

**BALDOR • RELIANCE**

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# Customer information packet

## FPM2549T-2/4

75HP, 3535RPM, 3PH, 60HZ, 364TS, 4250M, OPSB, F  
A

## Specifications

Enclosure	OPSB
Frame	364TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	192.000 A @ 200.0 V 96.000 A @ 400.0 V
Design Code	B
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	96.0 a
Insulation Class	F
Inverter Code	Not Inverter

## Part detail

Revision	C
Type	AC
Mech. spec.	42E360
Base	
Status	PRD/A
Elec. spec.	42WGW982
Layout	42LYE360
Eff. date	07-24-2023
CD Diagram	CD0104
Poles	02
Leads	12#6
Proprietary	False
Created date	03-20-2017

<b>KVA Code</b>	F
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	12 @ 6 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	4250M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	27.94 IN
<b>Power Factor</b>	90
<b>Product Family</b>	Fire Pump Motor
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.875 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3535 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Wye Start - Delta Run
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

**NP3454L**

<b>CAT.NO.</b>	FPM2549T-2/4	<b>CUST P/N</b>		<b>I.P.</b>	23
<b>SPEC.</b>	42E360W982H2	<b>SER.NO.</b>		<b>FRAME</b>	364TS
<b>HZ</b>	60	<b>HP</b>	75	<b>RPM</b>	3535
<b>VOLTS</b>	200/400	<b>CODE</b>	F	<b>VOLTS</b>	
<b>AMPS</b>	192/96	<b>DES</b>	B	<b>AMPS</b>	
<b>EFF</b>	93	<b>SER.F.</b>	1.15	<b>PF</b>	90
<b>RATING</b>	40C AMB-CONT	<b>DE BRG</b>	6313	<b>GREASE</b>	POLYREX EM
<b>BLANK</b>		<b>ODE BRG</b>	6311	<b>MTR. WT.</b>	485
		<b>CLASS</b>	F	<b>PH</b>	3
		<b>ENCL</b>	OPSB	<b>CC</b>	010A
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>		<b>HTR-WATTS</b>	

## Parts list

Part number	Description	Quantity
SA336189	SA 42E360W982H2	1.000 ea
RA324422	RA 42E360W982H2	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

42AD2001C01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
42AD2001C01	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 # 54842

Typical performance - not guaranteed values

<b>Winding: 42WGW982-R001</b>		<b>Type: 4250M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>400 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	75	<b>Full Load Torque</b>	112 LB-FT		
<b>Volts</b>	200/400	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	192/96	<b>Breakdown Torque</b>	381 LB-FT		
<b>R.P.M.</b>	3535	<b>Pull-up Torque</b>	111 LB-FT		
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	148 LB-FT
<b>NEMA Design Code</b>	B	<b>KVA Code</b>	F	<b>Starting Current</b>	585 A
<b>Service Factor (S.F.)</b>			1.15	<b>No-load Current</b>	22.7 A
<b>NEMA Nom. Eff.</b>	93	<b>Power Factor</b>	90	<b>Line-line Res. @ 25°C</b>	0.0688 Ω
<b>Rating - Duty</b>			40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	41°C
<b>S.F. Amps</b>				<b>Temp. Rise @ S.F. Load</b>	51°C
				<b>Locked-rotor Power Factor</b>	21.1
				<b>Rotor inertia</b>	3.91 LB-FT <sup>2</sup>

**Load Characteristics 400 V, 60 Hz, 75 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	67	84	89	90	90	89	90
<b>Efficiency</b>	92.4	94.6	94.4	94	93	91.3	93.4
<b>Speed</b>	3585	3572	3556	3539	3518	3496	3526
<b>Line amperes</b>	32.5	51	72.4	96.4	122	149	112

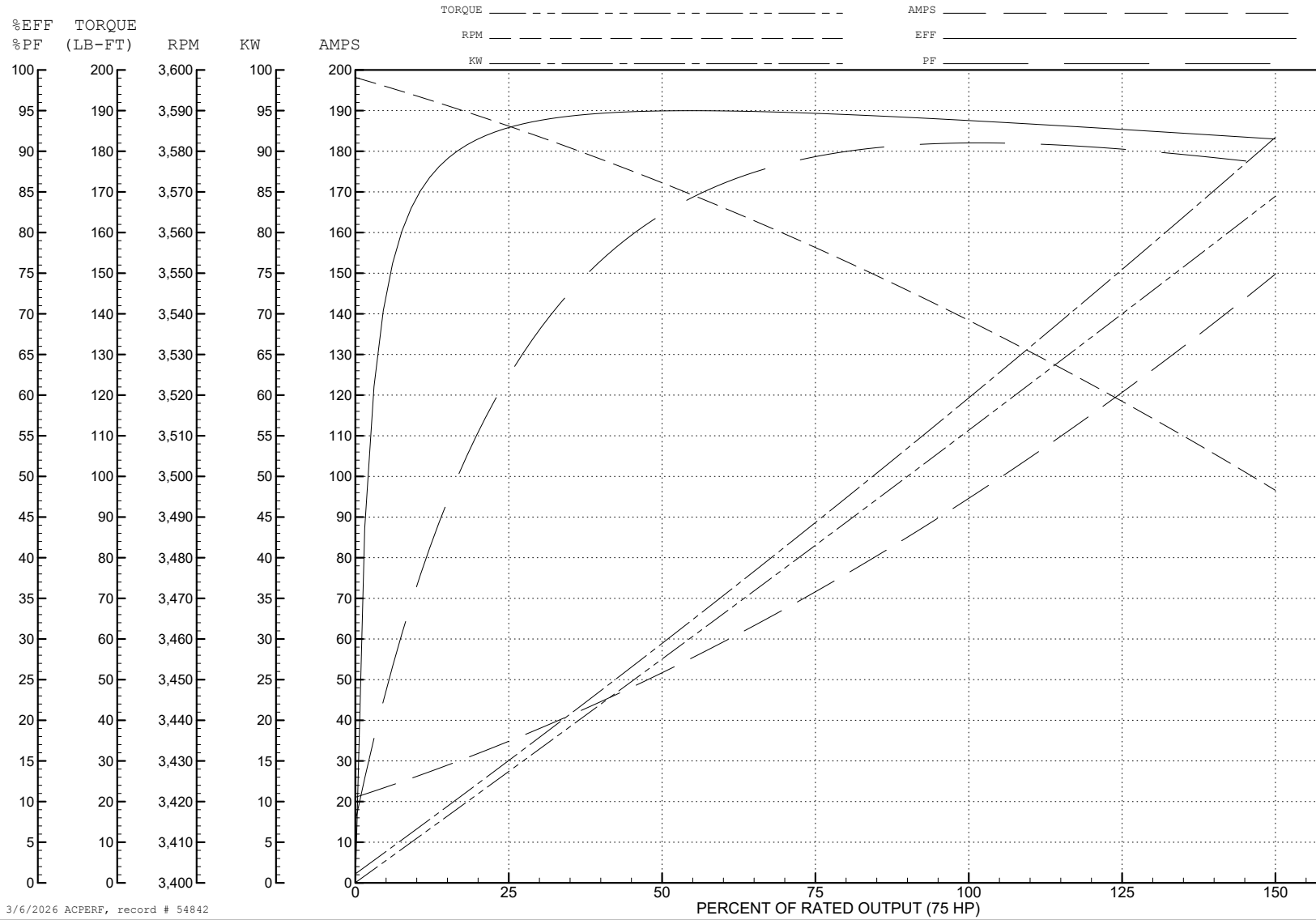
ABB Motors and Mechanical Inc.

WINDING # 42WGW982

75 HP 3 PH 60 HZ 3535 RPM 400 V 4250M

Typical performance - not guaranteed values.

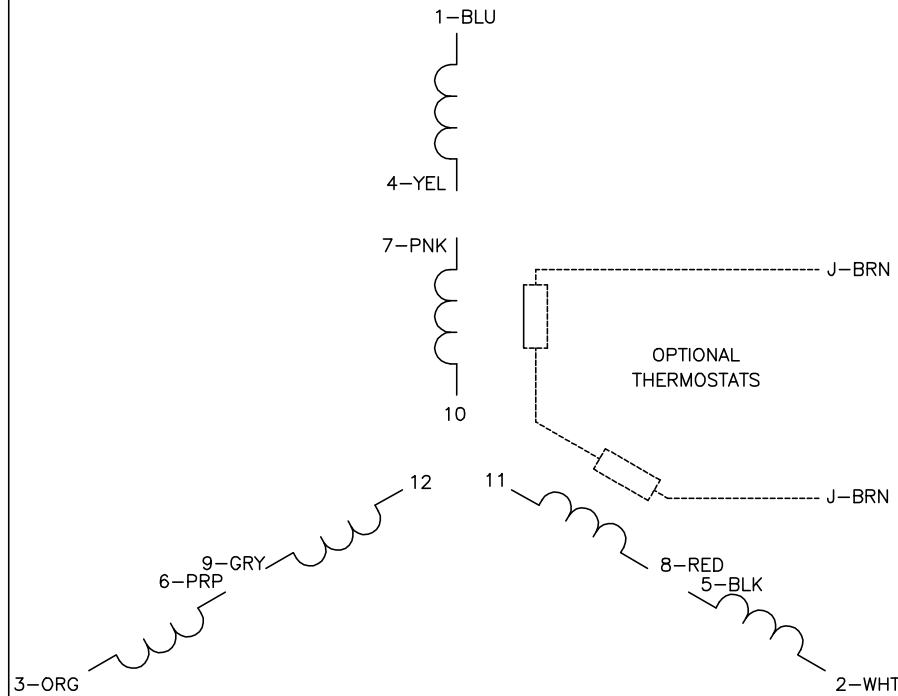
TORQUES (LB-FT): PO=381 PU=111 LR=148 LRA=585



3/6/2026 ACPERF, record # 54842

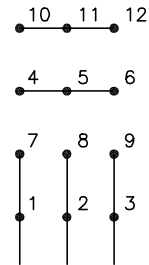


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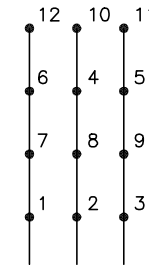
**LOW VOLTAGE**

START (2Y)



LINE

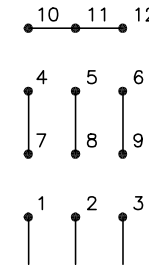
RUN (2D)



LINE

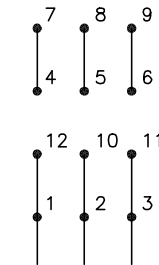
**HIGH VOLTAGE**

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.

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

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