

BALDOR • RELIANCE

Customer information packet

CDRXL050544

.5HP, 1740RPM, 1PH, 60HZ, 56C, 3520L, XPFC, F1

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	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	CSA UL
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	7.000 A @ 115.0 V 3.500 A @ 230.0 V 3.450 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part detail

Revision	E
Type	AC
Mech. spec.	35X723
Base	
Status	PRD/A
Elec. spec.	35WGG470
Layout	35LYX723
Eff. date	08-15-2024
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
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	X3520L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.31 IN
Power Factor	70
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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.	35X723G470									
CAT.NO.	CDRXL050544									
HP	.5									
VOLTS	115/208-230									
AMPS	7/3.45-3.5									
RPM	1740							MOTOR WEIGHT	43	
HERTZ	60	PH	1	CL	F	DE BRG	6205			
SER.F.	1.15	DES	N	CODE	L	ODE BRG	6203			
FRAME	56C	GREASE	POLYREX EM							
RATING	40C AMB-CONT									
	NEMA-NOM-EFF							66	PF	70
	NEMA MG-1 PT 5,IP55									

AC Induction Motor Performance Data

Record # 94793

Typical performance - not guaranteed values

Winding: 35WGG470-R004		Type: 3520L		Enclosure: XPFC			
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)	.5	Full Load Torque	1.511 LB-FT				
Volts	115/208-230	Start Configuration	direct on line				
Full Load Amps	7/3.45-3.5	Breakdown Torque	4.22 LB-FT				
R.P.M.	1740	Pull-up Torque	3.95 LB-FT				
Hz	60 Phase	1	Locked-rotor Torque	6.21 LB-FT			
NEMA Design Code	N	KVA Code	L	Starting Current	43.3 A		
Service Factor (S.F.)	1.15	No-load Current	5.29 A				
NEMA Nom. Eff.	66	Power Factor	70	Line-line Res. @ 25°C	1.3669 Ω A Ph 2.3003 Ω B Ph		
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load			62°C	
S.F. Amps	8/3.8-4	Temp. Rise @ S.F. Load			72°C		
			Locked-rotor Power Factor			98.3	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	49	61	70	77	82	74
Efficiency	42.8	57.5	63.6	65.7	65.6	63.7	65.6
Speed	1781.1	1768.1	1752.9	1735.9	1715.7	1690.5	1724
Line amperes	5.38	5.7	6.26	7.01	8.01	9.26	7.61

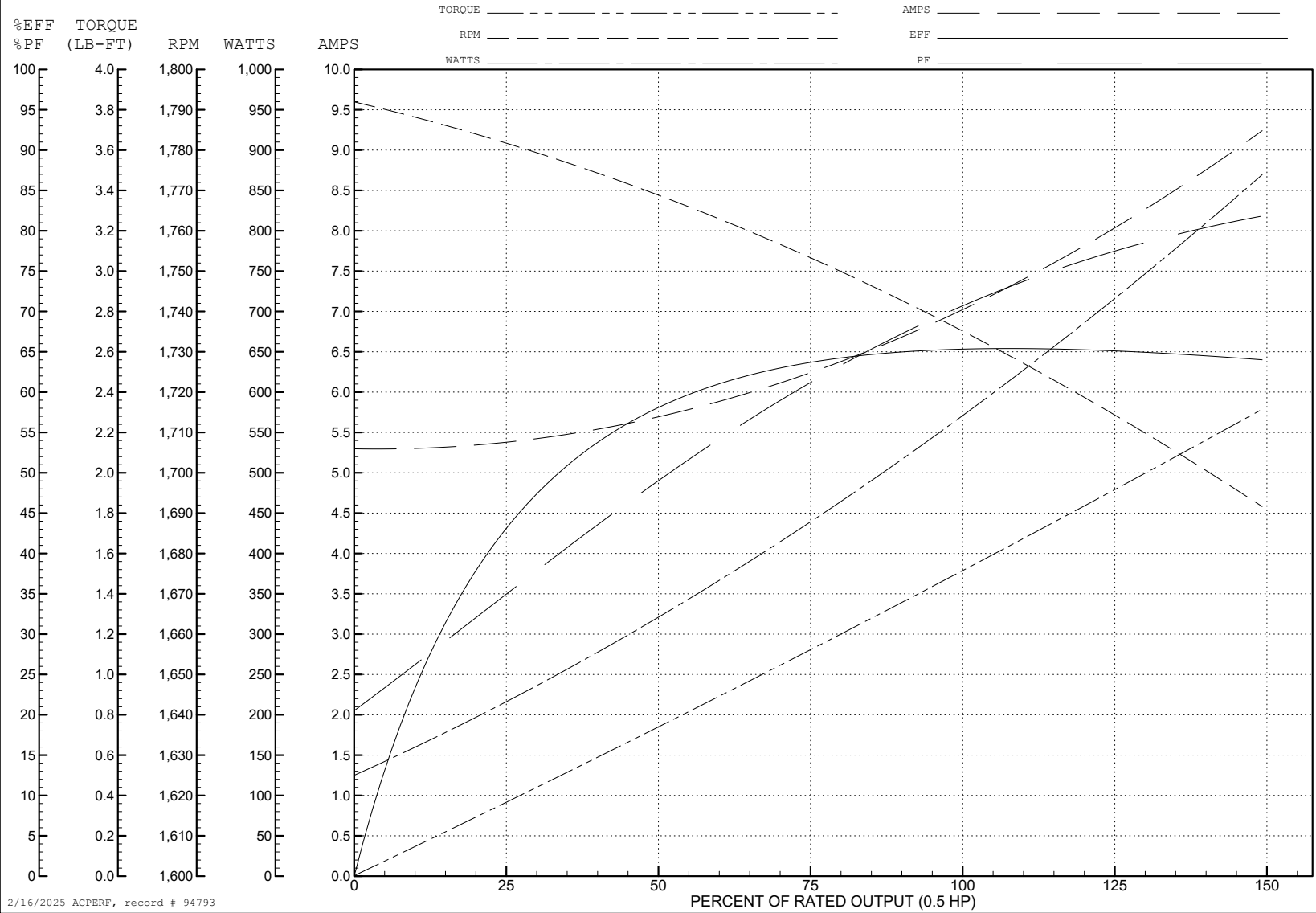
ABB Motors and Mechanical Inc.

WINDING # 35WGG470

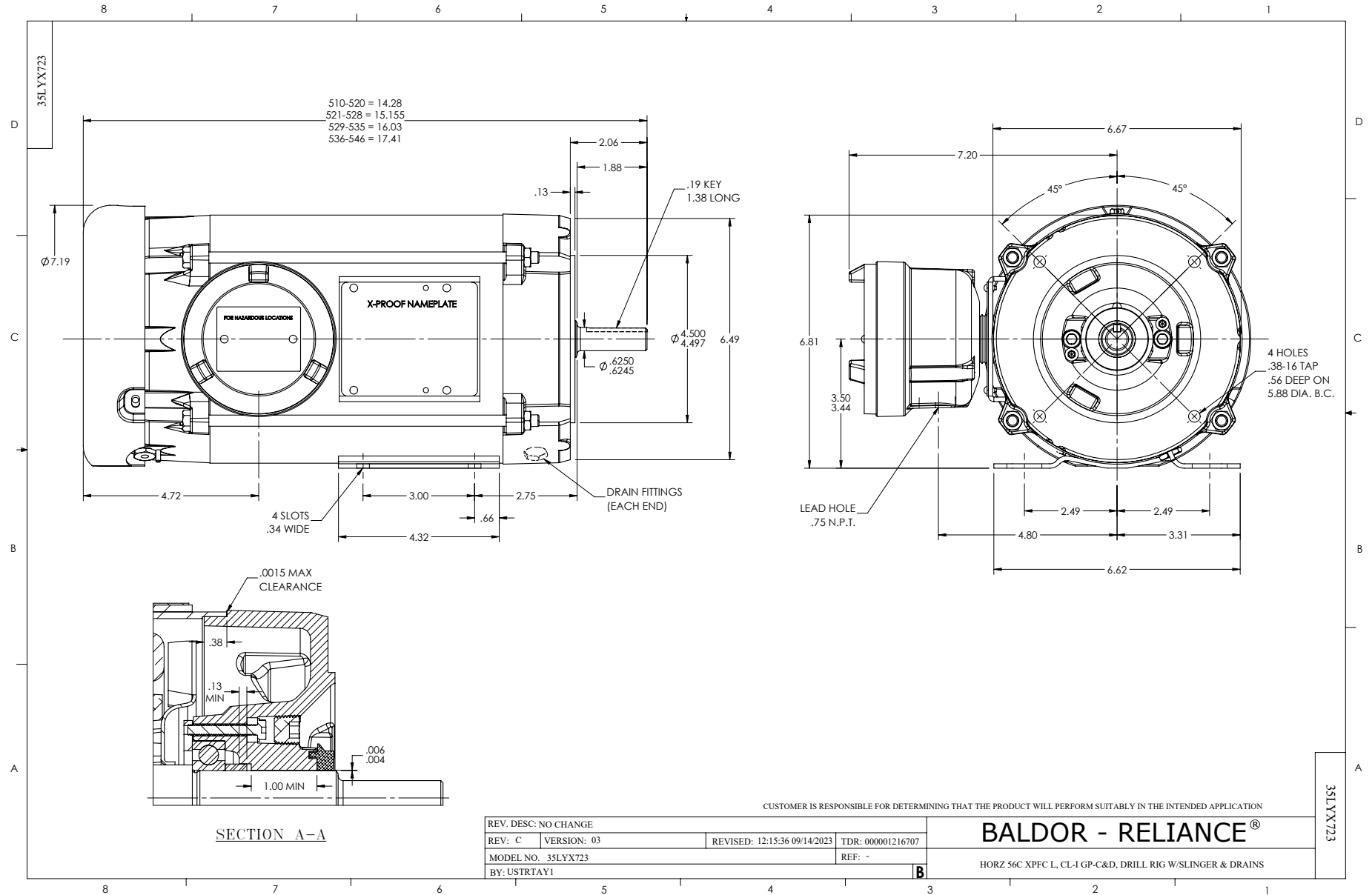
Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1740 RPM 115 V 3520L

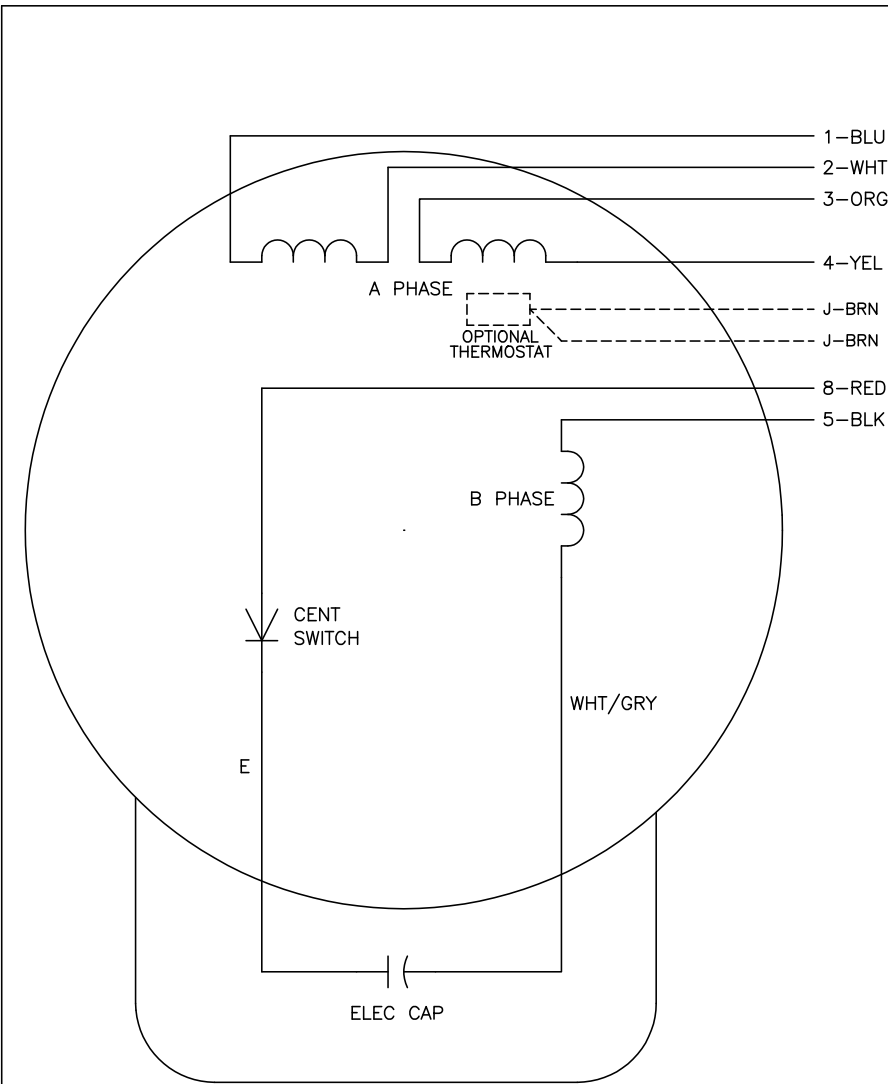
TORQUES (LB-FT): PO=4.22 PU=3.95 LR=6.21 LRA=43.3



2/16/2025 ACPERF, record # 94793



CD0001



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	-
LOW OPP	1,3,5	2,4,8	-

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
100000		FILE: AAA00007405	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

TYPE L, DV, REV, 6 LEADS

CD0001