Customer information packet

VJPFPM2514T-5

20HP, 3450RPM, 3PH, 60HZ, 254JP, 3742M, OPSB, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	254JP
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	20.000 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	18.500 A @ 575.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
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	18.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	L
Type	AC
Mech. spec.	37N805
Base	
Status	PRD/A
Elec. spec.	37WGR925
Layout	37LYN805
Eff. date	09-01-2022
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	07-21-2016

KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3742M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.66 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
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.	VJPFPM2514T-5				**CUST P/N**					**I.P.**	23				
SPEC.	37N805R925H1				**SER.NO.**					**FRAME**	254JP				
HZ	60	**HP**	20		**RPM**	3450	**HZ**		**HP**			**RPM**			
VOLTS	575				**CODE**	G	**VOLTS**					**CODE**			
AMPS	18.5				**DES**	B	**AMPS**					**DES**			
EFF	90.2	**SER.F.**	1.15		**PF**	90	**EFF**			**SER.F.**			**PF**		
RATING	40C AMB-CONT				**DE BRG**	6309			**GREASE**	POLYREX EM					
BLANK					**ODE BRG**	6206			**MTR. WT.**	145					
					CLASS	F	**PH**	3							
					ENCL	OPSB	**CC**	010A							
HTR-VOLTS	N/A	**HTR-AMPS**	N/A	**HTR-WATTS**	N/A										

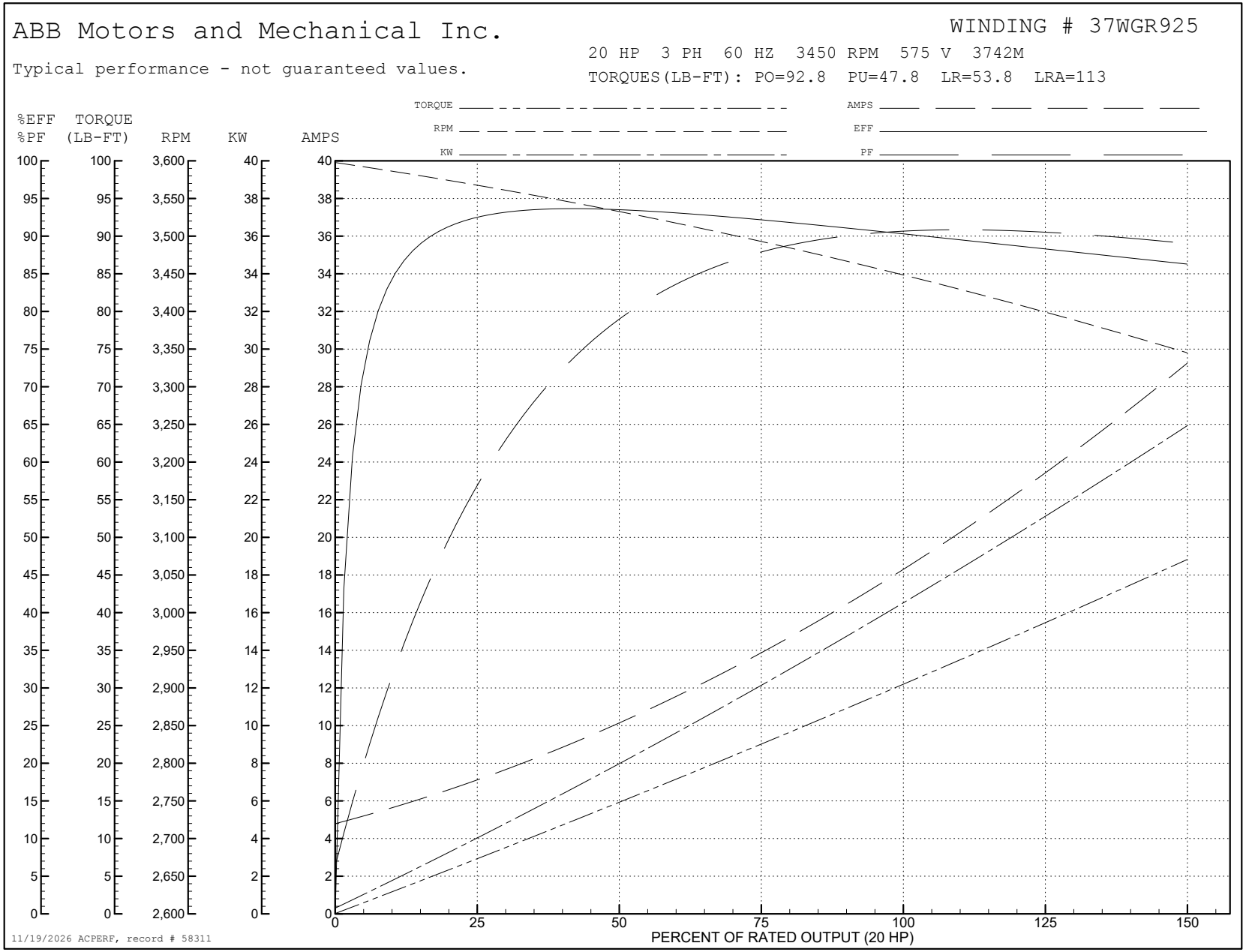
AC Induction Motor Performance Data
Record # 58311
Typical performance - not guaranteed values

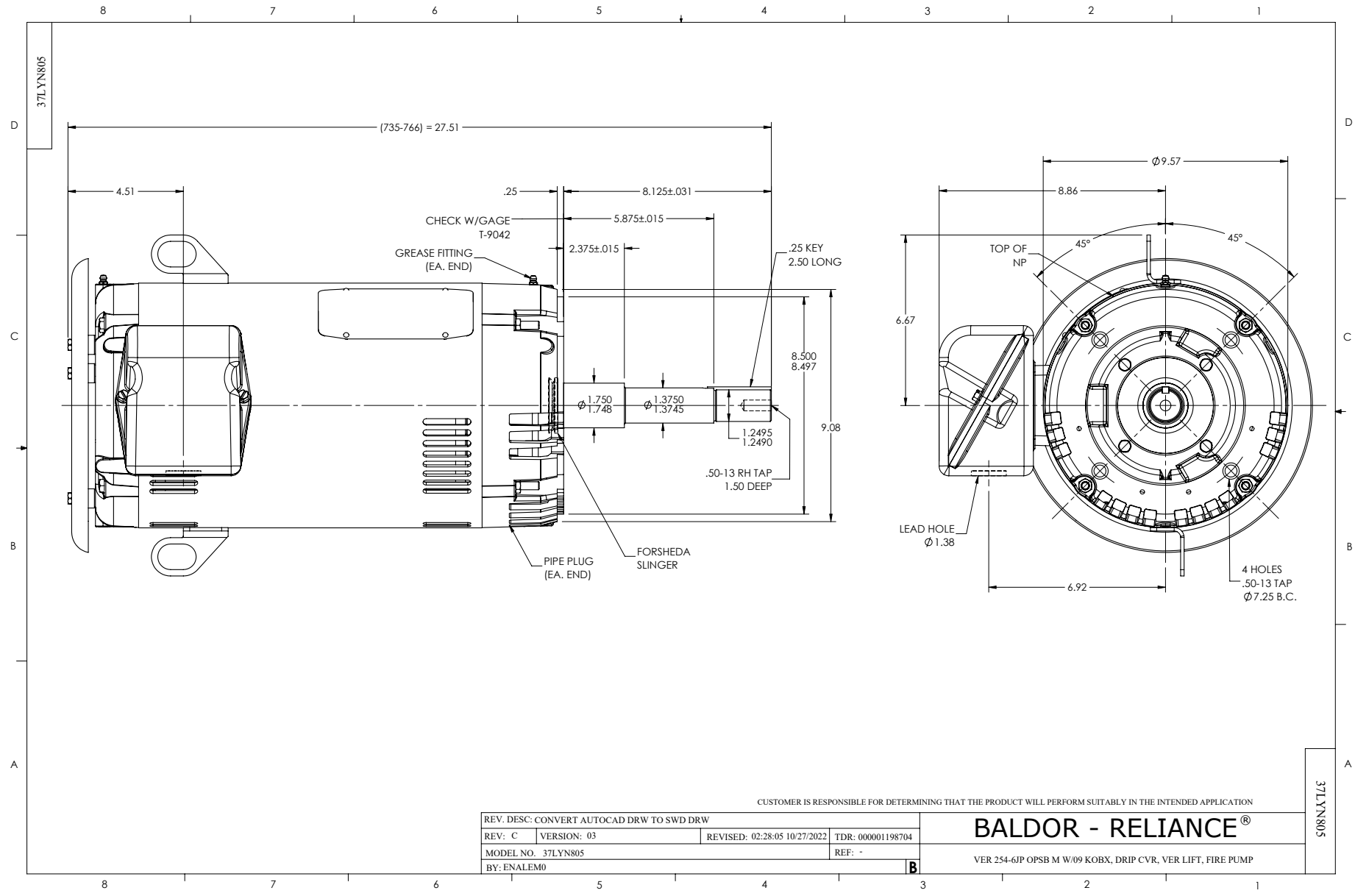
Winding: 37WGR925-R001	**Type:** 3742M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			20	**Full Load Torque**	30.3 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			18.5	**Breakdown Torque**	92.8 LB-FT
R.P.M.			3450	**Pull-up Torque**	47.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	53.8 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	113 A
Service Factor (S.F.)			1.15	**No-load Current**	5.07 A
NEMA Nom. Eff.	90.2	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.745 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps				**Temp. Rise @ S.F. Load**	82°C
				Locked-rotor Power Factor	31.6
				Rotor inertia	0.383 LB-FT2

Load Characteristics 575 V, 60 Hz, 20 HP

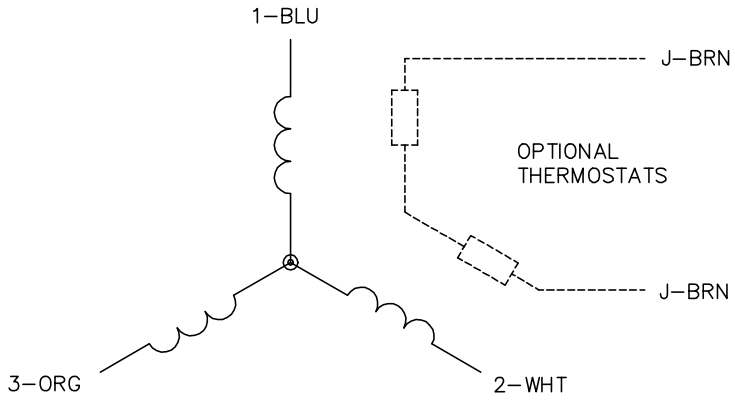
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	62	81	87	89	90	90	90
Efficiency	91.8	92.8	92.3	90.6	88.5	86.2	89.3
Speed	3566	3530	3493	3451	3400	3344	3420
Line amperes	6.75	10.1	14	18.4	23.5	29.1	21.5

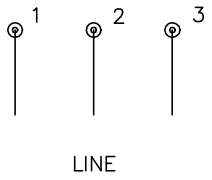

ABB Motors and Mechanical Inc.
WINDING # 37WGR925
20 HP 3 PH 60 HZ 3450 RPM 575 V 3742M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=92.8 PU=47.8 LR=53.8 LRA=113
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/19/2026 ACPERF, record # 58311


37LYN805
(735-766) = 27.51
4.51
.25
8.125±.031
5.875±.015
2.375±.015
CHECK W/GAGE T-9042
GREASE FITTING (EA. END)
.25 KEY 2.50 LONG
8.500 8.497
Ø1.750 1.748
Ø1.3750 1.3745
1.2495 1.2490
9.08
.50-13 RH TAP 1.50 DEEP
PIPE PLUG (EA. END)
FORSHEDA SLINGER
Ø9.57
8.86
TOP OF NP
45°
45°
6.67
LEAD HOLE Ø1.38
6.92
4 HOLES .50-13 TAP Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: C
VERSION: 03
REVISED: 02:28:05 10/27/2022
TDR: 000001198704
MODEL NO. 37LYN805
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VER 254-6JP OPSB M W/09 KOBX, DRIP CVR, VER LIFT, FIRE PUMP
37LYN805

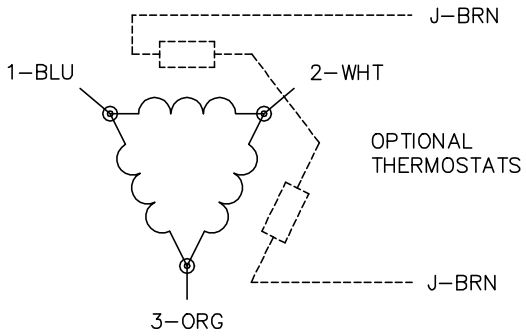
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1