ABB BALDOR RELIANCE

Customer information packet

JXL05222

2HP, 3450RPM, 1PH, 60HZ, 56J, 3540L, XPFC, F1, N
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56J
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	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 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	10.500 A @ 230.0 V
	11.500 A @ 208.0 V
	21.000 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGA0039
Layout	35LYE790
Eff. date	02-22-2024
CD Diagram	CD0001
Poles	02/02
Leads	4#14 A PHAS,2#18 B PHAS
Proprietary	False
Created date	04-14-2021

High Voltage Full Load Amps	10.5 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.94 IN
Power Factor	77
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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

NP1426XPSL							
NO.		**CC**					
SER.							
SPEC.	35-0000-1104						
CAT.NO.	JXL05222						
HP	2	**T. CODE**	T3C				
VOLTS	115/208-230						
AMPS	21/11.5-10.5						
RPM	3450						
HZ	60	**PH**	1	**CL**	F		
SER.F.	1.15	**DES**	L	**CODE**	J		
RATING	40C AMB-CONT						
FRAME	56J	**NEMA-NOM-EFF**	75.5				
	PF	77					
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 23177
Typical performance - not guaranteed values

Winding: 35WGR422-R001	**Type:** 3540L	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			22/11.5-11	**Breakdown Torque**	10.2 LB-FT
R.P.M.			3450	**Pull-up Torque**	3.28 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	5.58 LB-FT
NEMA Design Code	L	**KVA Code**	L	**Starting Current**	77.3 A
Service Factor (S.F.)			1.15	**No-load Current**	6.3 A
NEMA Nom. Eff.	75.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	0.76 Ω A Ph 1.28 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	58	70	77	81	84	79
Efficiency	59.1	70.6	74.3	76.2	76.3	74.8	76.3
Speed	3570	3550	3528	3504	3476	3444	3487
Line amperes	6.9	8	9.4	11.1	13	15.2	12.24

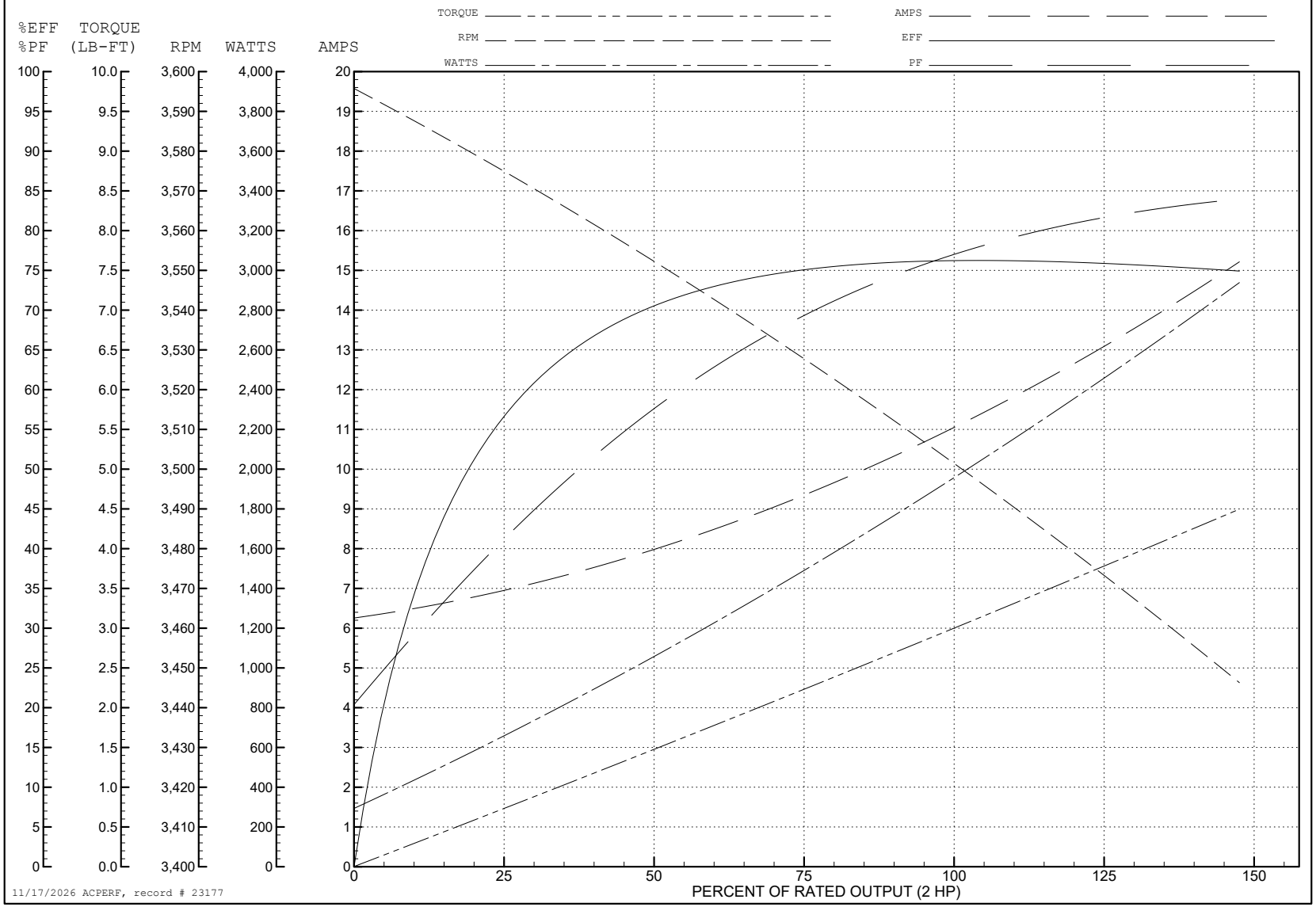
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WINDING # 35WGR422

2 HP 1 PH 60 HZ 3450 RPM 230 V 3540L

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=10.2 PU=3.28 LR=5.58 LRA=77.3



AC Induction Motor Performance Data
Record # 88045
Typical performance - not guaranteed values

Winding: 35WGA0039-R001	**Type:** 3540L	**Enclosure:** XPFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3.01 LB-FT
Volts			115/208-230	**Start Configuration**	Unknown
Full Load Amps			21/11.5-10.5	**Breakdown Torque**	8.8 LB-FT
R.P.M.			3450	**Pull-up Torque**	3 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	6.3 LB-FT
NEMA Design Code	L	**KVA Code**	J	**Starting Current**	131 A
Service Factor (S.F.)			1.15	**No-load Current**	9.68 A
NEMA Nom. Eff.	75.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	0.192 Ω A Ph 1.53 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C
S.F. Amps			23.3/12.9-11.6	**Temp. Rise @ S.F. Load**	69°C
				Locked-rotor Power Factor	68.4
				Rotor inertia	0.111 lb-ft²

Load Characteristics 115 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	64	75	80	83	85	82
Efficiency	64.7	74.6	77.1	78.2	77.6	75.4	77.8
Speed	3568	3545	3520	3492	3459	3421	3472
Line amperes	11.18	13.77	16.94	20.7	24.86	29.71	23.2

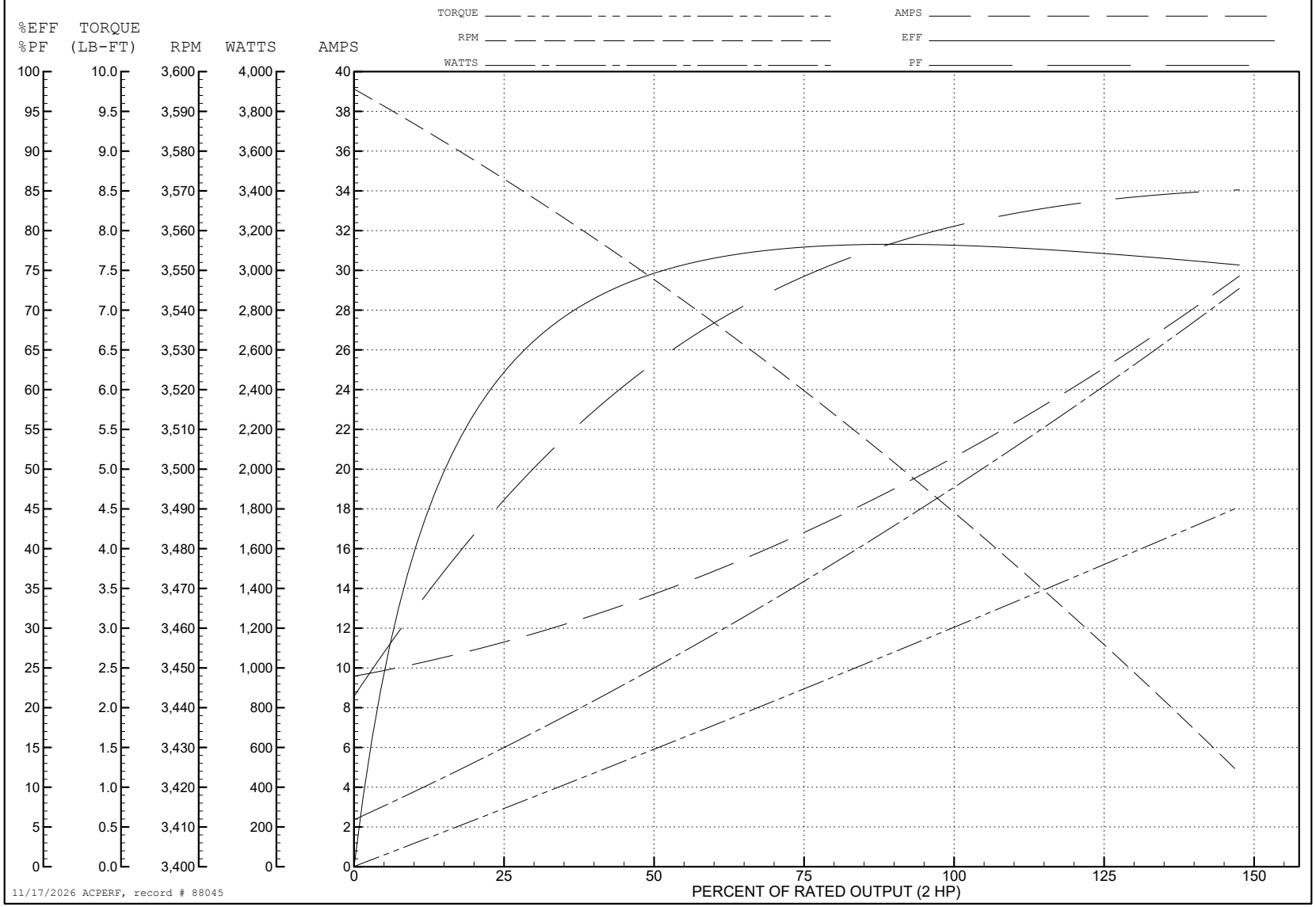
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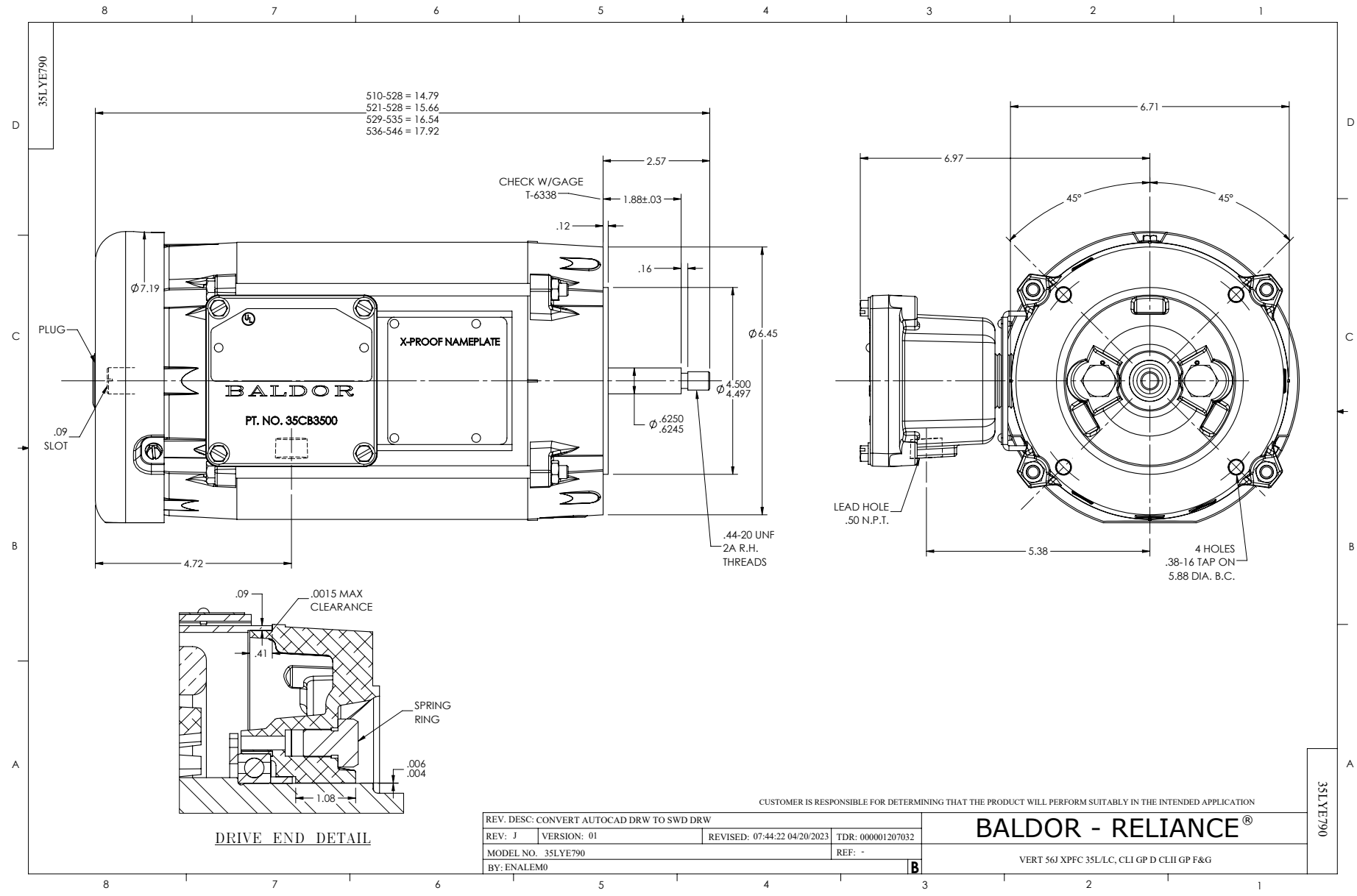
WINDING # 35WGA0039

2 HP 1 PH 60 HZ 3450 RPM 115 V 3540L

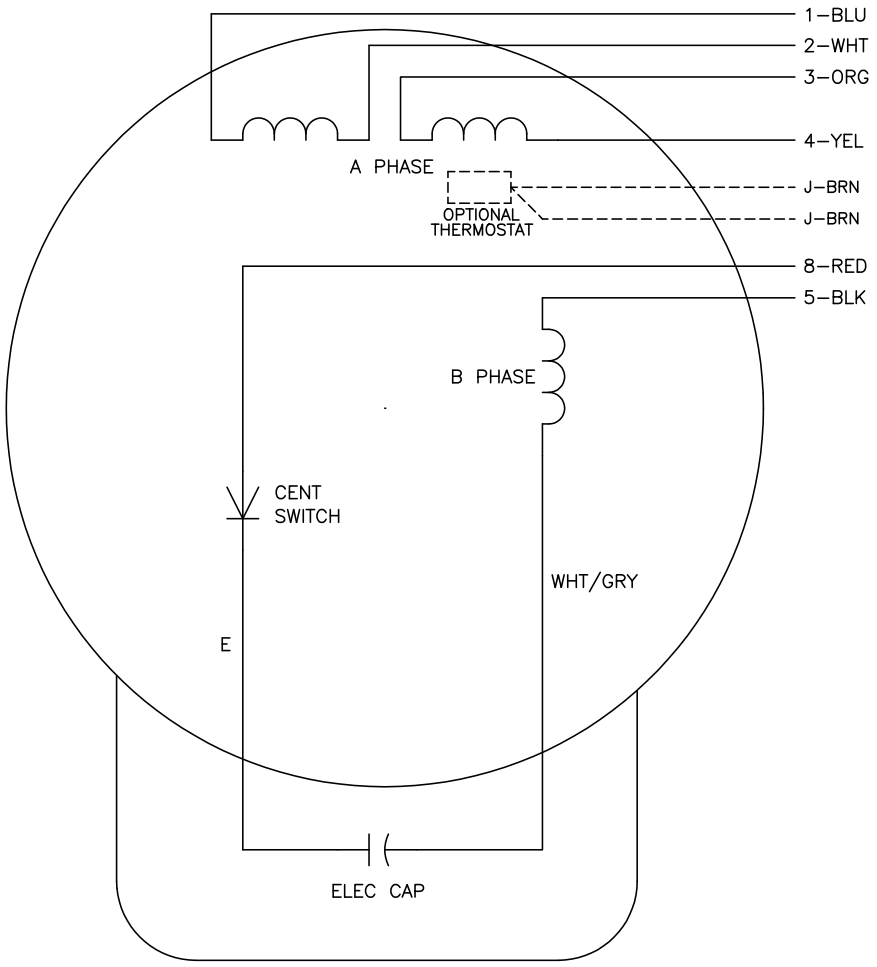
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=8.8 PU=3 LR=6.3 LRA=131




35LYE790
510-528 = 14.79
521-528 = 15.66
529-535 = 16.54
536-546 = 17.92
2.57
CHECK W/GAGE
T-6338
1.88±.03
.12
.16
Ø7.19
PLUG
.09
SLOT
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø6.45
Ø4.500
4.497
Ø.6250
.6245
.44-20 UNF
2A R.H.
THREADS
4.72
6.71
6.97
45°
45°
LEAD HOLE
.50 N.P.T.
5.38
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
.09
.0015 MAX
CLEARANCE
.41
SPRING
RING
.006
.004
1.08
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: J
VERSION: 01
REVISED: 07:44:22 04/20/2023
TDR: 000001207032
MODEL NO. 35LYE790
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 56J XPFC 35L/LC, CLI GP D CLII GP F&G
35LYE790

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.

CD0001

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS