |
|-------------|--|----------|
| 42AD2001A01 | BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS | 1.000 ea |
| 42AD2001A01 | BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS | 1.000 ea |
| HA3151A07 | THRUBOLT STUD 1/2-13 X 20.000 | 4.000 ea |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0104A01 | CONNECTION DIAGRAM | 1.000 ea |
| NP3454L | ALUM FIRE PUMP MOTOR(LEGACY/BALDOR ONLY) | 1.000 ea |
| 42PA1000 | PACKAGING GROUP PRINT PK1024A07 | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/22 | 1.000 ea |
| PE-0000013 | ZRTG PE ASSEMBLY | 1.000 ea |

AC Induction Motor Performance Data

Record # 54841

Typical performance - not guaranteed values

| Winding: 42WGW981-R001 | | Type: 4252M | | Enclosure: OPSB | | |
|-------------------------------|--------------|---------------------|--|------------------------------|-------------------------|-------|
| Nameplate Data | | | 400 V, 60 Hz: High Voltage Connection | | | |
| Rated Output (HP) | 60 | | Full Load Torque | 178 LB-FT | | |
| Volts | 200/400 | | Start Configuration | direct on line | | |
| Full Load Amps | 166/83 | | Breakdown Torque | 495 LB-FT | | |
| R.P.M. | 1770 | | Pull-up Torque | 224 LB-FT | | |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 302 LB-FT | |
| NEMA Design Code | B | | KVA Code | F | Starting Current | 471 A |
| Service Factor (S.F.) | 1.15 | | No-load Current | 31.1 A | | |
| NEMA Nom. Eff. | 93.6 | Power Factor | 83 | Line-line Res. @ 25°C | 0.0923 Ω | |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 53°C | | |
| S.F. Amps | | | Temp. Rise @ S.F. Load | 65°C | | |
| | | | Locked-rotor Power Factor | 27.3 | | |
| | | | Rotor inertia | 6.93 LB-FT ² | | |

Load Characteristics 400 V, 60 Hz, 60 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| Power Factor | 49 | 70 | 80 | 83 | 85 | 84 | 84 |
| Efficiency | 91.5 | 94 | 94 | 93.8 | 92.9 | 91.6 | 93.3 |
| Speed | 1794 | 1787 | 1781 | 1773 | 1765 | 1753 | 1768 |
| Line amperes | 36.6 | 48.7 | 64.8 | 82.8 | 102 | 125 | 94.3 |

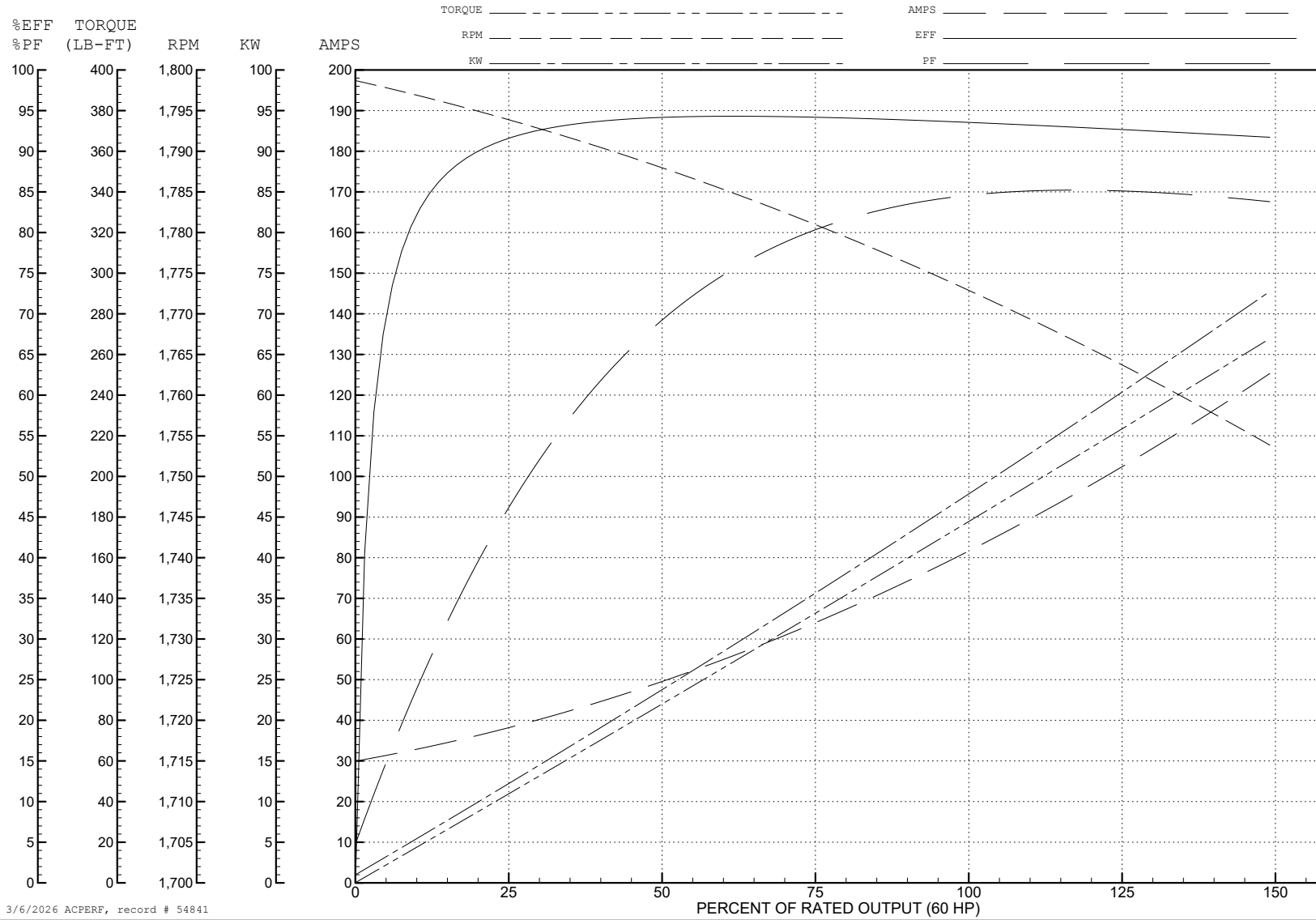
ABB Motors and Mechanical Inc.

WINDING # 42WGW981

Typical performance - not guaranteed values.

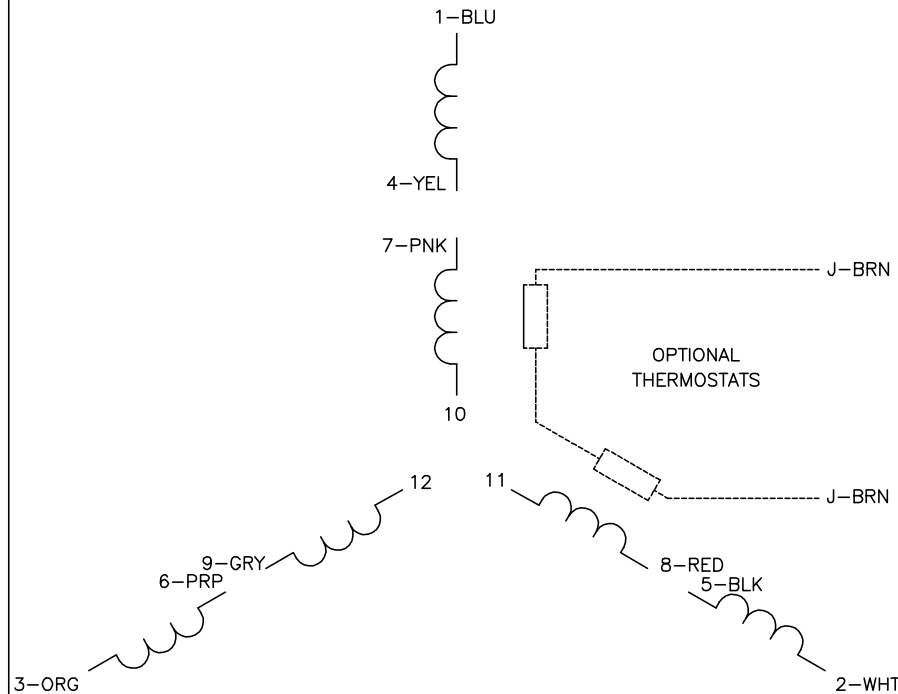
60 HP 3 PH 60 HZ 1770 RPM 400 V 4252M

TORQUES (LB-FT): PO=495 PU=224 LR=302 LRA=471



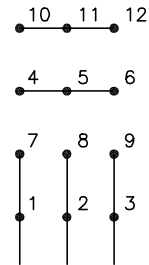
3/6/2026 ACPERF, record # 54841

CD0104



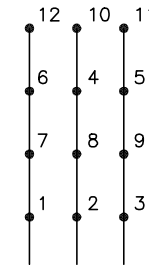
LOW VOLTAGE

START (2Y)



LINE

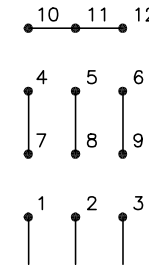
RUN (2D)



LINE

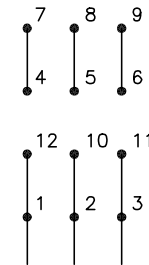
HIGH VOLTAGE

START (1Y)



LINE

RUN (1D)



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.

CD0104

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|-----------------------------------|------------------------------|-------------------|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: D | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00008\377 | REVISED: 09:02:55 02/19/2019 | BY: ENBRIRO |
| MTL: - | © □ | |

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3PH, DV, 12 LEADS, Y START/D RUN

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