

BALDOR • RELIANCE

Customer information packet

FPM2542T-2/4

50HP, 3520RPM, 3PH, 60HZ, 324TS, 4044M, OPSB, F
A

Specifications

Enclosure	OPSB
Frame	324TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	50.000 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	134.000 A @ 200.0 V 67.000 A @ 400.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	67.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part detail

Revision	E
Type	AC
Mech. spec.	40H07
Base	
Status	PRD/A
Elec. spec.	40WGX328
Layout	40LYH007
Eff. date	07-24-2023
CD Diagram	CD0104
Poles	02
Leads	12#8
Proprietary	False
Created date	01-11-2016

KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	4044M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.69 IN
Power Factor	87
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	3520 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.	FPM2542T-2/4	CUST P/N		I.P.	23
SPEC.	40H007X328H2	SER.NO.		FRAME	324TS
HZ	60	HP	50	RPM	3520
VOLTS	200/400	CODE	F	VOLTS	
AMPS	134/67	DES	B	AMPS	
EFF	92.4	SER.F.	1.15	PF	87
RATING	40C AMB-CONT	DE BRG	6312	GREASE	POLYREX EM
BLANK		ODE BRG	6309	MTR. WT.	340
		CLASS	F	PH	3
		ENCL	OPSB	CC	010A
HTR-VOLTS		HTR-AMPS		HTR-WATTS	

Parts list

Part number	Description	Quantity
SA313312	SA 40H007X328H2	1.000 ea
RA300768	RA 40H007X328H2	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	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
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
40EP3200A02	STD FREP OPEN 309 BRG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
40EP3201A01	PU ENDPLATE, MACH - OPEN - FOR 312 BRG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	8.000 ea
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW2501H18	KEY, 1/2 SQ X 2.000	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HA3154A04	THRUBOLT STUD 3/8-16 X 18.750	4.000 ea
MG1025R44	WILKOFAS, 784.109, CARMINE RED #3002	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
40AD2002C01	LEXAN BAFFLE 40 FR OPEN	1.000 ea

LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
40AD2002C01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
LC0104A01	CONNECTION DIAGRAM	1.000 ea
NP3454L	ALUM FIRE PUMP MOTOR(LEGACY/BALDOR ONLY)	1.000 ea
40PA1000	PACKAGING GROUP	1.000 ea

AC Induction Motor Performance Data

Record # 54839

Typical performance - not guaranteed values

Winding: 40WGX328-R001		Type: 4044M		Enclosure: OPSB	
Nameplate Data			400 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	50		Full Load Torque	74.2 LB-FT	
Volts	200/400		Start Configuration	direct on line	
Full Load Amps	134/67		Breakdown Torque	235 LB-FT	
R.P.M.	3520		Pull-up Torque	86.4 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	126 LB-FT	
NEMA Design Code	B KVA Code	F	Starting Current	403 A	
Service Factor (S.F.)	1.15		No-load Current	18.3 A	
NEMA Nom. Eff.	92.4 Power Factor	87	Line-line Res. @ 25°C	0.127 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	44°C	
S.F. Amps			Temp. Rise @ S.F. Load	53°C	
			Locked-rotor Power Factor	24.1	
			Rotor inertia	1.89 LB-FT ²	

Load Characteristics 400 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	80	86	87	88	89	88
Efficiency	89.4	92.6	93.2	92.4	91.8	90	92
Speed	3583	3565	3547	3527	3505	3478	3514
Line amperes	24.9	36.7	50.8	66.5	83.4	101	76.6

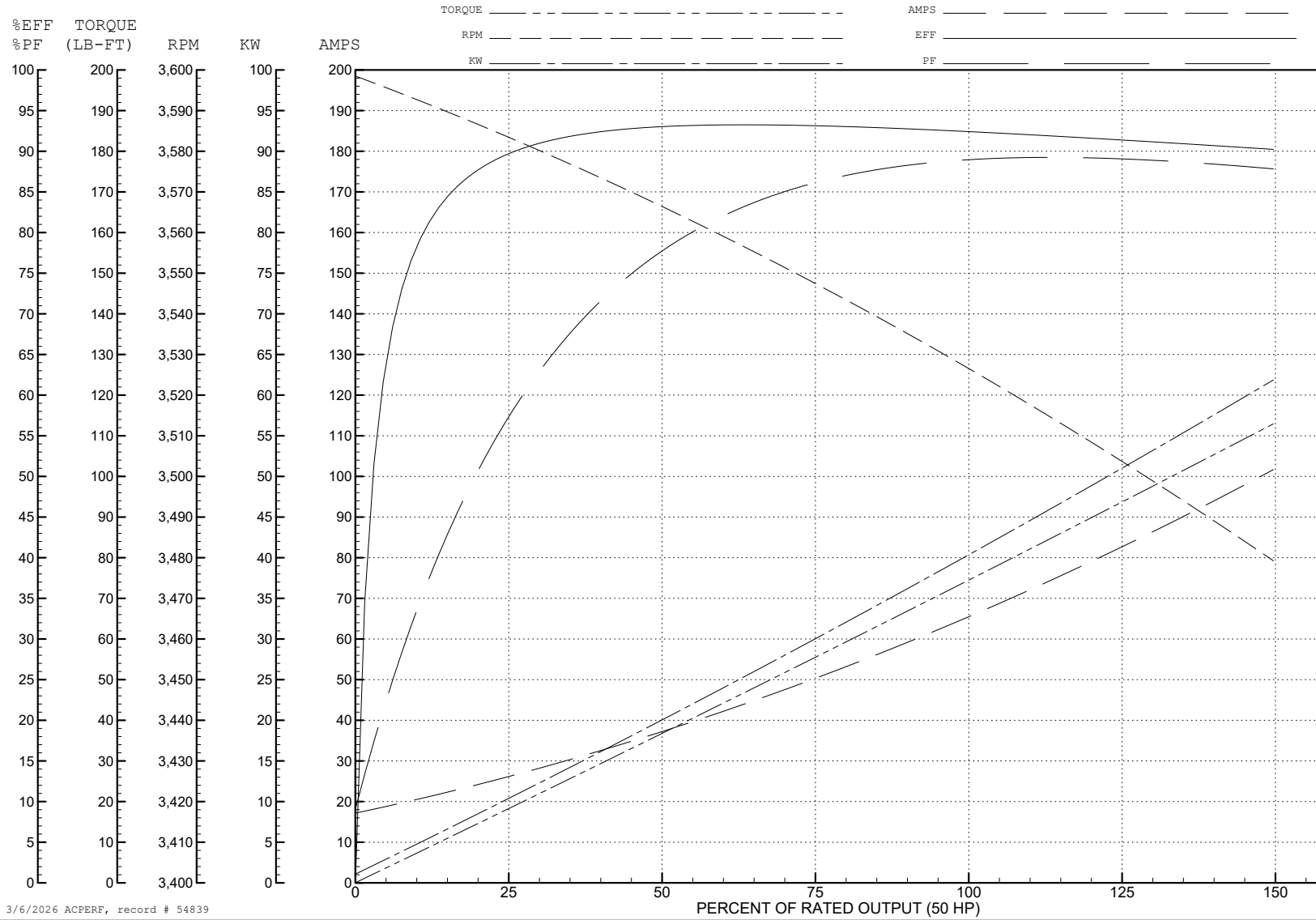
ABB Motors and Mechanical Inc.

WINDING # 40WGX328

Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 3520 RPM 400 V 4044M

TORQUES (LB-FT): PO=235 PU=86.4 LR=126 LRA=403



3/6/2026 ACPERF, record # 54839

