ABB BALDOR RELIANCE

Customer information packet

FPM2534T-5

30HP, 3505RPM, 3PH, 60HZ, 284TS, 3936M, ODP, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	ODP
Frame	284TS
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	30.000 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	28.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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	28.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	L
Type	AC
Mech. spec.	39R082
Base	
Status	PRD/A
Elec. spec.	39WGX990
Layout	39LYR082
Eff. date	11-14-2023
CD Diagram	CD0382
Poles	02
Leads	6#12
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 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3936M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.06 IN
Power Factor	89
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	3505 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.	FPM2534T-5			**CUST P/N**				**I.P.**	23			
SPEC.	39R082X990H2			**SER.NO.**				**FRAME**	284TS			
HZ	60	**HP**	30	**RPM**	3505	**HZ**		**HP**		**RPM**		
VOLTS	575			**CODE**	G	**VOLTS**				**CODE**		
AMPS	28			**DES**	B	**AMPS**				**DES**		
EFF	91	**SER.F.**	1.15	**PF**	89	**EFF**		**SER.F.**			**PF**	
RATING	40C AMB-CONT			**DE BRG**	6311			**GREASE**	POLYREX EM			
BLANK				**ODE BRG**	6208			**MTR. WT.**	240			
				CLASS	F	**PH**	3					
				ENCL	ODP	**CC**	010A					
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**								

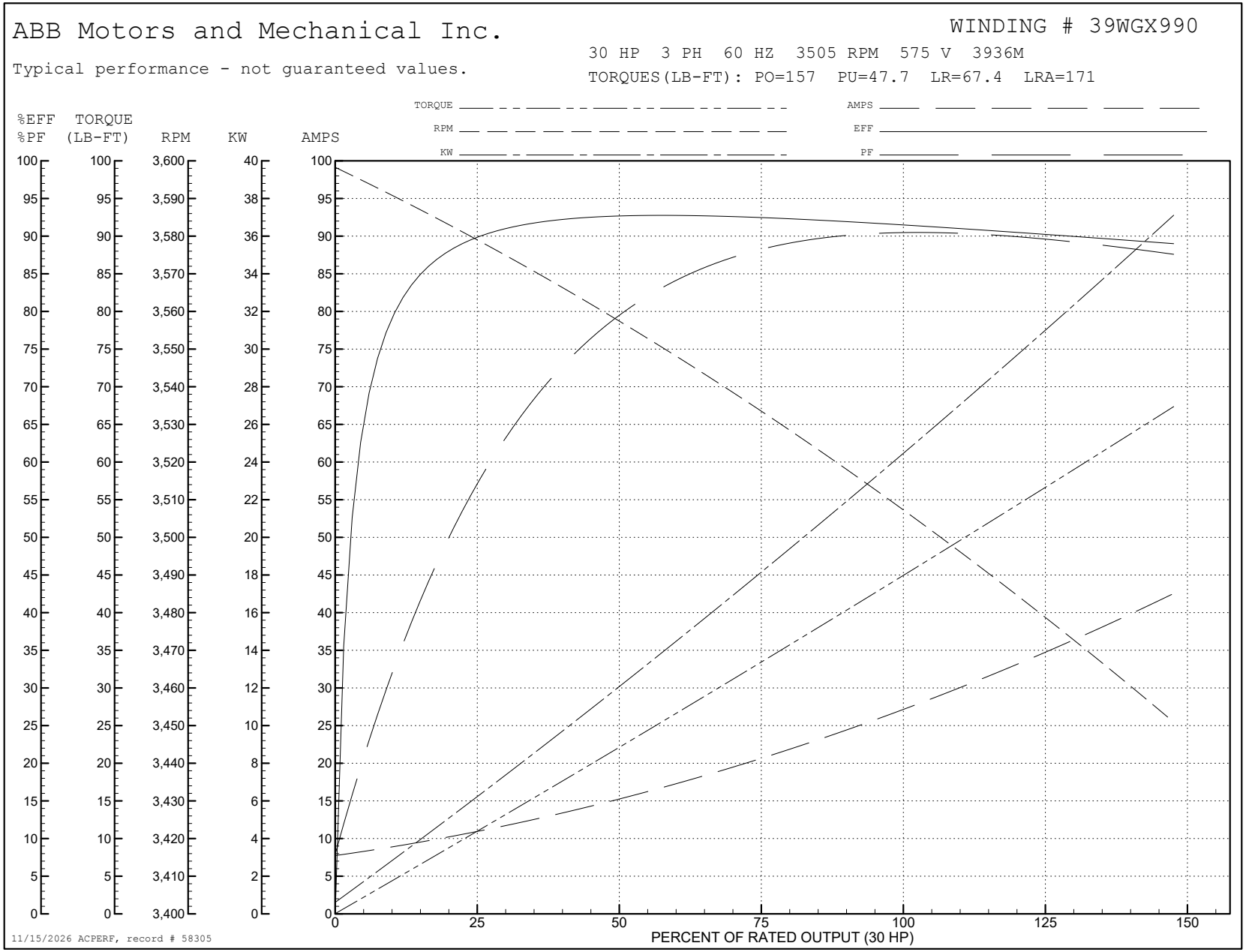
AC Induction Motor Performance Data
Record # 58305
Typical performance - not guaranteed values

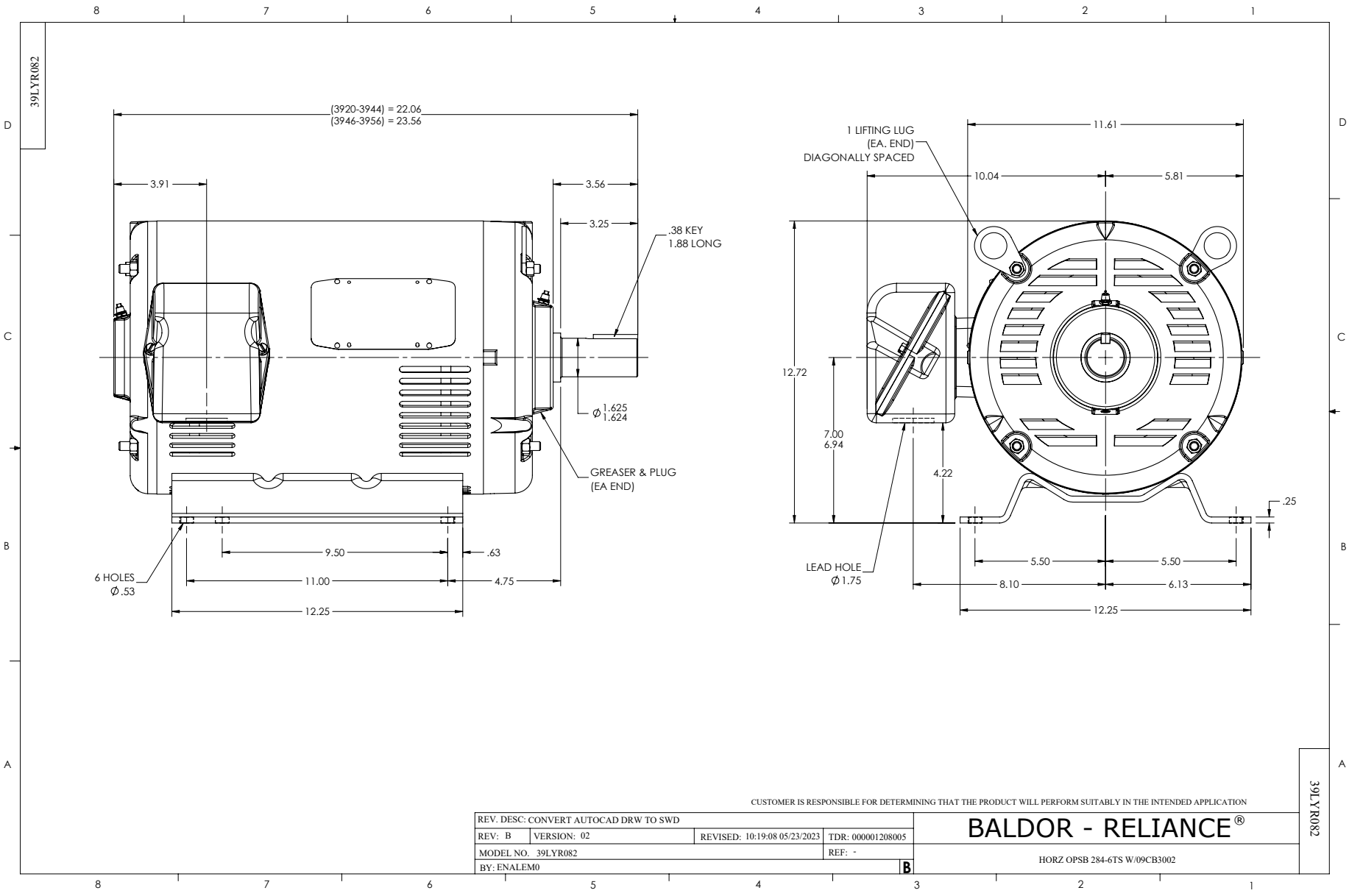
Winding: 39WGX990-R001	**Type:** 3936M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			30	**Full Load Torque**	44.9 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			28	**Breakdown Torque**	157 LB-FT
R.P.M.			3505	**Pull-up Torque**	47.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	67.4 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	171 A
Service Factor (S.F.)			1.15	**No-load Current**	8.18 A
NEMA Nom. Eff.	91	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.548 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps				**Temp. Rise @ S.F. Load**	44°C
				Locked-rotor Power Factor	29.2
				Rotor inertia	0.92 LB-FT2

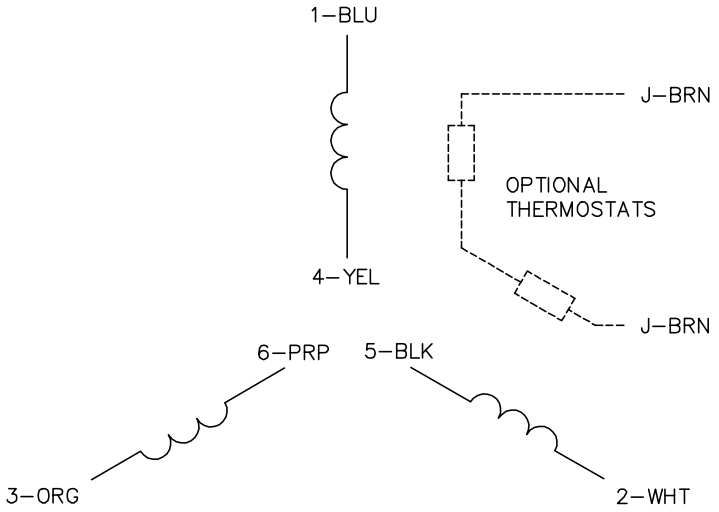
Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	61	82	87	89	89	88	89
Efficiency	89.4	92.3	92.6	91.6	90.5	88.9	91
Speed	3578	3556	3533	3508	3481	3450	3492
Line amperes	10.4	15.1	21	27.5	34.5	42.3	31.7

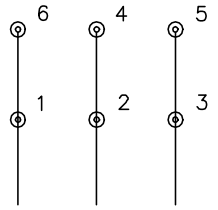

ABB Motors and Mechanical Inc.
WINDING # 39WGX990
30 HP 3 PH 60 HZ 3505 RPM 575 V 3936M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=157 PU=47.7 LR=67.4 LRA=171
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
11/15/2026 ACPERF, record # 58305


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

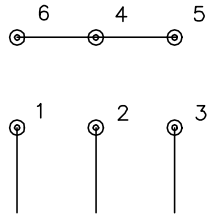
CD0382



RUN CONNECTION
(1D)



START CONNECTION
(1Y)



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