ABB BALDOR RELIANCE

Customer information packet

VJPFPM2515T-5

20HP, 1755RPM, 3PH, 60HZ, 256JP, 3936M, OPSB, F
Class -
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	256JP
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	19.600 A @ 575.0 V
Design Code	B
Drip Cover	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	19.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F

Part Detail

Revision	N
Type	AC
Mech. spec.	39N092
Base	
Status	PRD/A
Elec. spec.	39WGX987
Layout	39LYN092
Eff. date	06-26-2024
CD Diagram	CD0382
Poles	04
Leads	6#12
Proprietary	False
Created date	07-22-2016

Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	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	4
Overall Length	28.07 IN
Power Factor	83
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.750 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1755 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.	VJPFPM2515T-5			**CUST P/N**				**I.P.**	23			
SPEC.	39N092X987H2			**SER.NO.**				**FRAME**	256JP			
HZ	60	**HP**	20	**RPM**	1755	**HZ**		**HP**		**RPM**		
VOLTS	575			**CODE**	F	**VOLTS**				**CODE**		
AMPS	19.6			**DES**	B	**AMPS**				**DES**		
EFF	91	**SER.F.**	1.15	**PF**	83	**EFF**		**SER.F.**			**PF**	
RATING	40C AMB-CONT			**DE BRG**	6309			**GREASE**	POLYREX EM			
BLANK				**ODE BRG**	6208			**MTR. WT.**	208			
				CLASS	F	**PH**	3					
				ENCL	OPSB	**CC**	010A					
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**								

AC Induction Motor Performance Data
Record # 58294
Typical performance - not guaranteed values

Winding: 39WGX987-R001	**Type:** 3936M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			20	**Full Load Torque**	59.2 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			19.6	**Breakdown Torque**	177 LB-FT
R.P.M.			1755	**Pull-up Torque**	73.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	105 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	109 A
Service Factor (S.F.)			1.15	**No-load Current**	7.71 A
NEMA Nom. Eff.	91	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.916 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	35.6
				Rotor inertia	1.57 LB-FT2

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	70	79	83	86	86	85
Efficiency	87.7	91.6	91.9	91.1	89.9	88.2	90.4
Speed	1790	1781	1770	1759	1746	1730	1751
Line amperes	8.98	11.8	15.5	19.6	24.4	29.6	22.5

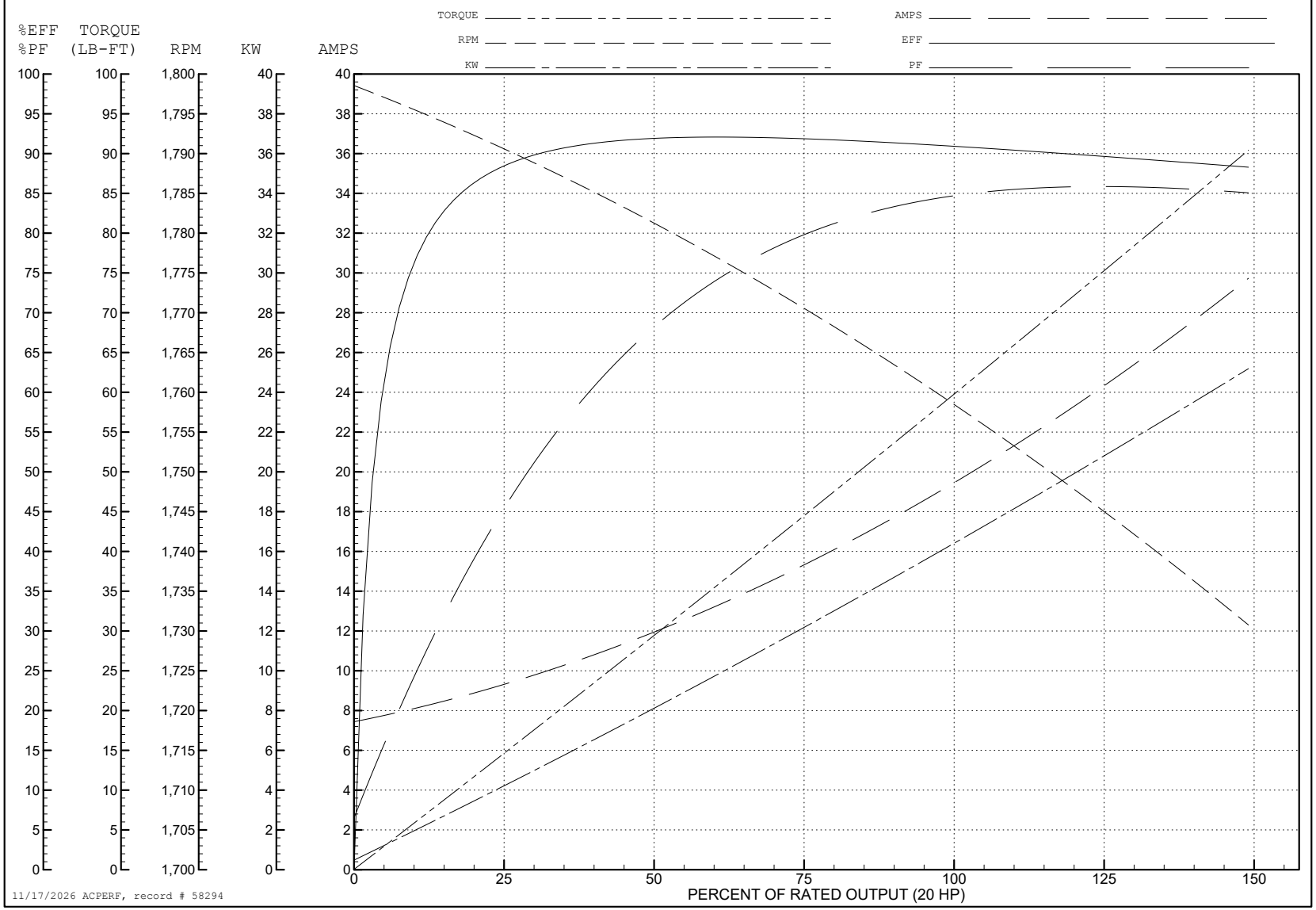
ABB Motors and Mechanical Inc.

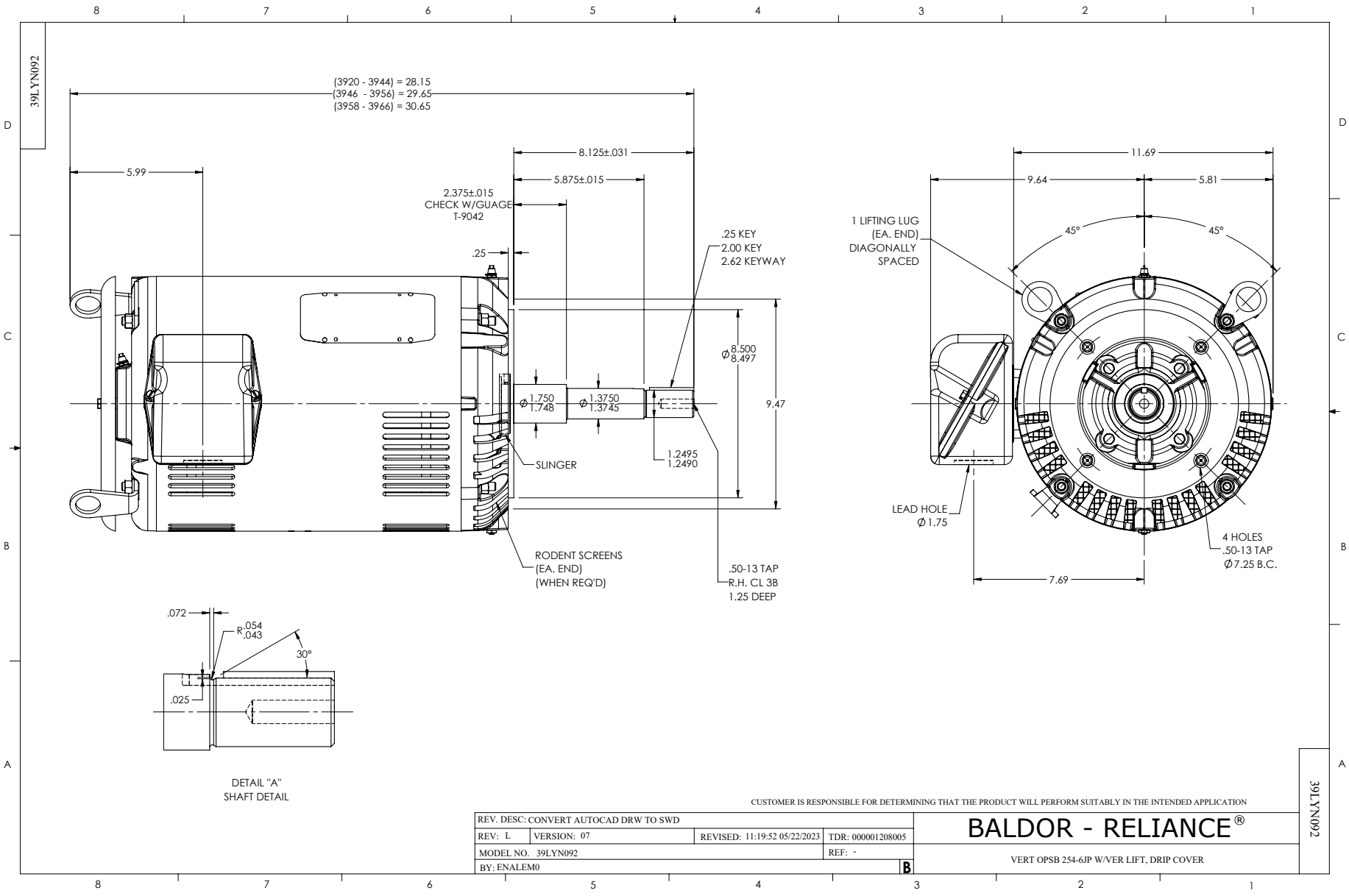
WINDING # 39WGX987

20 HP 3 PH 60 HZ 1755 RPM 575 V 3936M

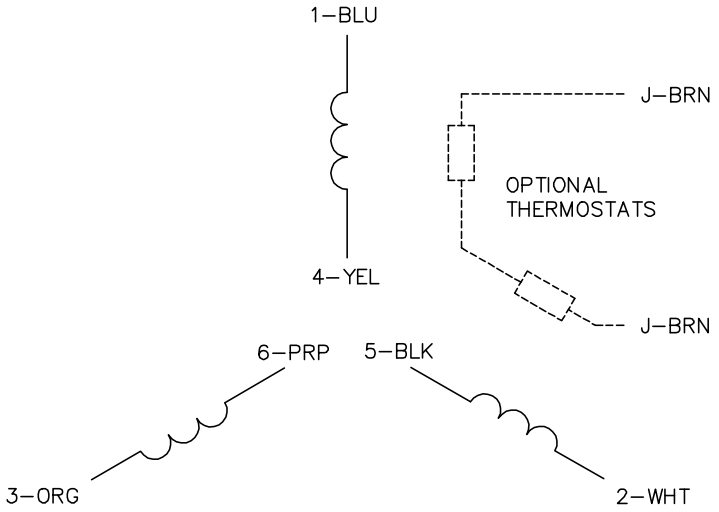
Typical performance - not guaranteed values.

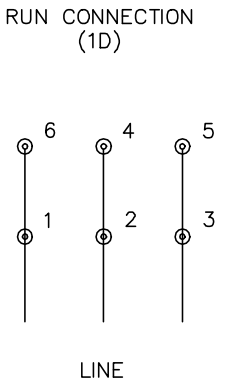
TORQUES(LB-FT): PO=177 PU=73.5 LR=105 LRA=109

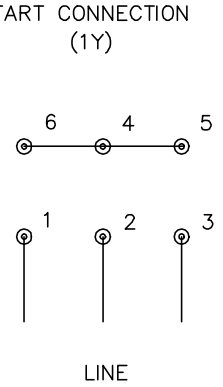



39LYN092
(3920 - 3944) = 28.15
(3946 - 3956) = 29.65
(3958 - 3966) = 30.65
5.99
8.125±.031
5.875±.015
2.375±.015
CHECK W/GUAGE
T-9042
.25
.25 KEY
2.00 KEY
2.62 KEYWAY
Ø8.500
8.497
9.47
Ø1.750
1.748
Ø1.3750
1.3745
SLINGER
1.2495
1.2490
RODENT SCREENS
(EA. END)
(WHEN REQ'D)
.50-13 TAP
R.H. CL 3B
1.25 DEEP
11.69
9.64
5.81
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
45°
45°
LEAD HOLE
Ø1.75
4 HOLES
.50-13 TAP
Ø7.25 B.C.
7.69
.072
R.054
.043
30°
.025
DETAIL "A"
SHAFT DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: L
VERSION: 07
REVISED: 11:19:52 05/22/2023
TDR: 000001208005
MODEL NO. 39LYN092
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT OPSB 254-6JP W/VER LIFT, DRIP COVER
39LYN092

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

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