

ABB BALDOR RELIANCE III

Customer information packet

VJPFPM2550T-5

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

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. @ 25°C		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

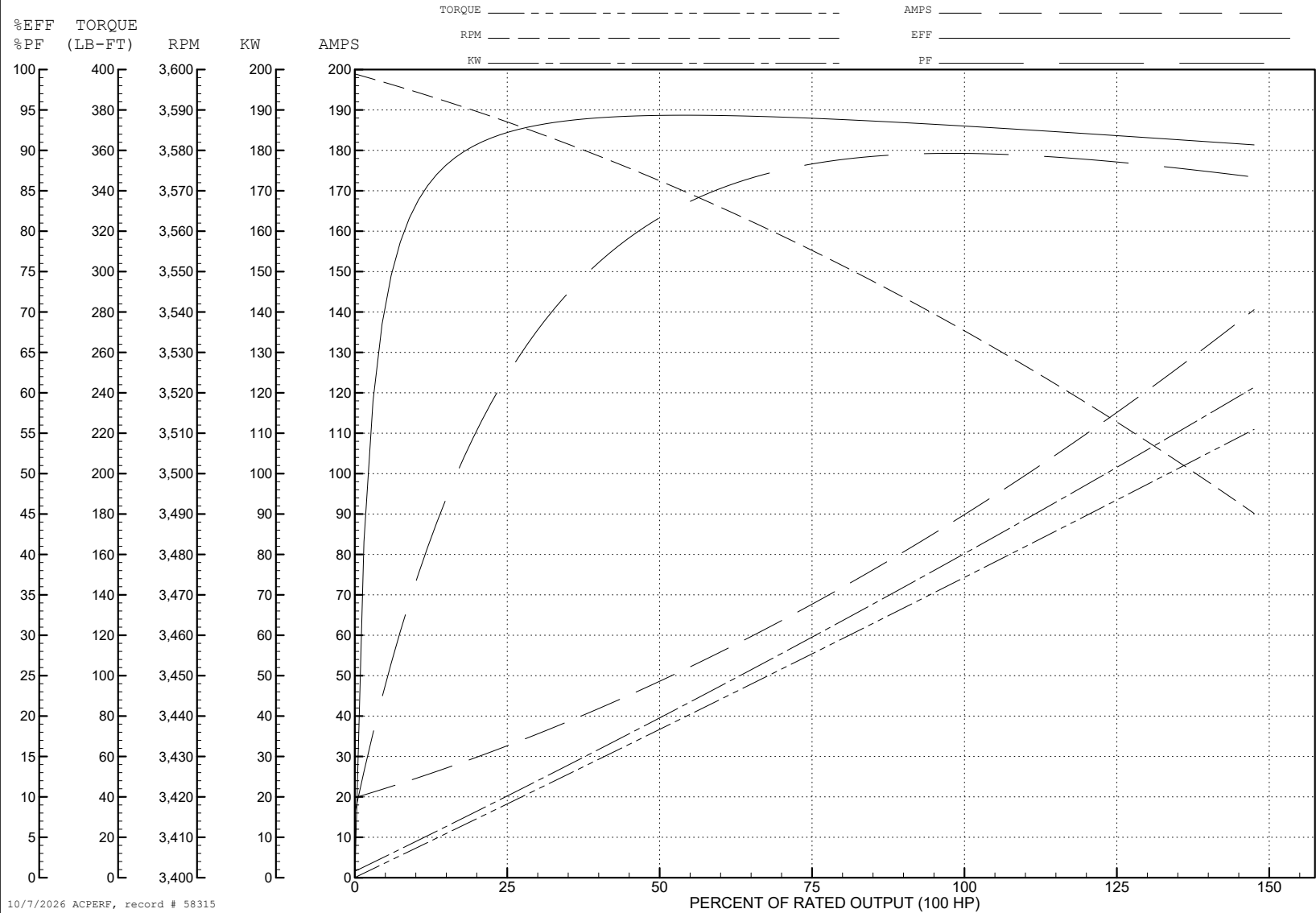
ABB Motors and Mechanical Inc.

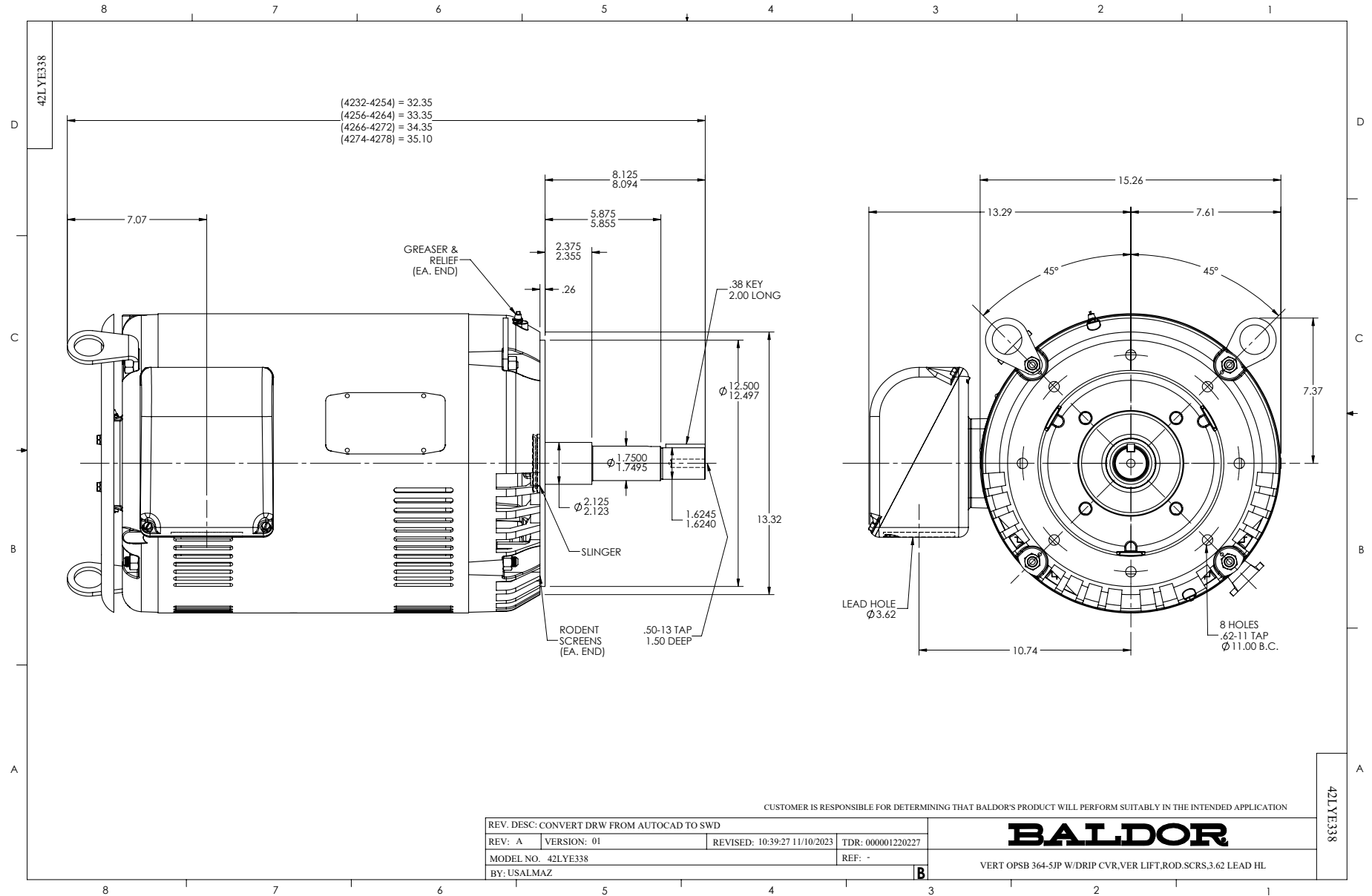
WINDING # 42WGX105

Typical performance - not guaranteed values.

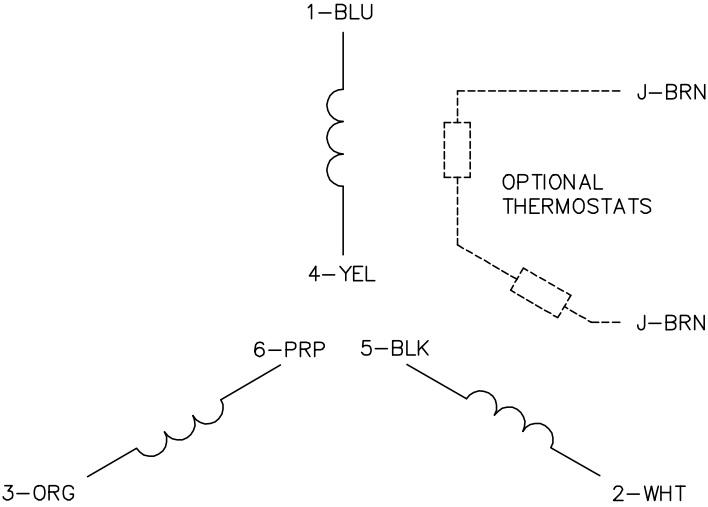
100 HP 3 PH 60 HZ 3530 RPM 575 V 4260M

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

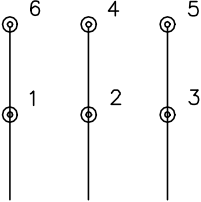




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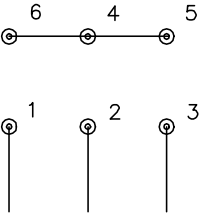


RUN CONNECTION
(1D)



LINE

START CONNECTION
(1Y)



LINE

- 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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