ABB BALDOR RELIANCE

Customer information packet

VJPFPM2550T-5

100HP, 3530RPM, 3PH, 60HZ, 365JP, 4260M, OPSB

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Specifications

Enclosure	OPSB
Frame	365JP
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	90.000 A @ 575.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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	90.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Vertical Lifting Lugs

Part Detail

Revision	H
Type	AC
Mech. spec.	42E338
Base	
Status	PRD/A
Elec. spec.	42WGX105
Layout	42LYE338
Eff. date	07-24-2023
CD Diagram	CD0382
Poles	02
Leads	6#6
Proprietary	False
Created date	07-22-2016

Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4260M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	33.50 IN
Power Factor	89
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	1.577 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3530 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.	VJPFPM2550T-5			**CUST P/N**				**I.P.**	23			
SPEC.	42E338X105H2			**SER.NO.**				**FRAME**	365JP			
HZ	60	**HP**	100	**RPM**	3530	**HZ**		**HP**		**RPM**		
VOLTS	575			**CODE**	F	**VOLTS**				**CODE**		
AMPS	90			**DES**	B	**AMPS**				**DES**		
EFF	93	**SER.F.**	1.15	**PF**	89	**EFF**		**SER.F.**			**PF**	
RATING	40C AMB-CONT			**DE BRG**	6313			**GREASE**	POLYREX EM			
BLANK				**ODE BRG**	6311			**MTR. WT.**	523			
				CLASS	F	**PH**	3					
				ENCL	OPSB	**CC**	010A					
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**								

AC Induction Motor Performance Data
Record # 58315
Typical performance - not guaranteed values

Winding: 42WGX105-R001	**Type:** 4260M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			100	**Full Load Torque**	148 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			90	**Breakdown Torque**	505 LB-FT
R.P.M.			3530	**Pull-up Torque**	201 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	244 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	547 A
Service Factor (S.F.)			1.15	**No-load Current**	21.1 A
NEMA Nom. Eff.	93	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.0974 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
S.F. Amps				**Temp. Rise @ S.F. Load**	68°C
				Locked-rotor Power Factor	20.9
				Rotor inertia	4.69 LB-FT2

Load Characteristics 575 V, 60 Hz, 100 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	67	83	87	89	88	87	88
Efficiency	91.9	94.1	93.9	93.2	92.1	90.6	92.5
Speed	3587	3572	3555	3536	3514	3490	3523
Line amperes	30.8	48.2	68.7	90.3	114	140	105

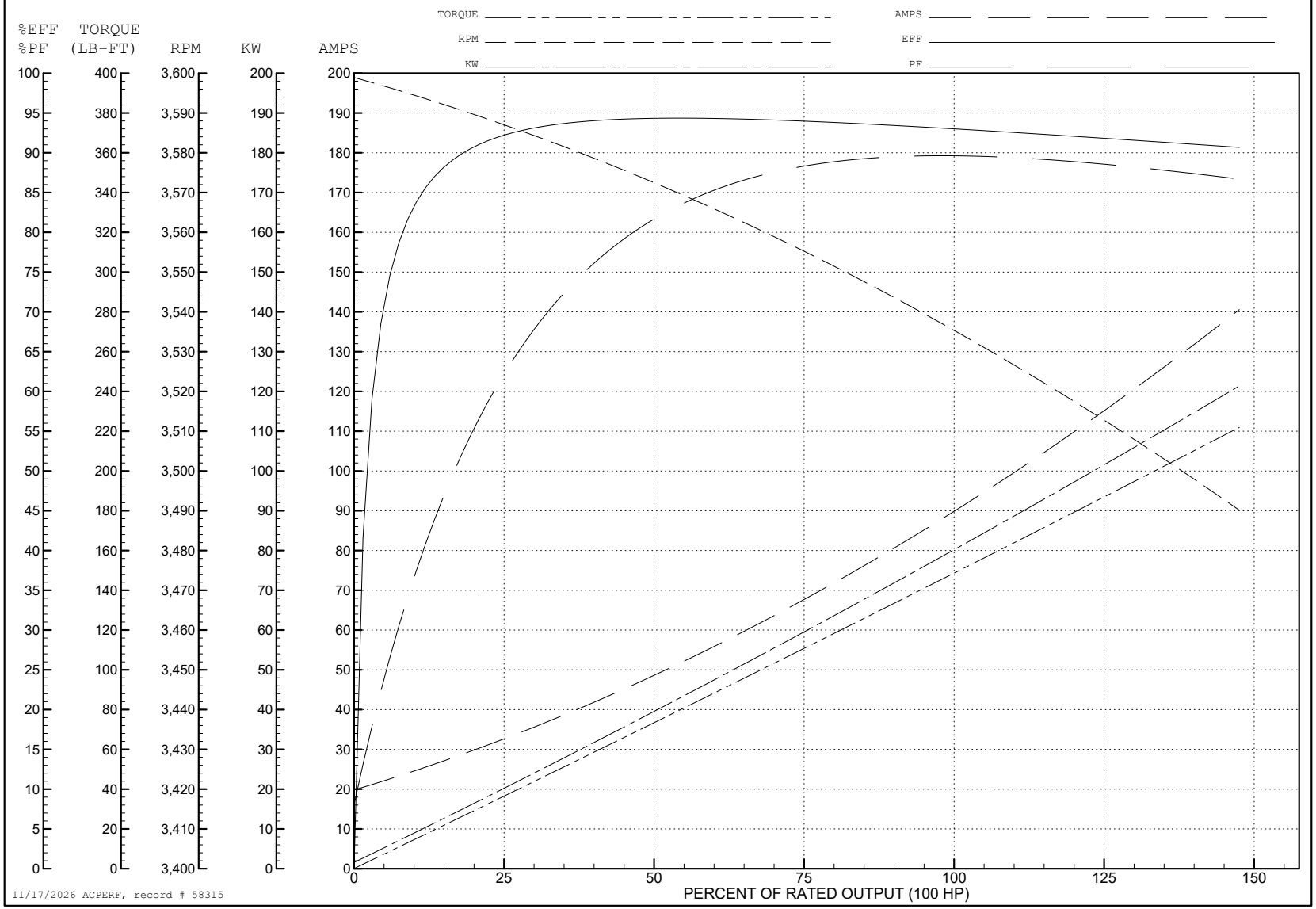
ABB Motors and Mechanical Inc.

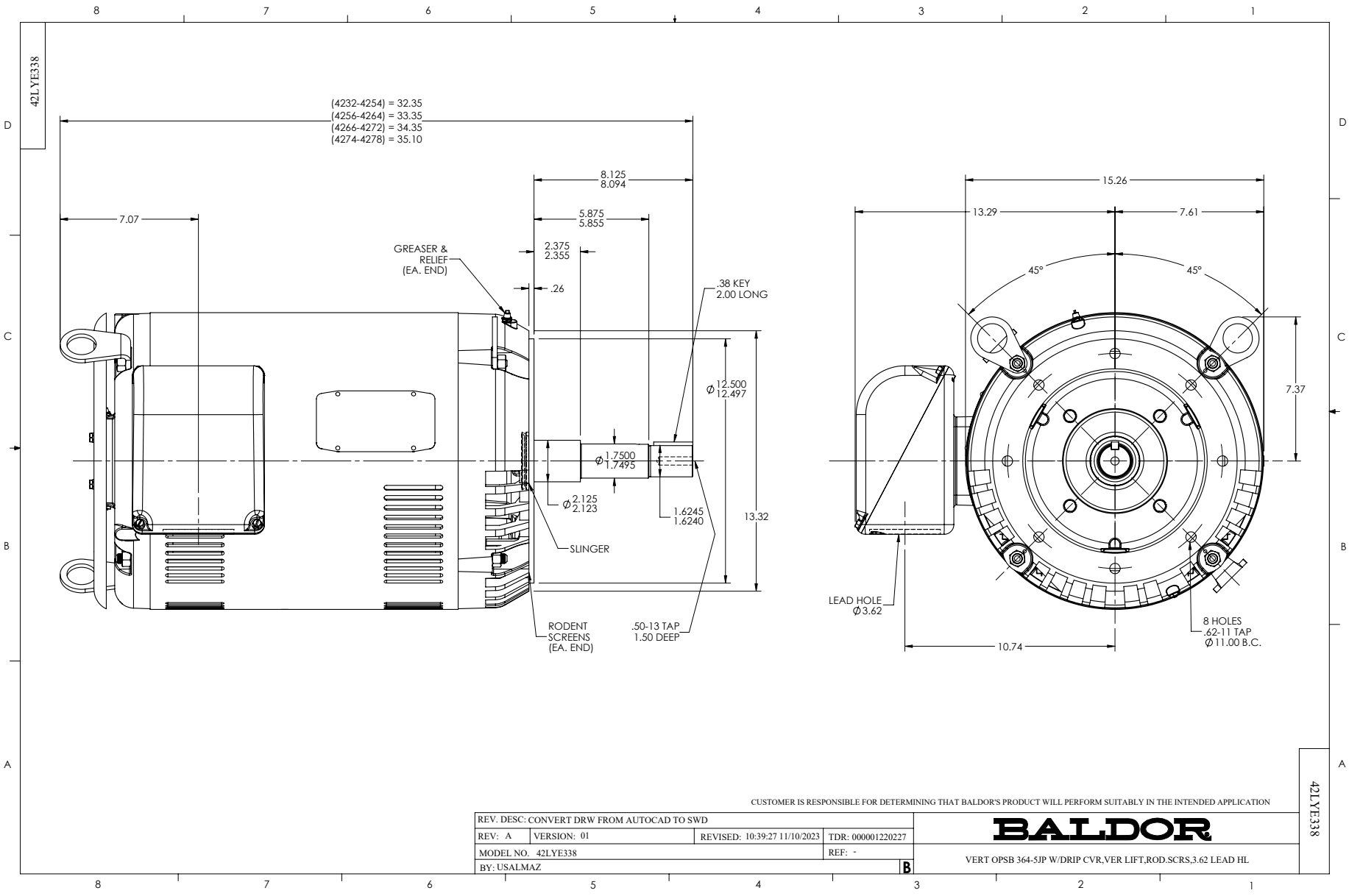
WINDING # 42WGX105

100 HP 3 PH 60 HZ 3530 RPM 575 V 4260M

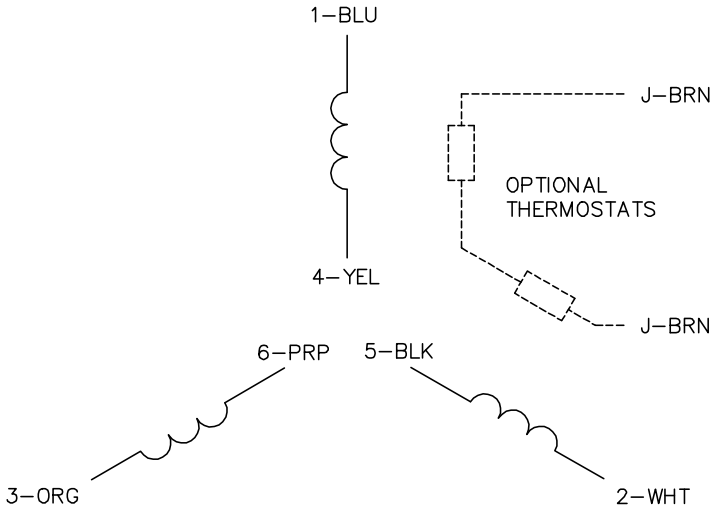
TORQUES(LB-FT): PO=505 PU=201 LR=244 LRA=547

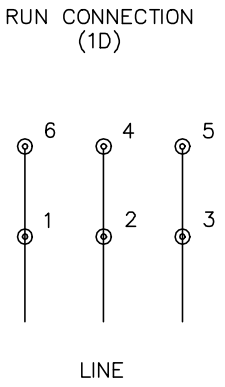
Typical performance - not guaranteed values.

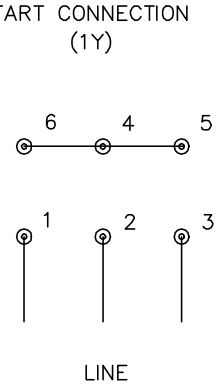



42LYE338
(4232-4254) = 32.35
(4256-4264) = 33.35
(4266-4272) = 34.35
(4274-4278) = 35.10
8.125
8.094
7.07
5.875
5.855
GREASER & RELIEF (EA. END)
2.375
2.355
.26
.38 KEY
2.00 LONG
Ø 12.500
12.497
Ø 1.7500
1.7495
Ø 2.125
2.123
1.6245
1.6240
13.32
SLINGER
RODENT SCREENS (EA. END)
.50-13 TAP
1.50 DEEP
15.26
13.29
7.61
45°
45°
7.37
LEAD HOLE Ø3.62
10.74
8 HOLES
.62-11 TAP
Ø11.00 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT DRW FROM AUTOCAD TO SWD
REV: A
VERSION: 01
REVISED: 10:39:27 11/10/2023
TDR: 000001220227
MODEL NO. 42LYE338
REF: -
BY: USALMAZ
B
BALDOR
VERT OPSB 364-5JP W/DRIP CVR,VER LIFT,ROD.SCRS,3.62 LEAD HL
42LYE338

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

SH 1 of 1