

ABB BALDOR RELIANCE III

Customer information packet

FPM2534T-5

30HP, 3505RPM, 3PH, 60HZ, 284TS, 3936M, ODP, F1

Class - None

Division - Not Applicable

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. @ 25°C		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

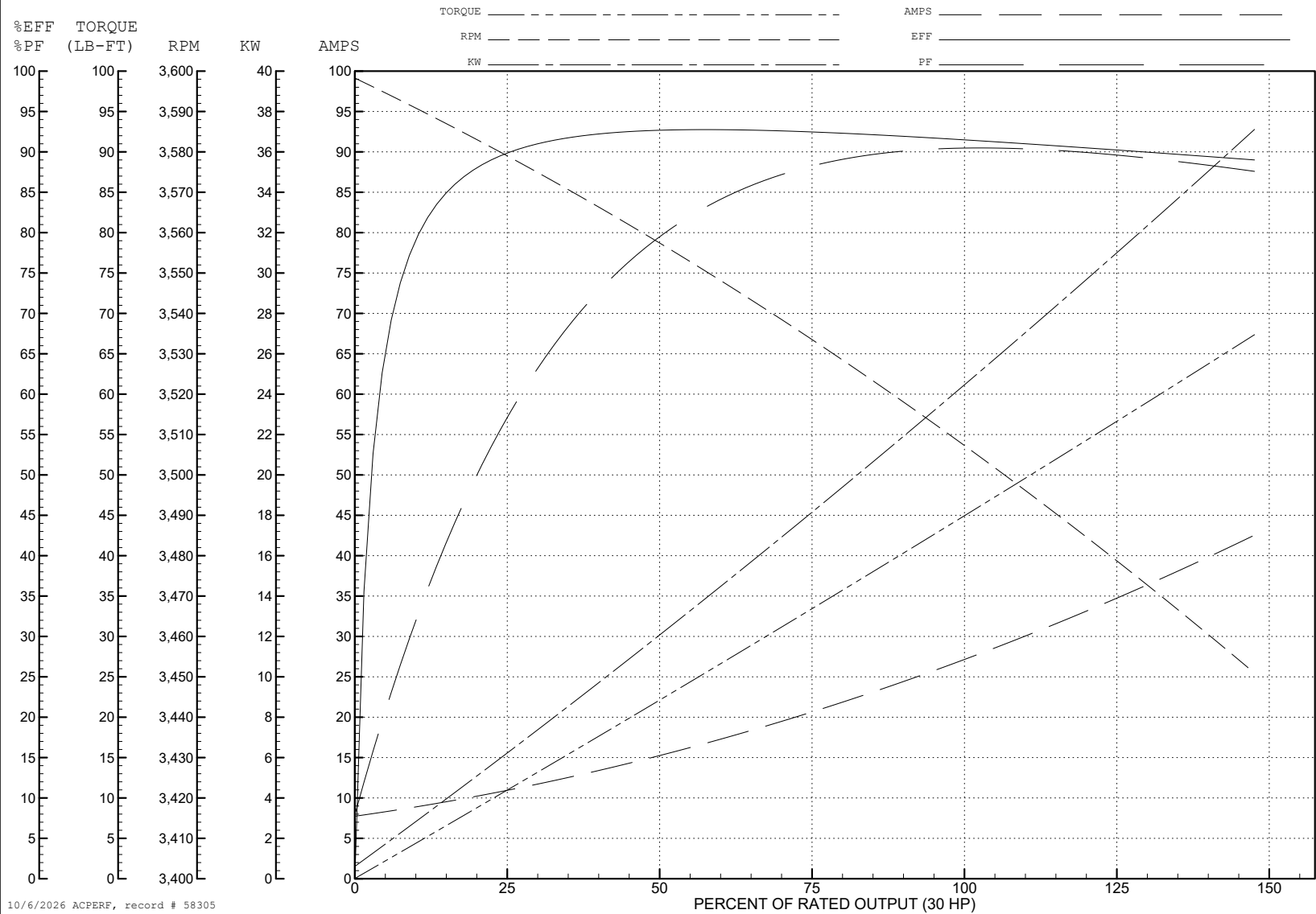
ABB Motors and Mechanical Inc.

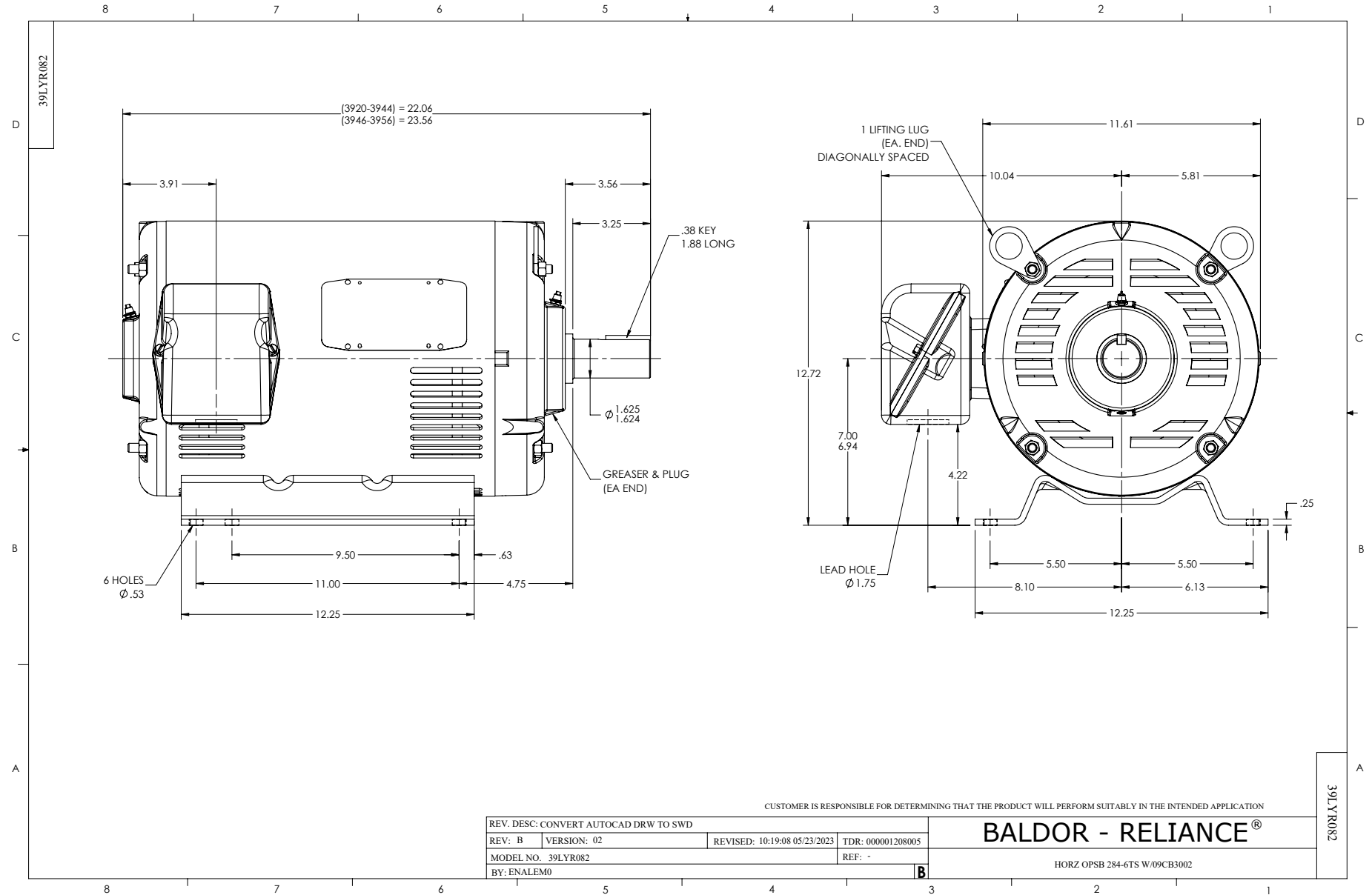
WINDING # 39WGX990

Typical performance - not guaranteed values.

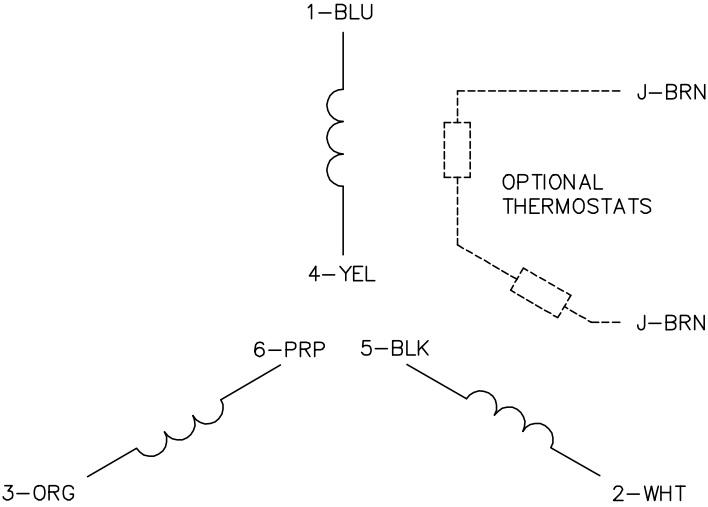
30 HP 3 PH 60 HZ 3505 RPM 575 V 3936M

TORQUES (LB-FT): PO=157 PU=47.7 LR=67.4 LRA=171

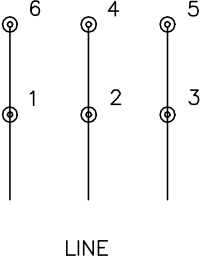




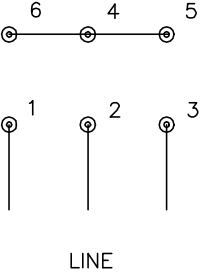
CD0382



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: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

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