

ABB BALDOR RELIANCE III

Customer information packet

CL5004-I

.5HP, 1725RPM, 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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	7.400 A @ 115.0 V 3.700 A @ 230.0 V 3.500 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	P
Type	AC
Mech. spec.	35X723
Base	
Status	NLA/A
Elec. spec.	35WGN406
Layout	35LYX723
Eff. date	01-18-2023
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	09-17-2012

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3520L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.31 IN
Power Factor	65
Product Family	General Purpose
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 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	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.	35X723N406G1										
CAT.NO.	CL5004-I										
HP	.5										
VOLTS	115/208-230										
AMPS	7.4/3.5-3.7										
RPM	1725					MOTOR WEIGHT				43	
HERTZ	60	PH	1	CL	F	DE BRG	6205				
SER.F.	1.15	DES	N	CODE	M	ODE BRG	6203				
FRAME	56C	GREASE			POLYREX EM						
RATING	40C AMB-CONT										
NEMA-NOM-EFF	68	PF	65								
	NEMA MG-1 PT 5,IP55										

AC Induction Motor Performance Data

Record # 39783

Typical performance - not guaranteed values

Winding: 35WGN406-R002			Type: 3520L		Enclosure: XPFC		
Nameplate Data				230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.5		Full Load Torque		1.51 LB-FT	
Volts		115/208-230		Start Configuration		direct on line	
Full Load Amps		7.4/3.5-3.7		Breakdown Torque		4.62 LB-FT	
R.P.M.		1725		Pull-up Torque		3.69 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		5.49 LB-FT	
NEMA Design Code		N	KVA Code	M		Starting Current	22.6 A
Service Factor (S.F.)		1.15		No-load Current		2.89 A	
NEMA Nom. Eff.		68	Power Factor	65	Line-line Res. @ 25°C		4.0781 Ω A Ph 2.4038 Ω B Ph
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	67°C
S.F. Amps						Temp. Rise @ S.F. Load	75°C

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	46	56	65	71	76	69
Efficiency	41.6	57.1	64.6	68	69	69	68.6
Speed	1783.2	1772	1759.8	1745.9	1730.5	1714.5	1737
Line amperes	2.95	3.09	3.35	3.69	4.1	4.61	3.94

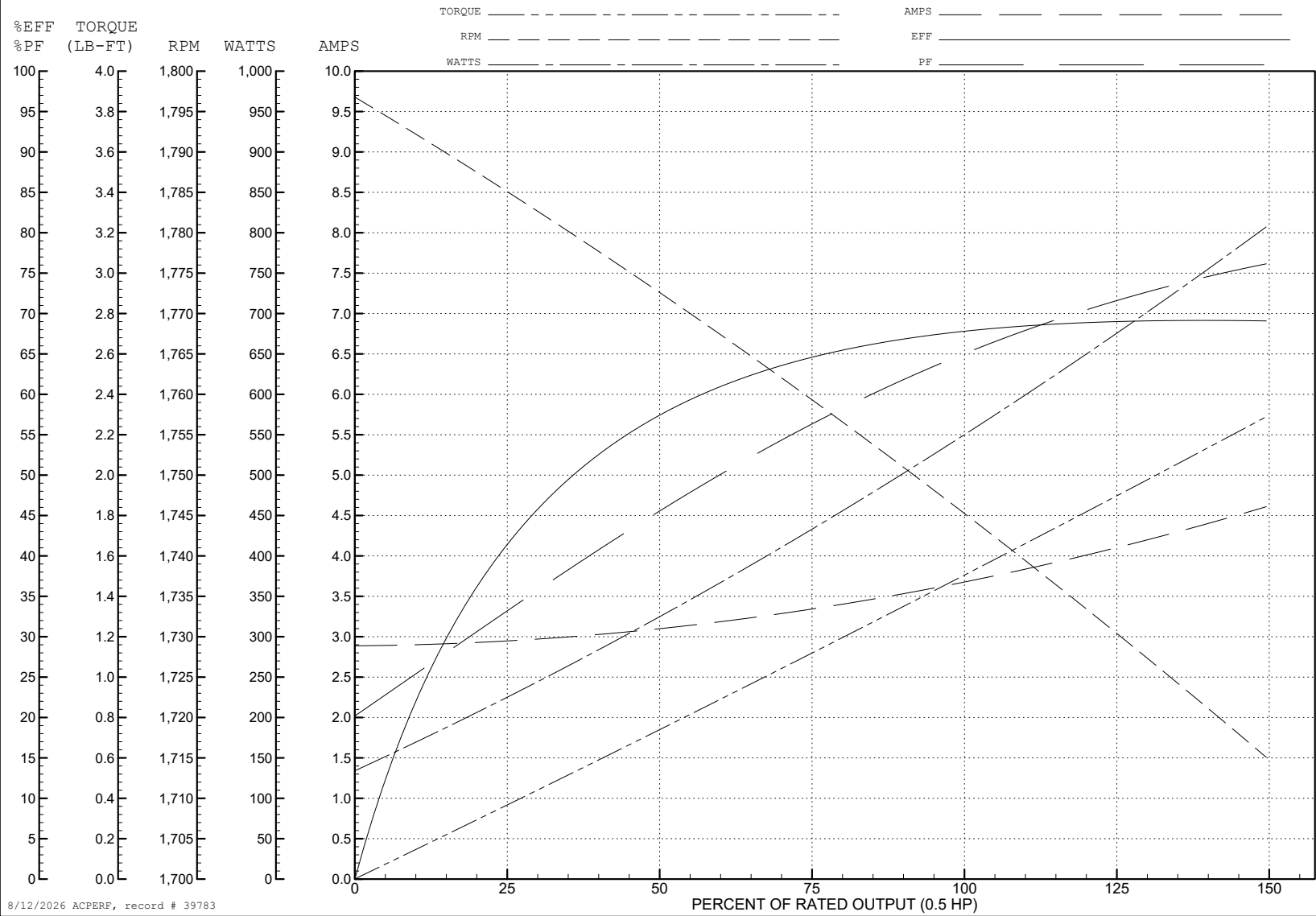
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WINDING # 35WGN406

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1725 RPM 230 V 3520L

TORQUES (LB-FT) : PO=4.62 PU=3.69 LR=5.49 LRA=22.6



AC Induction Motor Performance Data

Record # 44101

Typical performance - not guaranteed values

Winding: 35WGN406-R002			Type: 3520L		Enclosure: XPFC	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		1.51 LB-FT	
Volts		115/208-230	Start Configuration		direct on line	
Full Load Amps		7.4/3.5-3.7	Breakdown Torque		4.62 LB-FT	
R.P.M.		1725	Pull-up Torque		3.69 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		5.49 LB-FT
NEMA Design Code		N	KVA Code		M	
Service Factor (S.F.)		1.15	No-load Current		5.78 A	
NEMA Nom. Eff.		68	Power Factor		65	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		67°C
S.F. Amps				Temp. Rise @ S.F. Load		73°C
				Rotor inertia		0.119 LB-FT2

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	46	56	65	72	76	69
Efficiency	41.5	57.1	64.8	68	69.2	69	68.7
Speed	1783	1772	1760	1746	1731	1715	1737
Line amperes	5.9	6.18	6.7	7.38	8.2	9.22	7.87

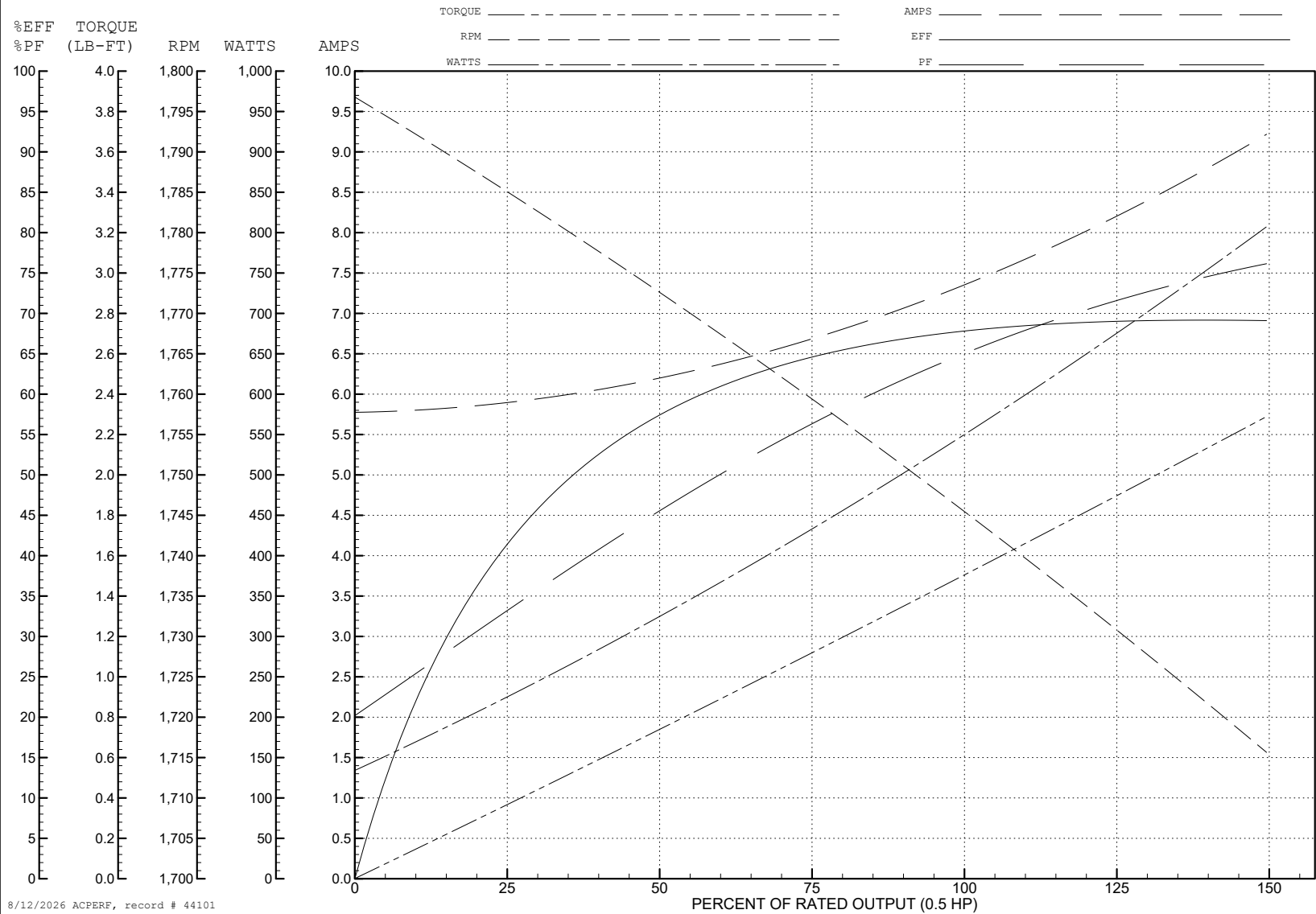
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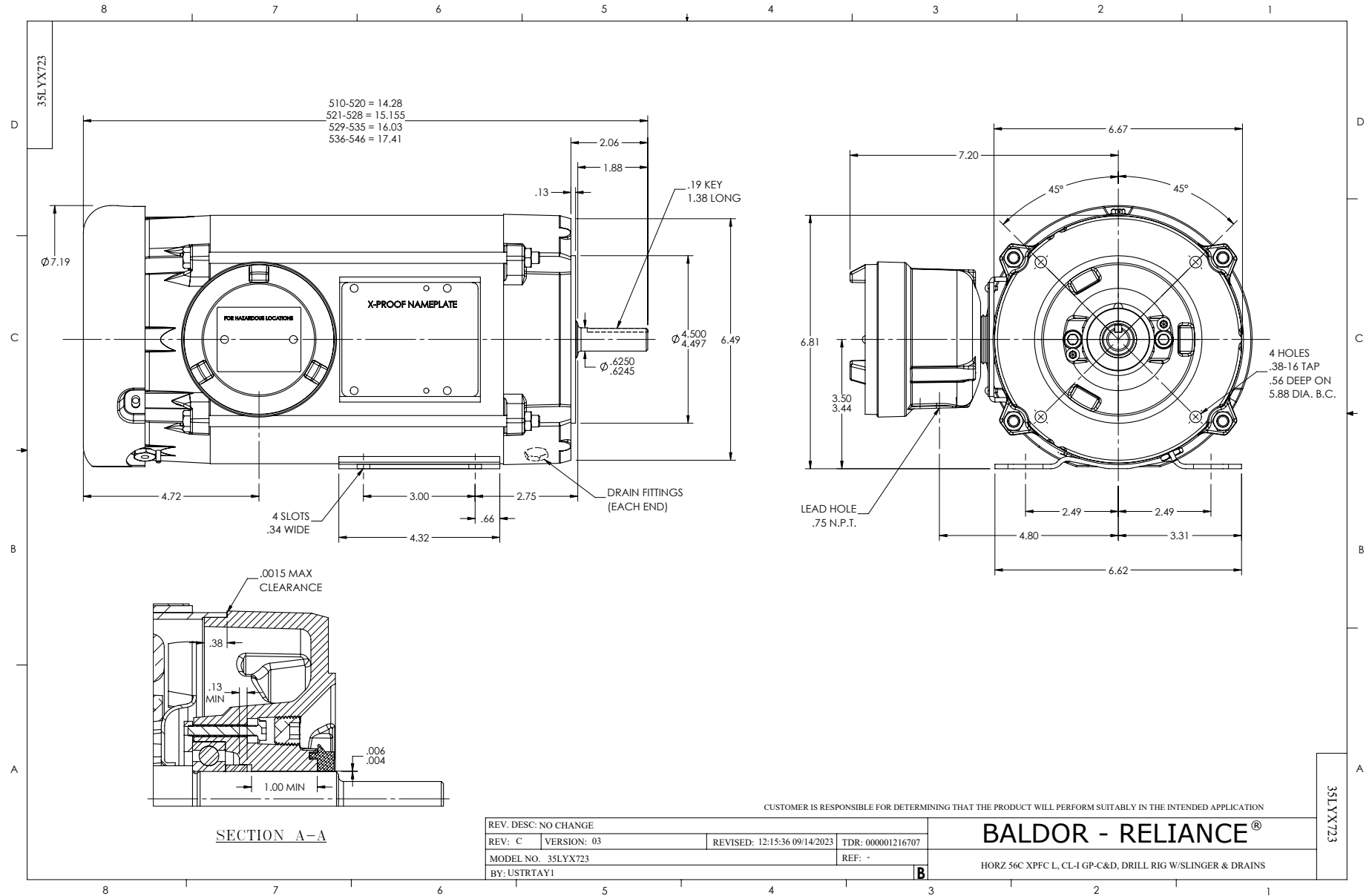
WINDING # 35WGN406

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1725 RPM 115 V 3520L

TORQUES (LB-FT) : PO=4.62 PU=3.69 LR=5.49 LRA=45.2





CD0001

