

ABB BALDOR RELIANCE III

Customer information packet

CDRXL05144

1HP, 1750RPM, 1PH, 60HZ, 56C, 3528L, XPFC, F1, N

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UL CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.400 A @ 115.0 V 6.200 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	6.2 a

Part Detail

Revision	E
Type	AC
Mech. spec.	35X723
Base	
Status	PRD/A
Elec. spec.	35WGG376
Layout	35LYX723
Eff. date	05-29-2026
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	12-01-2022

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3524L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.16 IN
Power Factor	76
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSL											
NO.							CC				
SER.							TEMP CODE	T3C			
SPEC.	35X723G376G1										
CAT.NO.	CDRXL05144										
HP	1										
VOLTS	115/230										
AMPS	12.5/6.3										
RPM	1750				MOTOR WEIGHT						
HERTZ	60	PH	1	CL	F	DE BRG	6205				
SER.F.	1.00	DES	L	CODE	L	ODE BRG	6203				
FRAME	56C	GREASE			POLYREX EM						
RATING	40C AMB-CONT										
						NEMA-NOM-EFF		74	PF	69	

AC Induction Motor Performance Data

Record # 92086

Typical performance - not guaranteed values

Winding: 35WGG376-R004				Type: 3528L		Enclosure: XPFC	
Nameplate Data				115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1		Full Load Torque		3.01 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		12.5/6.3		Breakdown Torque		9.7 LB-FT	
R.P.M.		1750		Pull-up Torque		7.8 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		13.9 LB-FT	
NEMA Design Code		L	KVA Code	L	Starting Current		85.3 A
Service Factor (S.F.)		1		No-load Current		9.53 A	
NEMA Nom. Eff.	74	Power Factor	69	Line-line Res. @ 25°C		0.525 Ω A Ph 1.17 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		62°C	
				Locked-rotor Power Factor		94.8	
				Rotor inertia		0.203 lb-ft²	

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	48	60	69	76	80
Efficiency	53.5	67.3	72.9	74.9	74.6	72.8
Speed	1786	1775	1763	1750	1735	1714
Line amperes	9.3	9.98	11.06	12.51	14.28	16.82

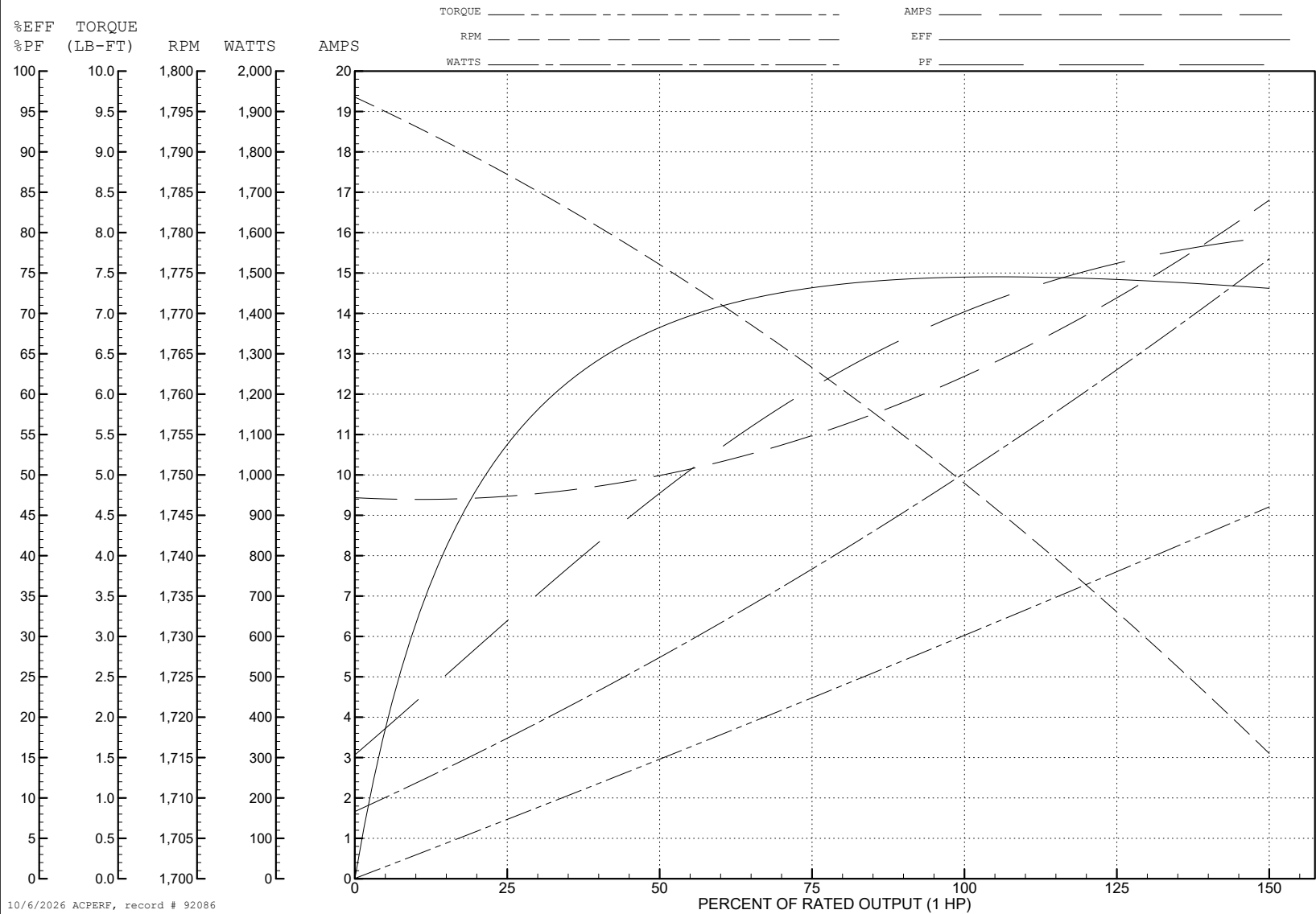
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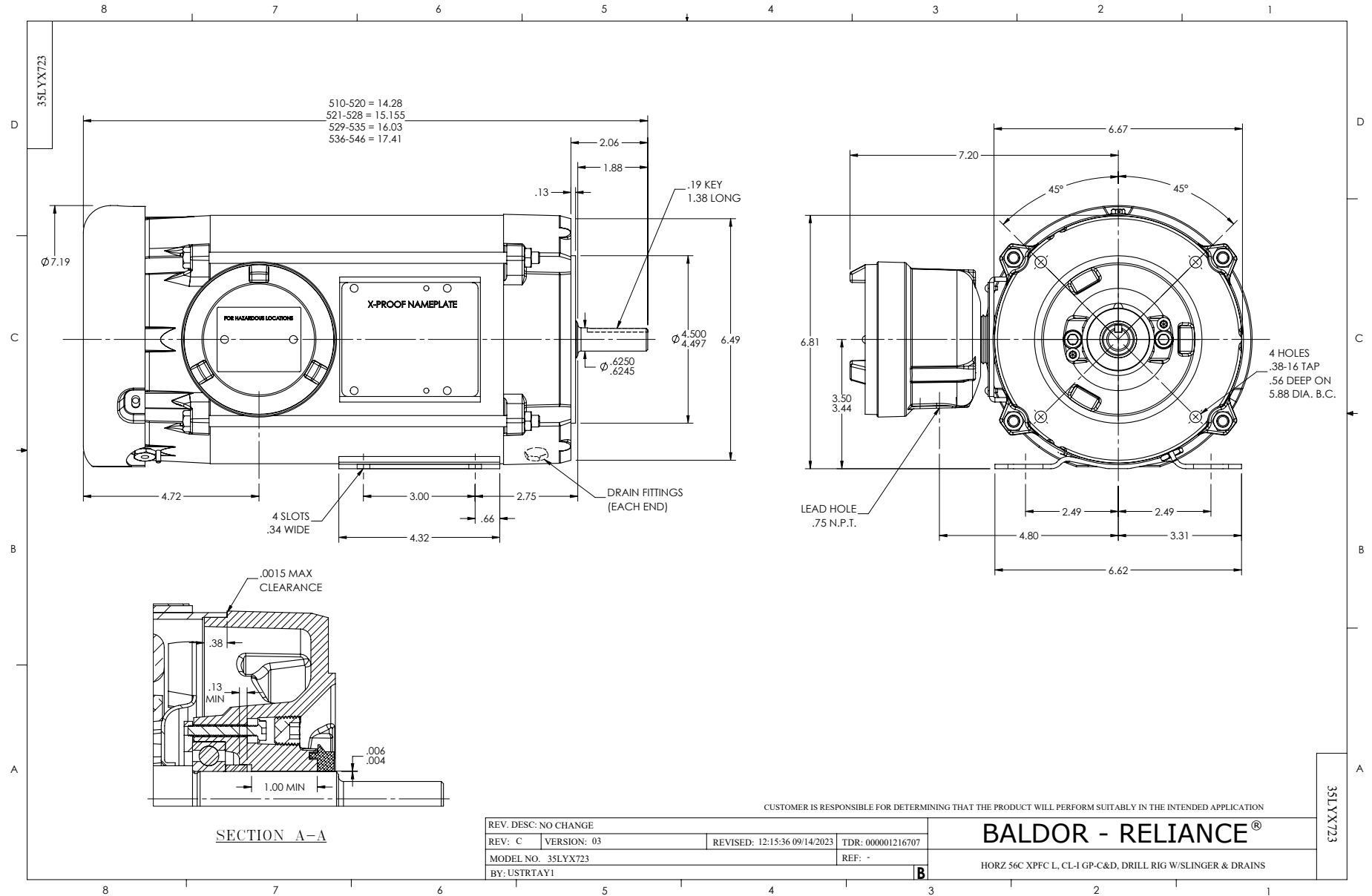
WINDING # 35WGG376

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1750 RPM 115 V 3528L

TORQUES (LB-FT): PO=9.7 PU=7.8 LR=13.9 LRA=85.3





CD0001

