ABB BALDOR RELIANCE

Customer information packet

FPM2549T-5

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

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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	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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	67.000 A @ 575.0 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	67.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	G
Type	AC
Mech. spec.	42F98
Base	
Status	PRD/A
Elec. spec.	42WGX103
Layout	42LYF098
Eff. date	07-24-2023
CD Diagram	CD0382
Poles	02
Leads	6#6
Proprietary	False
Created date	07-20-2016

Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4250M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.81 IN
Power Factor	90
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	3535 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.	FPM2549T-5			**CUST P/N**				**I.P.**	23			
SPEC.	42F098X103H2			**SER.NO.**				**FRAME**	364TS			
HZ	60	**HP**	75	**RPM**	3535	**HZ**		**HP**		**RPM**		
VOLTS	575			**CODE**	F	**VOLTS**				**CODE**		
AMPS	67			**DES**	B	**AMPS**				**DES**		
EFF	93	**SER.F.**	1.15	**PF**	90	**EFF**		**SER.F.**			**PF**	
RATING	40C AMB-CONT			**DE BRG**	6313			**GREASE**	POLYREX EM			
BLANK				**ODE BRG**	6311			**MTR. WT.**	487			
				CLASS	F	**PH**	3					
				ENCL	OPSB	**CC**	010A					
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**								

AC Induction Motor Performance Data
Record # 58312
Typical performance - not guaranteed values

Winding: 42WGX103-R001	**Type:** 4250M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			75	**Full Load Torque**	112 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			67	**Breakdown Torque**	378 LB-FT
R.P.M.			3535	**Pull-up Torque**	110 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	147 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	404 A
Service Factor (S.F.)			1.15	**No-load Current**	15.5 A
NEMA Nom. Eff.	93	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.145 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Locked-rotor Power Factor	21.2
				Rotor inertia	3.91 LB-FT2

Load Characteristics 575 V, 60 Hz, 75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	68	84	89	90	90	89	90
Efficiency	92.5	94.6	94.5	94	93	91.2	93.4
Speed	3585	3572	3556	3538	3518	3495	3526
Line amperes	22.4	35.3	50.3	67	84.7	104	77.6

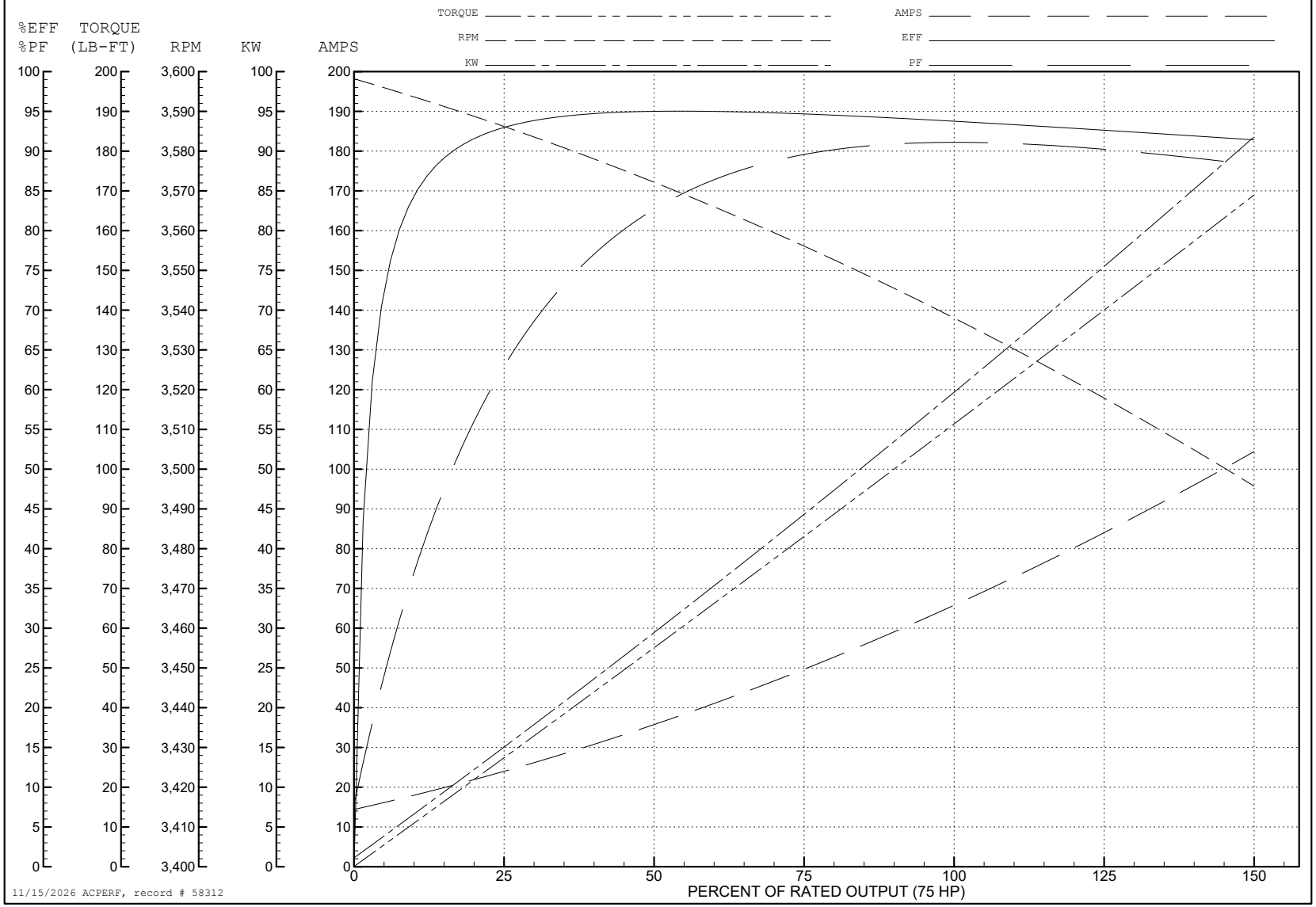
ABB Motors and Mechanical Inc.

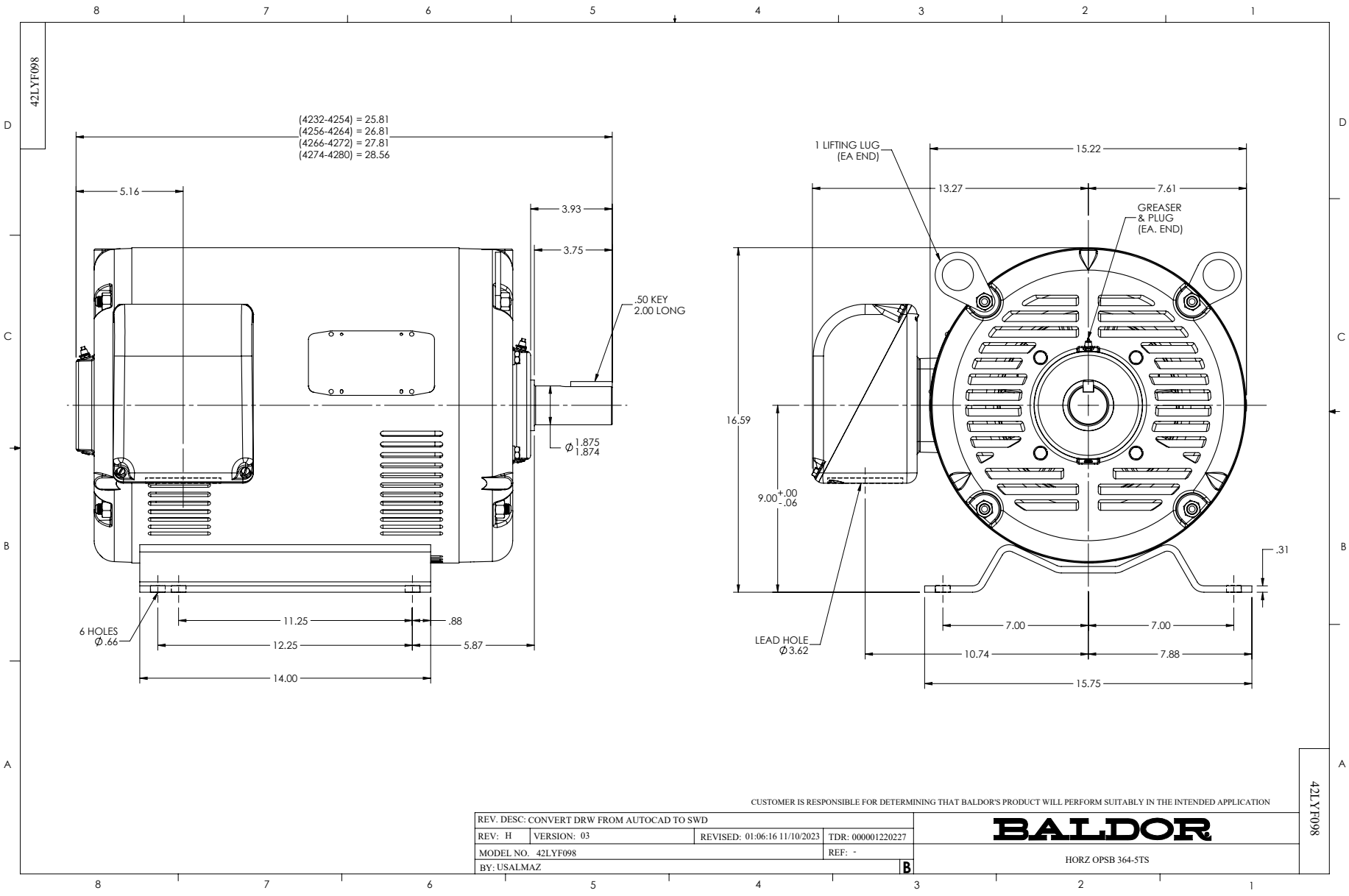
WINDING # 42WGX103

75 HP 3 PH 60 HZ 3535 RPM 575 V 4250M

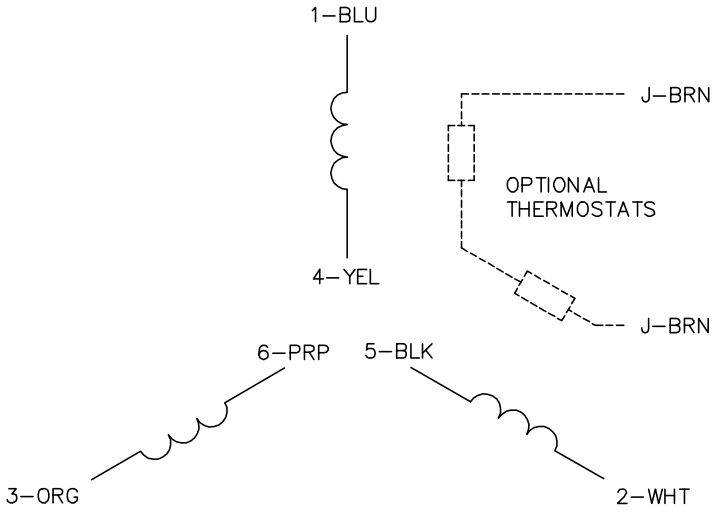
Typical performance - not guaranteed values.

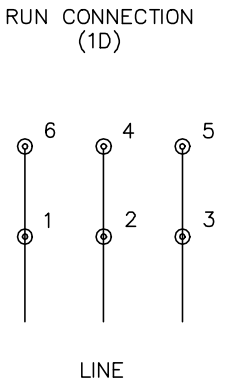
TORQUES(LB-FT): PO=378 PU=110 LR=147 LRA=404

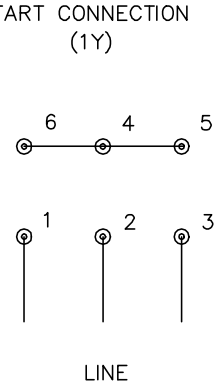



42LYF098
(4232-4254) = 25.81
(4256-4264) = 26.81
(4266-4272) = 27.81
(4274-4280) = 28.56
5.16
3.93
3.75
.50 KEY
2.00 LONG
Ø 1.875
1.874
6 HOLES
Ø .66
11.25
.88
12.25
5.87
14.00
1 LIFTING LUG
(EA END)
15.22
13.27
7.61
GREASER
& PLUG
(EA. END)
16.59
9.00 +.00 -.06
.31
LEAD HOLE
Ø 3.62
7.00
7.00
10.74
7.88
15.75
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: H
VERSION: 03
REVISED: 01:06:16 11/10/2023
TDR: 000001220227
MODEL NO. 42LYF098
REF: -
BY: USALMAZ
B
BALDOR
HORZ OPSB 364-5TS
42LYF098

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