ABB BALDOR RELIANCE

Customer information packet

FPM2538T-5

40HP, 3500RPM, 3PH, 60HZ, 286TS, 3954M, ODP, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	ODP
Frame	286TS
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL
	CSA EEV
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	36.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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	36.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	K
Type	AC
Mech. spec.	39R082
Base	
Status	PRD/A
Elec. spec.	39WGX991
Layout	39LYR082
Eff. date	11-14-2023
CD Diagram	CD0382
Poles	02
Leads	6#10
Proprietary	False
Created date	07-20-2016

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3954M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.56 IN
Power Factor	91
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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.	FPM2538T-5			**CUST P/N**				**I.P.**	23			
SPEC.	39R082X991H2			**SER.NO.**				**FRAME**	286TS			
HZ	60	**HP**	40	**RPM**	3500	**HZ**		**HP**		**RPM**		
VOLTS	575			**CODE**	G	**VOLTS**				**CODE**		
AMPS	36			**DES**	B	**AMPS**				**DES**		
EFF	91.7	**SER.F.**	1.15	**PF**	91	**EFF**		**SER.F.**			**PF**	
RATING	40C AMB-CONT			**DE BRG**	6311			**GREASE**	POLYREX EM			
BLANK				**ODE BRG**	6208			**MTR. WT.**	287			
				CLASS	F	**PH**	3					
				ENCL	ODP	**CC**	010A					
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**								

AC Induction Motor Performance Data
Record # 58306
Typical performance - not guaranteed values

Winding: 39WGX991-R001	**Type:** 3954M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			40	**Full Load Torque**	60.6 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			36	**Breakdown Torque**	190 LB-FT
R.P.M.			3500	**Pull-up Torque**	70.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	89.9 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	227 A
Service Factor (S.F.)			1.15	**No-load Current**	8.34 A
NEMA Nom. Eff.	91.7	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.371 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	81°C
				Locked-rotor Power Factor	27.5
				Rotor inertia	1.38 LB-FT2

Load Characteristics 575 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	69	85	90	91	91	90	91
Efficiency	93	94	93.3	92	90.1	88.3	90.9
Speed	3580	3557	3532	3503	3470	3435	3483
Line amperes	12.2	19.1	27.2	36.2	46.2	56.7	42.2

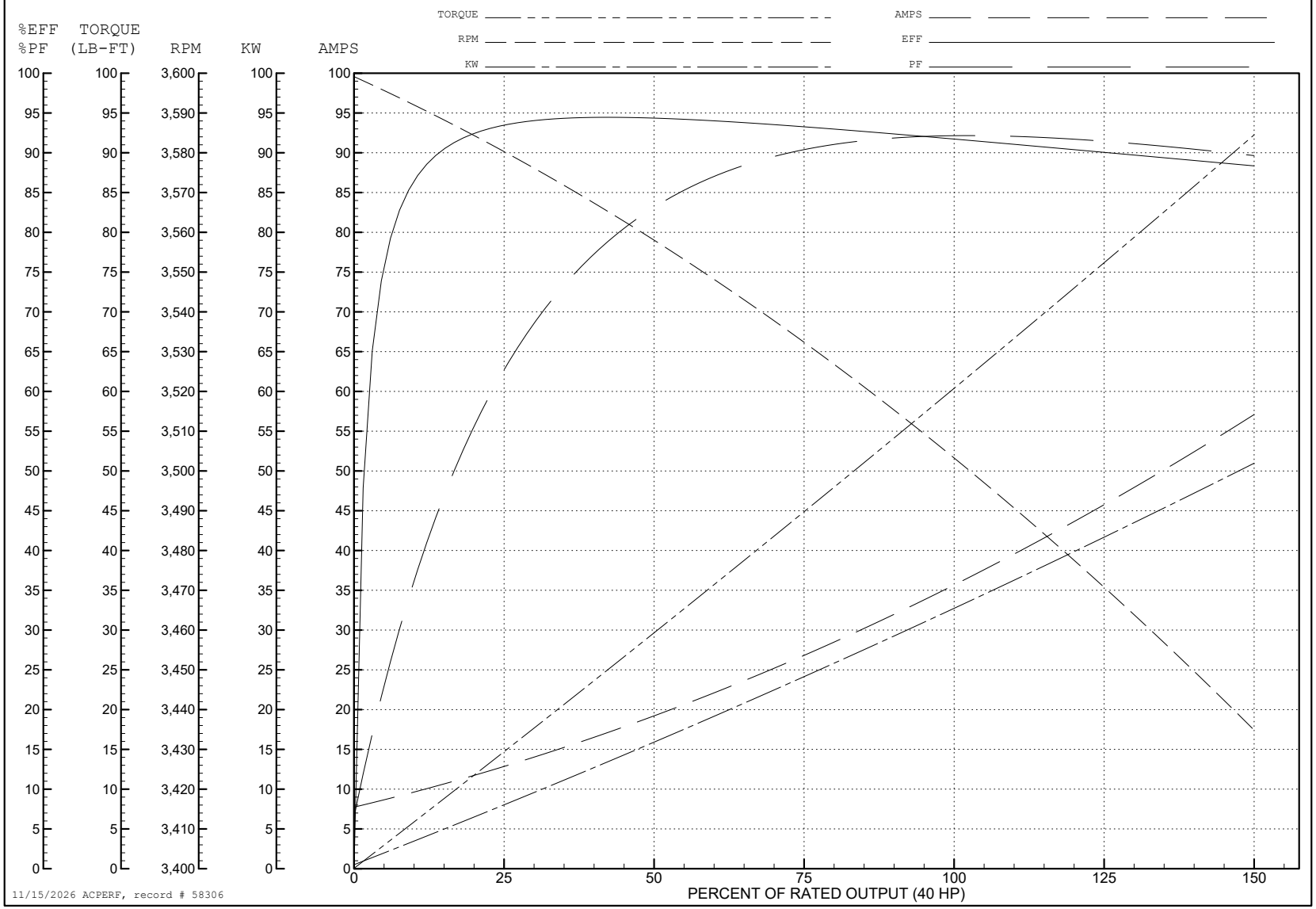
ABB Motors and Mechanical Inc.

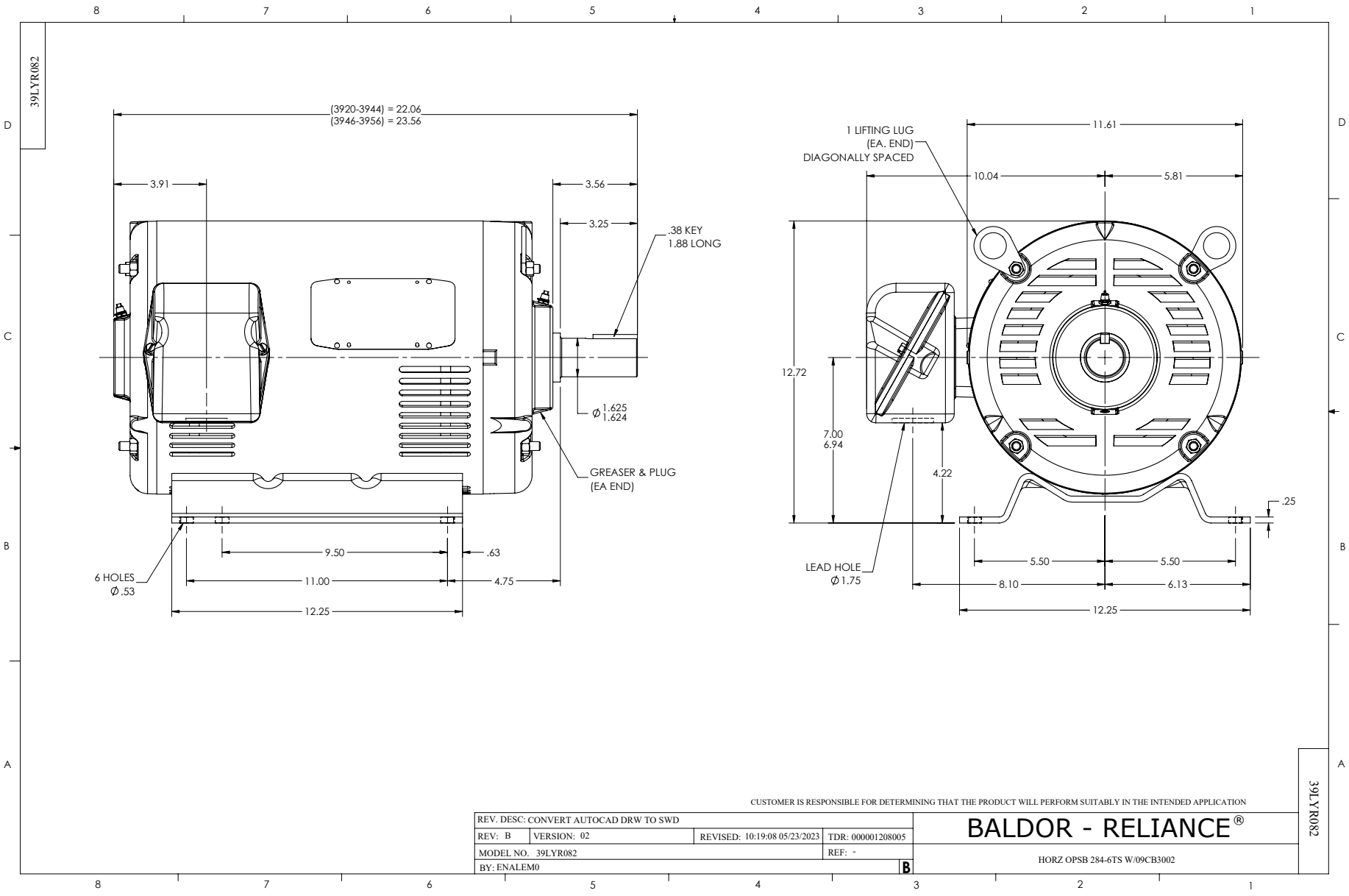
WINDING # 39WGX991

40 HP 3 PH 60 HZ 3500 RPM 575 V 3954M

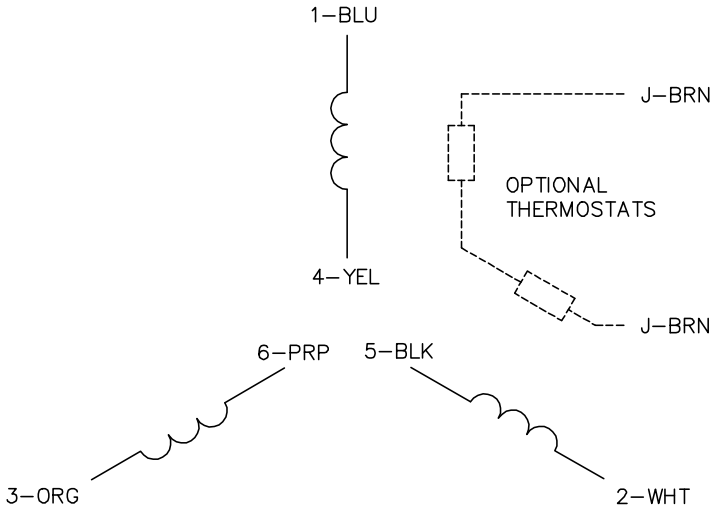
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=190 PU=70.8 LR=89.9 LRA=227

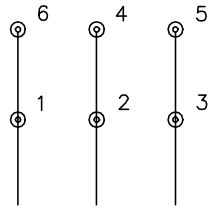



39LYR082
(3920-3944) = 22.06
(3946-3956) = 23.56
3.91
3.56
3.25
.38 KEY
1.88 LONG
Ø 1.625
1.624
GREASER & PLUG
(EA END)
6 HOLES
Ø .53
9.50
.63
11.00
4.75
12.25
1 LIFTING LUG
(EA. END)
DIAGONALLY SPACED
11.61
10.04
5.81
12.72
7.00
6.94
4.22
.25
LEAD HOLE
Ø 1.75
5.50
5.50
8.10
6.13
12.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: B
VERSION: 02
REVISED: 10:19:08 05/23/2023
TDR: 000001208005
MODEL NO. 39LYR082
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ OPSB 284-6TS W/09CB3002
39LYR082

CD0382

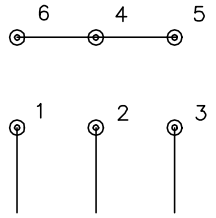


RUN CONNECTION
(1D)



LINE

START CONNECTION
(1Y)



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.
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: –		

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

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