

ABB BALDOR RELIANCE III

Customer information packet

VL5004A

.5HP, 1725RPM, 1PH, 60HZ, 56C, X3424L, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UL CSA UR
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	3.700 A @ 230.0 V 3.900 A @ 208.0 V 7.400 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	64.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AS
Type	AC
Mech. spec.	34-5335
Base	
Status	PRD/A
Elec. spec.	34WGW369
Layout	34LY5335
Eff. date	09-10-2024
CD Diagram	CD0565
Poles	04
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.22 IN
Power Factor	66
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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	Automatic Thermal Overload
Winding Thermal 1 Location	EP

Nameplate

NP0016XPSL									
NO.			CC						
SER. #									
SPEC	34-5335W369								
CAT.NO.	VL5004A								
H.P.	.5	T. CODE			T3C				
VOLTS	115/208-230								
AMPS	7.4/3.9-3.7								
R.P.M.	1725								
HZ	60	PH	1	CLASS			B		
SER.F.	1.00	DES		N	CODE			J	
RATING	40C AMB-CONT								
FRAME	56C	NEMA NOM. EFF						64	
		PF	66						
BLANK									

AC Induction Motor Performance Data

Record # 48773

Typical performance - not guaranteed values

Winding: 34WGW369-R001			Type: 3424L		Enclosure: XPFC		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		1.5 LB-FT		
Volts		115/208-230	Start Configuration		direct on line		
Full Load Amps		7.4/3.9-3.7	Breakdown Torque		4.4 LB-FT		
R.P.M.		1725	Pull-up Torque		4 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		5.1 LB-FT	
NEMA Design Code		N	KVA Code	J	Starting Current		38.8 A
Service Factor (S.F.)			1	No-load Current		5.62 A	
NEMA Nom. Eff.		64	Power Factor	66	Line-line Res. @ 25°C		0.913 Ω A Ph 2.88 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		61°C	
				Locked-rotor Power Factor		89.3	
				Rotor inertia		0.057 LB-FT2	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	37	48	59	67	74	79
Efficiency	38.9	55.3	62.3	64.9	65.3	63.8
Speed	1781	1768	1753	1736	1717	1696
Line amperes	5.78	6.12	6.62	7.38	8.26	9.38

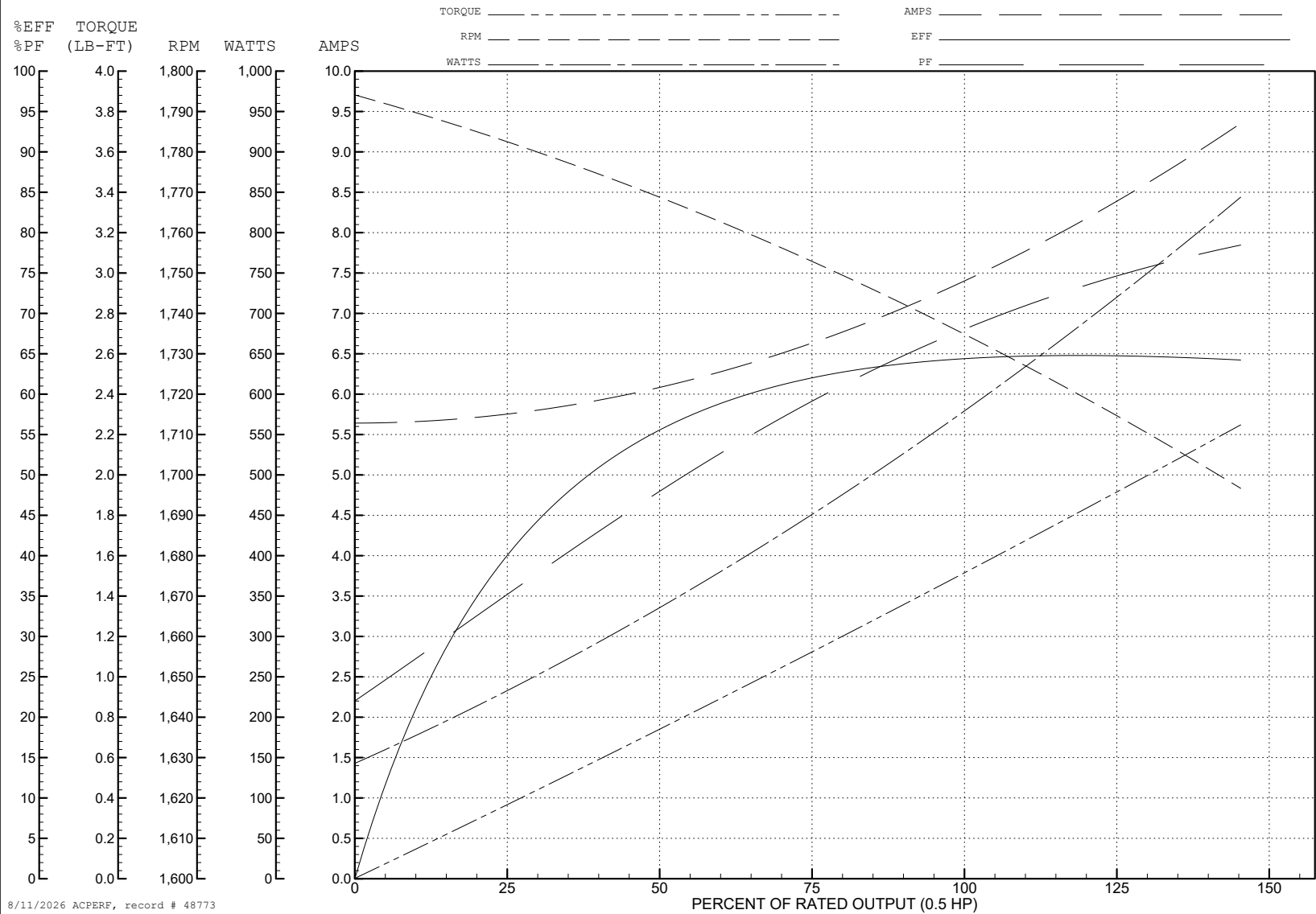
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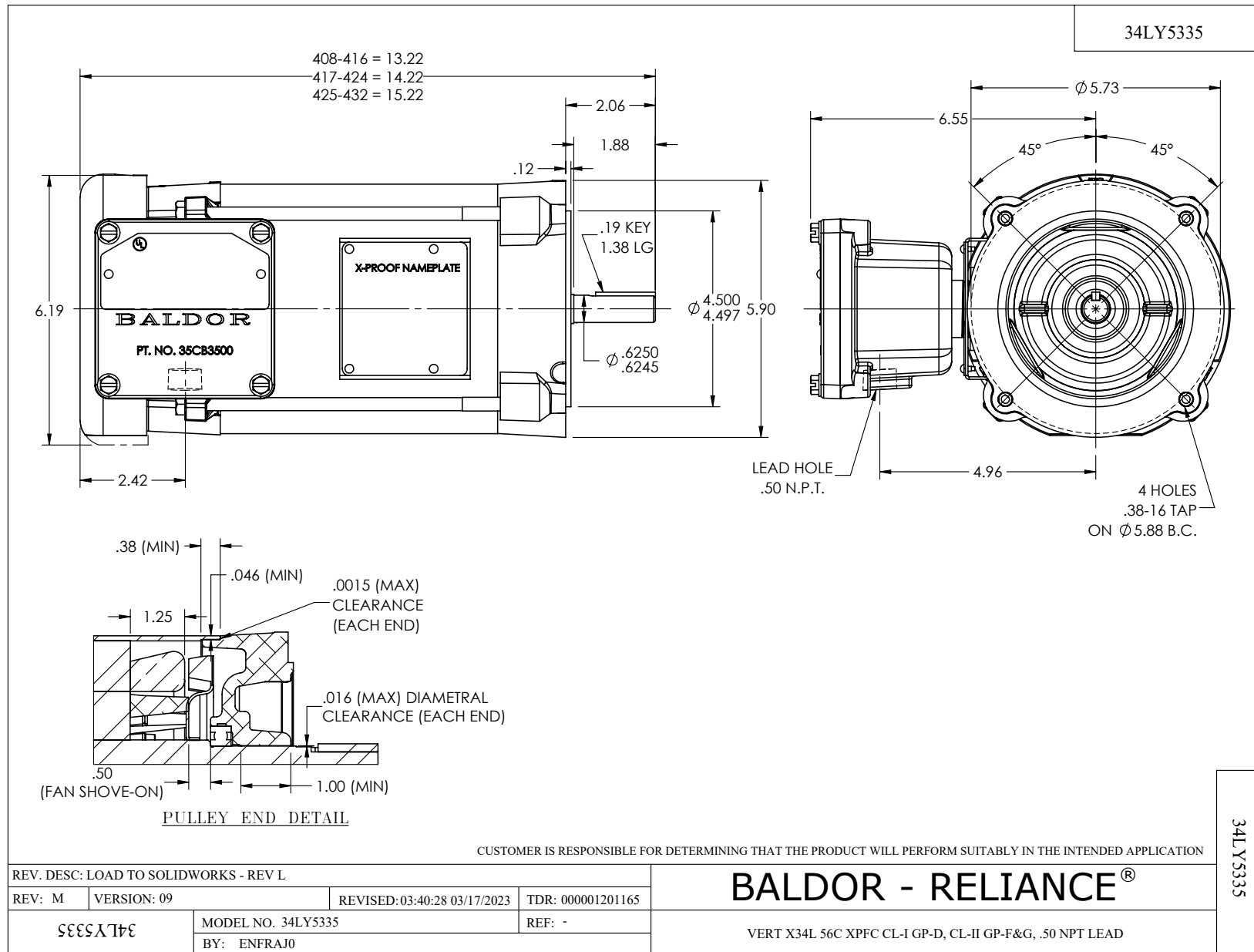
WINDING # 34WGW369

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1725 RPM 115 V 3424L

TORQUES (LB-FT) : PO=4.4 PU=4 LR=5.1 LRA=38.8





CD0565

