

ABB BALDOR RELIANCE III

Customer information packet

VXL050342A

.33HP, 1725RPM, 1PH, 60HZ, 56C, 3414L, 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	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA 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	3.000 A @ 230.0 V 3.200 A @ 208.0 V 6.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	60.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WG5597
Layout	34LY5335
Eff. date	09-12-2024
CD Diagram	CD0565
Poles	04
Leads	7#18
Proprietary	False
Created date	04-16-2021

High Voltage Full Load Amps	3.0 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.22 IN
Power Factor	60
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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	ES
Winding Thermal 2	None

Nameplate

NP0016XPSL									
NO.		CC							
SER. #									
SPEC	34-0000-0406								
CAT.NO.	VXL050342A								
H.P.	.33		T. CODE	T3C					
VOLTS	115/208-230								
AMPS	6/3.2-3								
R.P.M.	1725								
HZ	60		PH	1		CLASS	B		
SER.F.	1.00		DES	N		CODE	L		
RATING	40C AMB-CONT								
FRAME	56C		NEMA NOM. EFF					60	
		PF	60						
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 6785

Typical performance - not guaranteed values

Winding: 34WG5597-R002			Type: 3414L		Enclosure: XPFC			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.33	Full Load Torque		1 LB-FT			
Volts		115/208-230	Start Configuration		direct on line			
Full Load Amps		6/3.2-3	Breakdown Torque		2.95 LB-FT			
R.P.M.		1725	Pull-up Torque		2.55 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		3.6 LB-FT		
NEMA Design Code		N	KVA Code	L	Starting Current		13 A	
Service Factor (S.F.)		1	No-load Current		2.6 A			
NEMA Nom. Eff.		60	Power Factor		60	Line-line Res. @ 25°C		6.32 Ω A Ph 4.93 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		59°C	

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	31	41	52	60	67	73
Efficiency	33	41	52	60	61.5	61.5
Speed	1780	1760	1745	1725	1705	1680
Line amperes	2.6	2.7	2.8	3	3.3	3.7

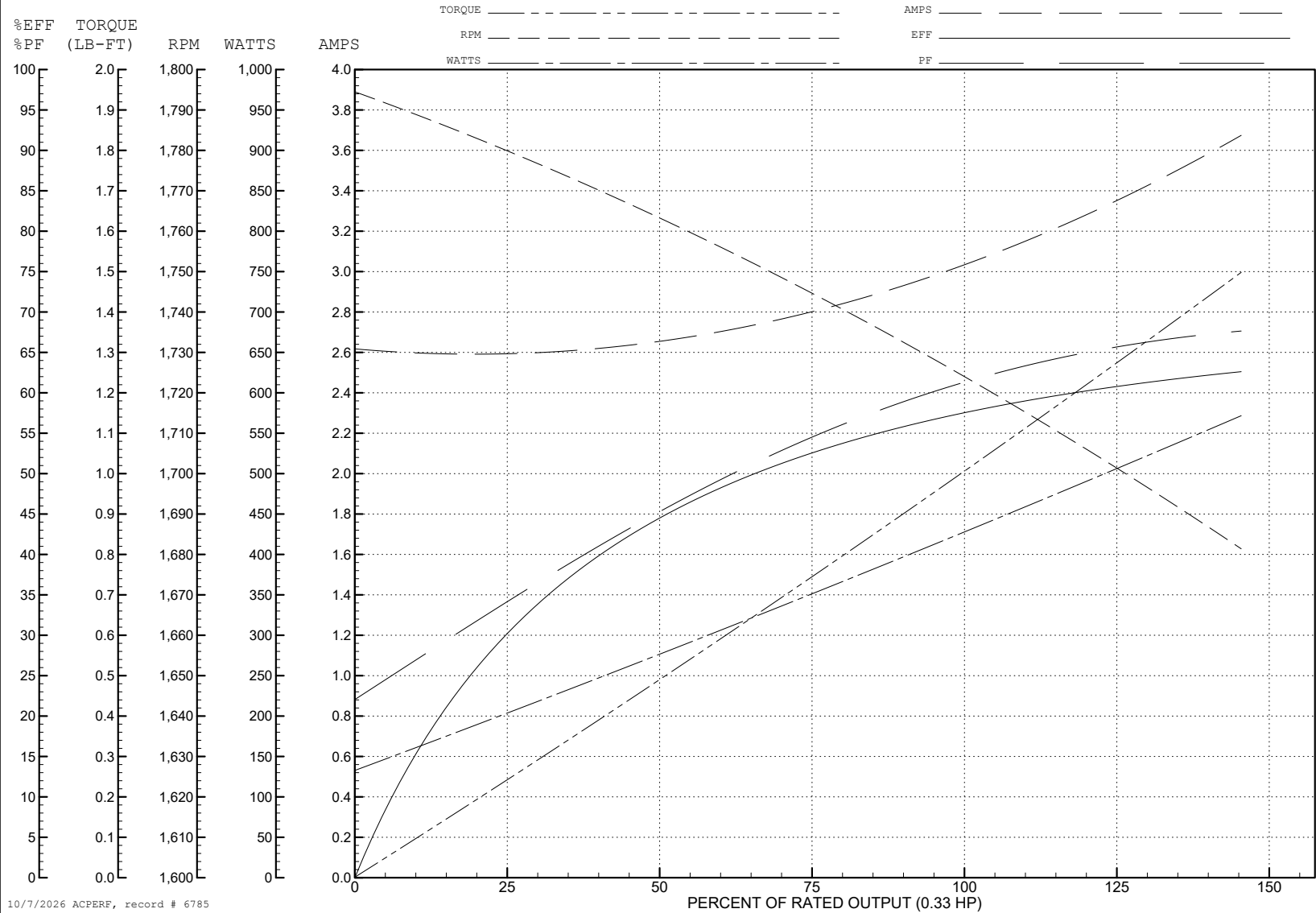
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WINDING # 34WG5597

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1725 RPM 230 V 3414L

TORQUES (LB-FT) : PO=2.95 PU=2.55 LR=3.6 LRA=13



AC Induction Motor Performance Data

Record # 39599

Typical performance - not guaranteed values

Winding: 34WG5597-R002			Type: 3414L		Enclosure: XPFC	
Nameplate Data				115 V, 60 Hz: Low Voltage Connection		
Rated Output (HP)		.33		Full Load Torque		1 LB-FT
Volts		115/208-230		Start Configuration		direct on line
Full Load Amps		6/3.2-3		Breakdown Torque		2.95 LB-FT
R.P.M.		1725		Pull-up Torque		2.55 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		3.6 LB-FT
NEMA Design Code		N	KVA Code	Starting Current		26 A
Service Factor (S.F.)		1		No-load Current		5.2 A
NEMA Nom. Eff.		60	Power Factor	Line-line Res. @ 25°C		1.5 Ω A Ph 4.81 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		59°C

Load Characteristics 115 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	32	49	55	59	65	68
Efficiency	32.9	41	52.1	60.1	61.6	61.5
Speed	1780	1760	1745	1725	1705	1680
Line amperes	5.2	5.4	5.6	6	6.6	7.4

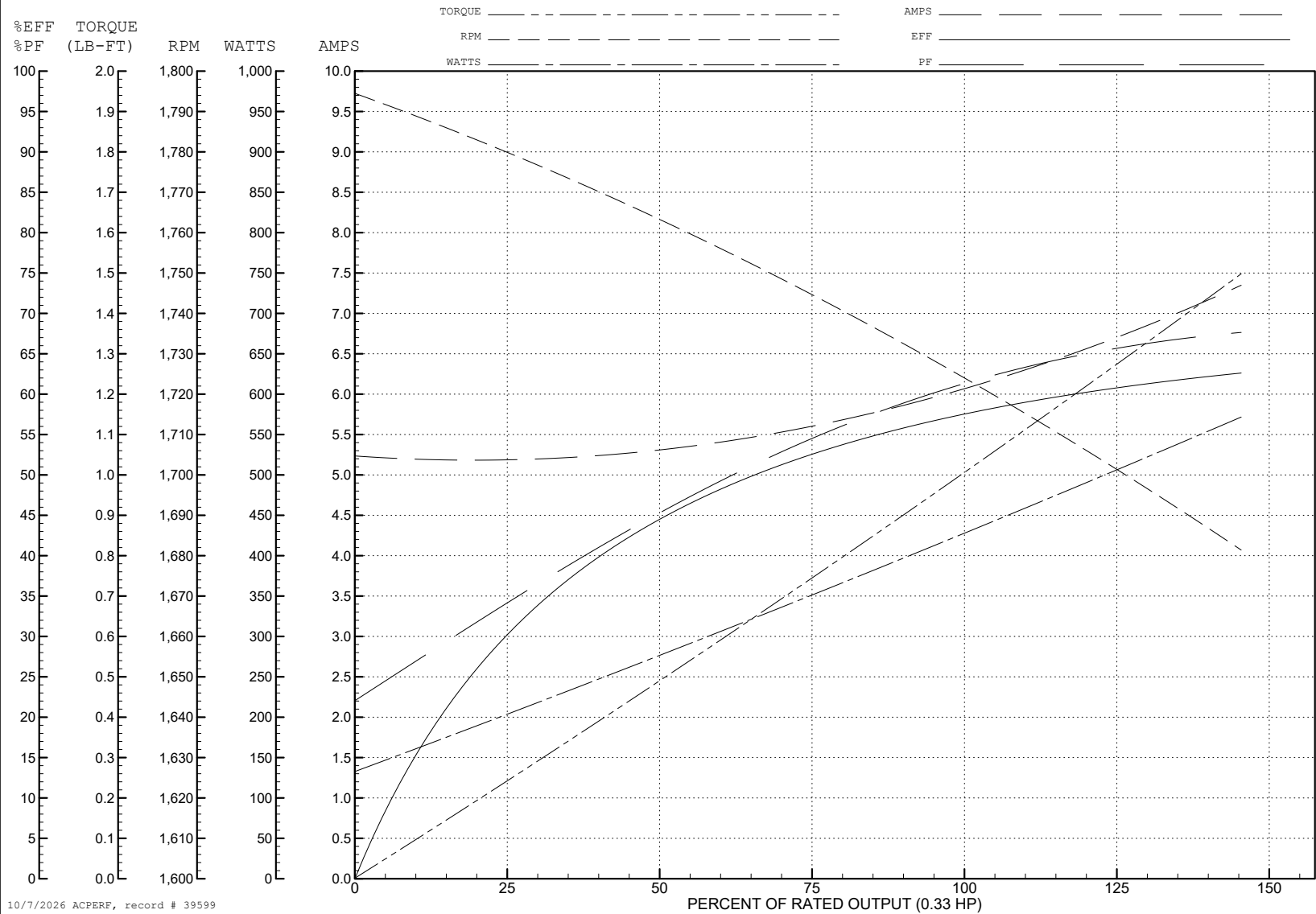
ABB Motors and Mechanical Inc.

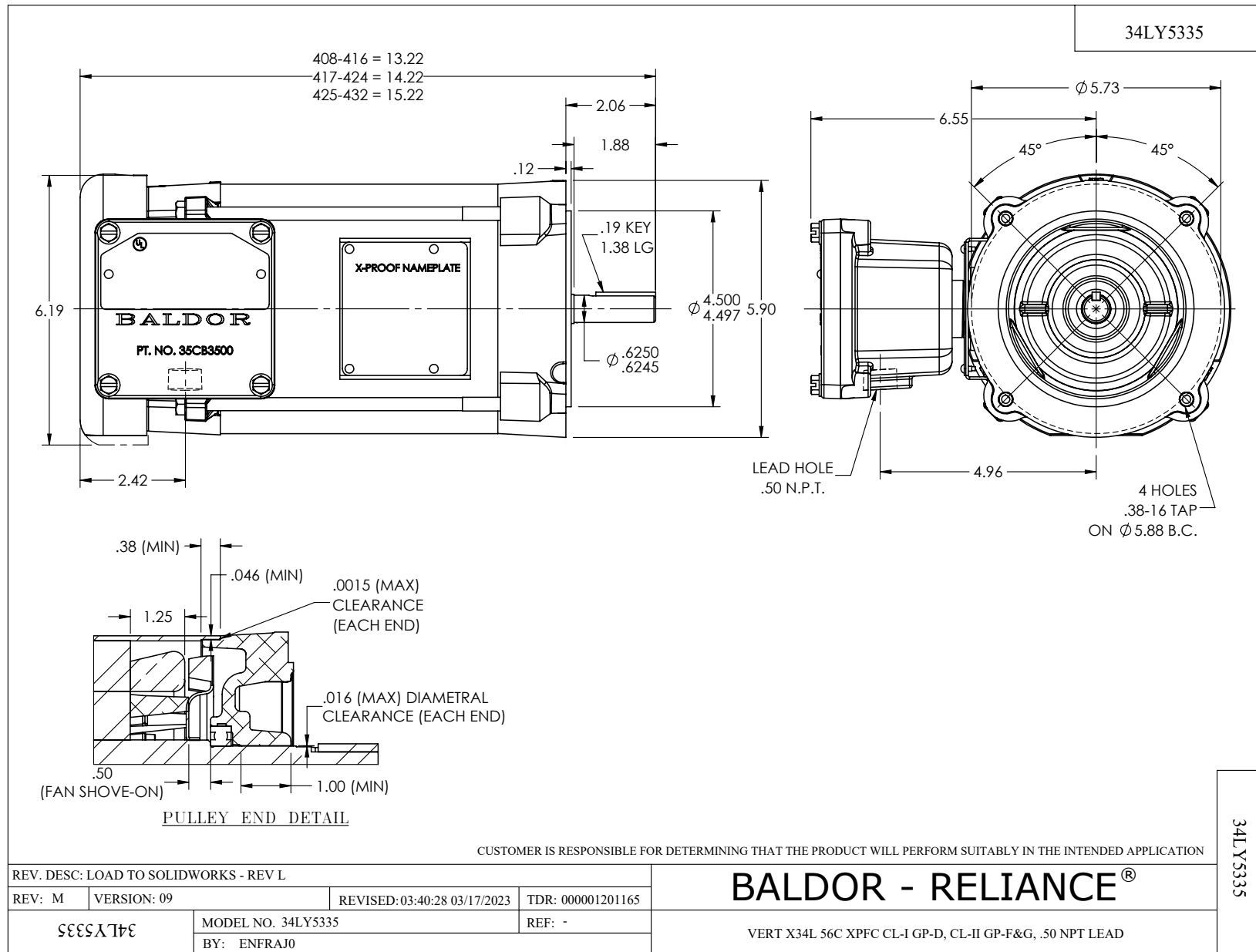
WINDING # 34WG5597

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1725 RPM 115 V 3414L

TORQUES (LB-FT) : PO=2.95 PU=2.55 LR=3.6 LRA=26





CD0565

