

ABB BALDOR RELIANCE III

Customer information packet

VXL050242A

.25HP, 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	.250 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	2.000 A @ 208.0 V 2.100 A @ 230.0 V 4.200 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WGY855
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	2.0 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	64
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	EP
Winding Thermal 2	None

Nameplate

NP0016XPSL									
NO.		CC							
SER. #									
SPEC	34-0000-0404								
CAT.NO.	VXL050242A								
H.P.	.25		T. CODE		T3C				
VOLTS	115/208-230								
AMPS	4.2/2-2.1								
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					62	
		PF	64						
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 36349

Typical performance - not guaranteed values

Winding: 34WGY855-R006			Type: 3414L		Enclosure: XPFC	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.25		Full Load Torque		0.762 LB-FT
Volts		115/208-230		Start Configuration		direct on line
Full Load Amps		4.2/2-2.1		Breakdown Torque		2.38 LB-FT
R.P.M.		1725		Pull-up Torque		1.68 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		2.83 LB-FT
NEMA Design Code		N	KVA Code	Starting Current		10.8 A
Service Factor (S.F.)		1		No-load Current		1.67 A
NEMA Nom. Eff.		62	Power Factor	Line-line Res. @ 25°C		9.23 Ω A Ph 8.97 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		43°C

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	47	54	64	69	72
Efficiency	35.2	50	60.6	61.8	65.7	71.6
Speed	1780	1767	1753	1738	1722	1711
Line amperes	1.69	1.78	1.88	2.07	2.23	2.35

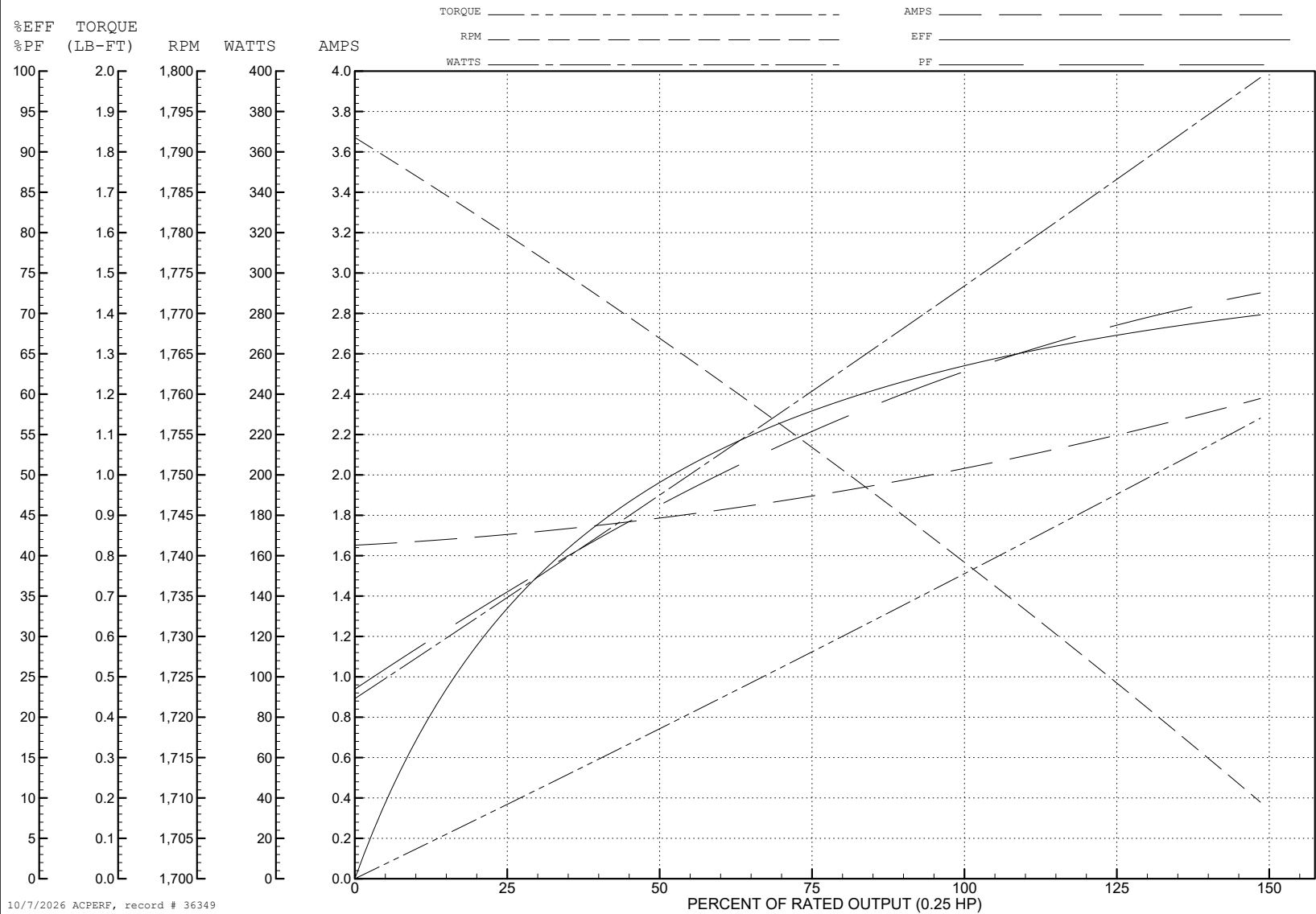
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WINDING # 34WGY855

Typical performance - not guaranteed values.

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

TORQUES (LB-FT) : PO=2.38 PU=1.68 LR=2.83 LRA=10.8



AC Induction Motor Performance Data

Record # 41431

Typical performance - not guaranteed values

Winding: 34WGY855-R006			Type: 3414L		Enclosure: XPFC	
Nameplate Data				115 V, 60 Hz: Low Voltage Connection		
Rated Output (HP)		.25		Full Load Torque		0.762 LB-FT
Volts		115/208-230		Start Configuration		direct on line
Full Load Amps		4.2/2-2.1		Breakdown Torque		2.38 LB-FT
R.P.M.		1725		Pull-up Torque		1.68 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		2.83 LB-FT
NEMA Design Code		N	KVA Code	Starting Current		21.6 A
Service Factor (S.F.)		1		No-load Current		3.34 A
NEMA Nom. Eff.		62	Power Factor	Line-line Res. @ 25°C		2.22 Ω A Ph 8.87 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		

Load Characteristics 115 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	47	55	64	69	72
Efficiency	35.2	50	60.6	61.9	65.6	71.2
Speed	1780	1767	1753	1738	1722	1711
Line amperes	3.38	3.56	3.76	4.14	4.46	4.7

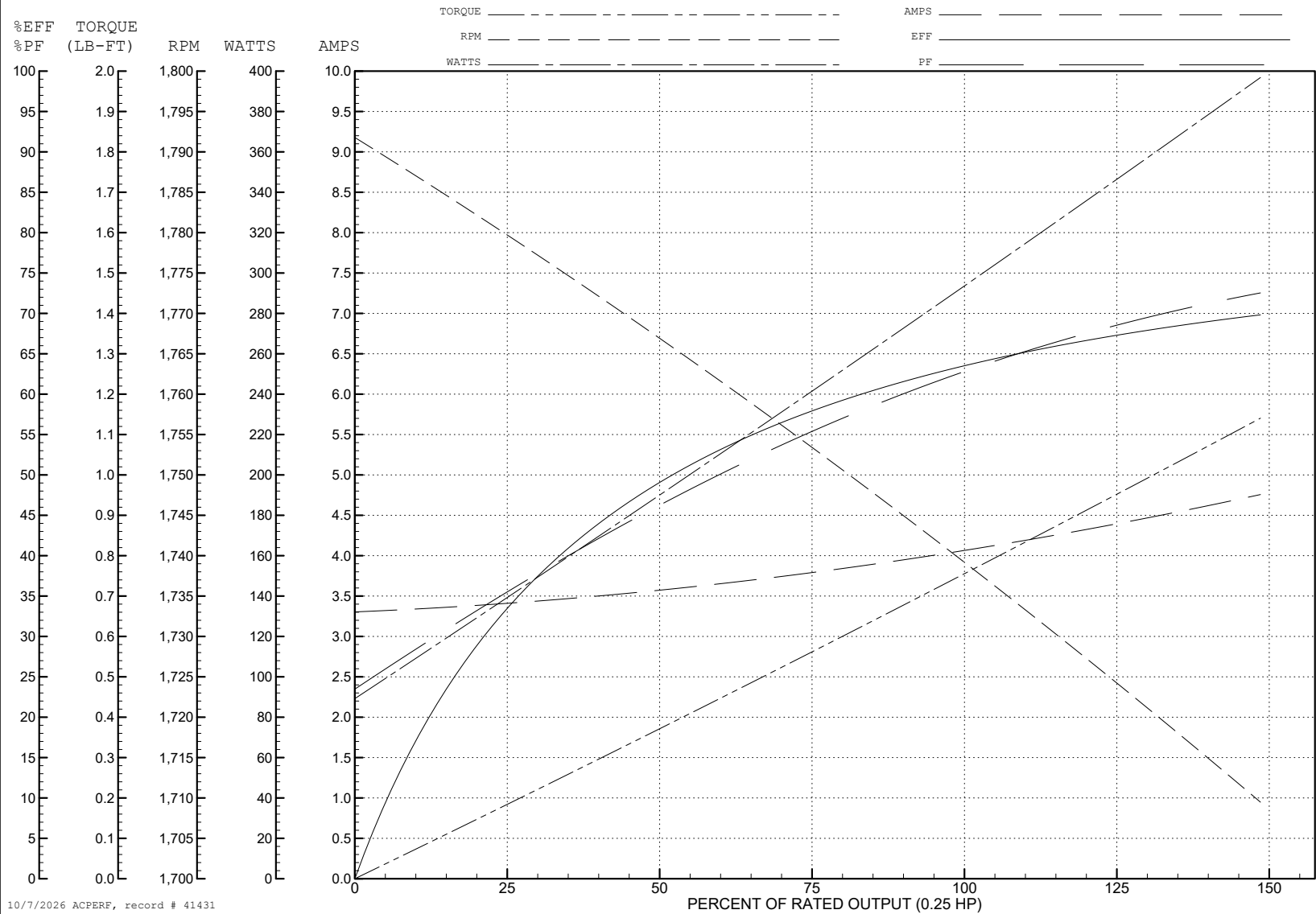
ABB Motors and Mechanical Inc.

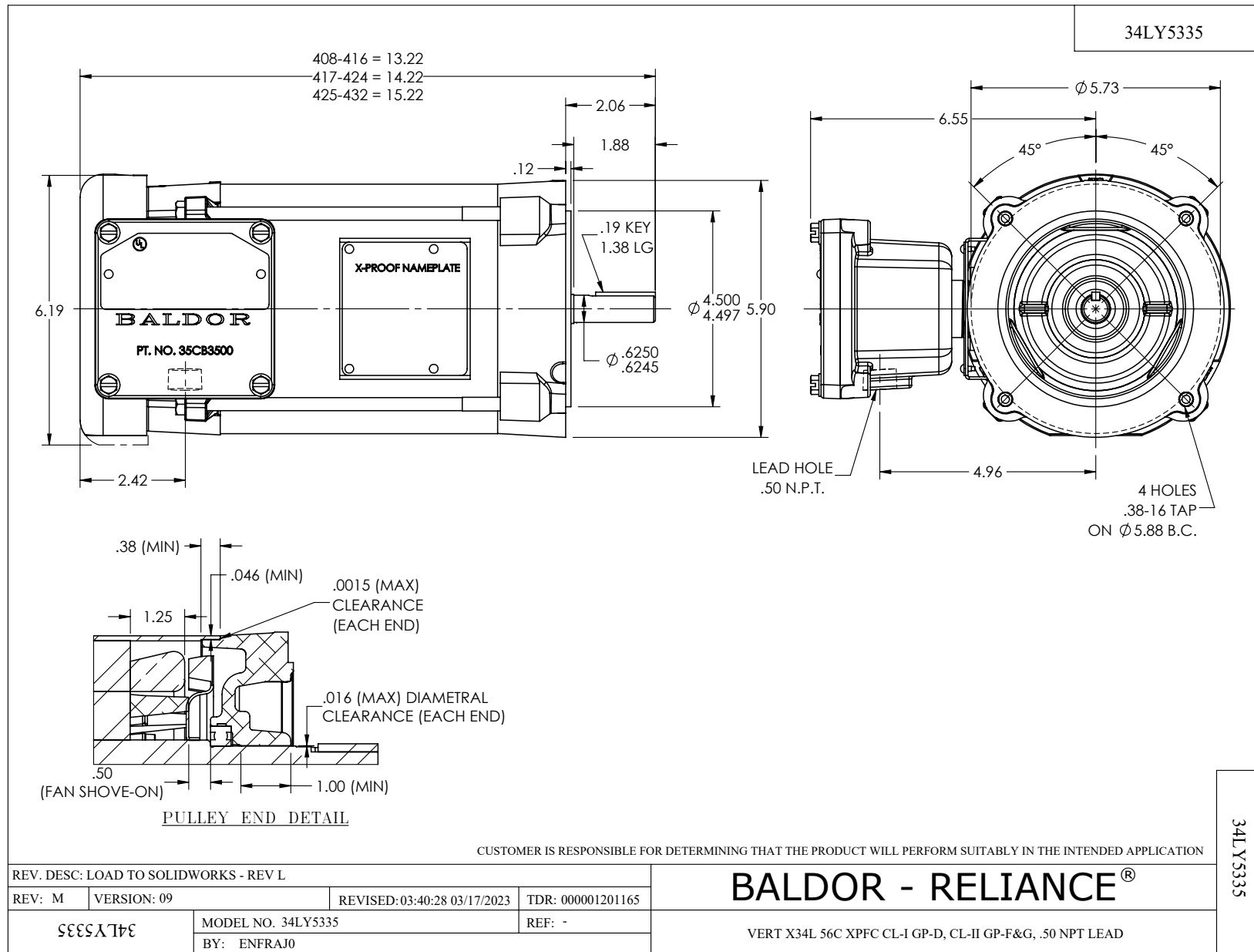
WINDING # 34WGY855

Typical performance - not guaranteed values.

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

TORQUES (LB-FT) : PO=2.38 PU=1.68 LR=2.83 LRA=21.6





CD0565

