ABB BALDOR RELIANCE

Customer information packet

L5022

.75HP, 1140RPM, 1PH, 60HZ, 56, 3540L, XPFC, F1
Class - CLI GP D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 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	5.700 A @ 208.0 V
	5.400 A @ 230.0 V
	10.800 A @ 115.0 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 Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	35E351
Base	
Status	NLA/A
Elec. spec.	35WGN636
Layout	35LYE351
Eff. date	01-18-2023
CD Diagram	CD0001
Poles	06
Leads	6#18
Proprietary	False
Created date	11-30-2012

Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.4 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3540L
Mounting Arrangement	F1
Number of Poles	6
Overall Length	17.42 IN
Power Factor	65
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	1140 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

NP0015XPSL					
NO.		**CC**			
SER. #					
SPEC	35E351N636G1				
CAT.NO.	L5022				
H.P.	.75	**T. CODE**	T2C		
VOLTS	115/208-230				
AMPS	10.8/5.7-5.4				
R.P.M.	1140				
HZ	60	**PH**	1	**CLASS**	B
SER.F.	1.00	**DES**	L	**CODE**	K
RATING	40C AMB-CONT				
FRAME	56	**NEMA NOM. EFF**			68
PF	65				
BLANK					

AC Induction Motor Performance Data
Record # 40729
Typical performance - not guaranteed values

Winding: 35WGN636-R001	**Type:** 3540L	**Enclosure:** XPFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	3.42 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			10.8/5.7-5.4	**Breakdown Torque**	7.63 LB-FT
R.P.M.			1140	**Pull-up Torque**	6.93 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	8.78 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	28.3 A
Service Factor (S.F.)			1	**No-load Current**	3.81 A
NEMA Nom. Eff.	68	**Power Factor**	65	**Line-line Res. @ 25ºC**	2.879 Ω A Ph 2.6174 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	31	46	57	65	71	76
Efficiency	49.5	62.8	67.8	68.7	67.2	63.4
Speed	1187.4	1177.7	1166.1	1152.9	1137.5	1114.3
Line amperes	3.94	4.24	4.73	5.42	6.32	7.57

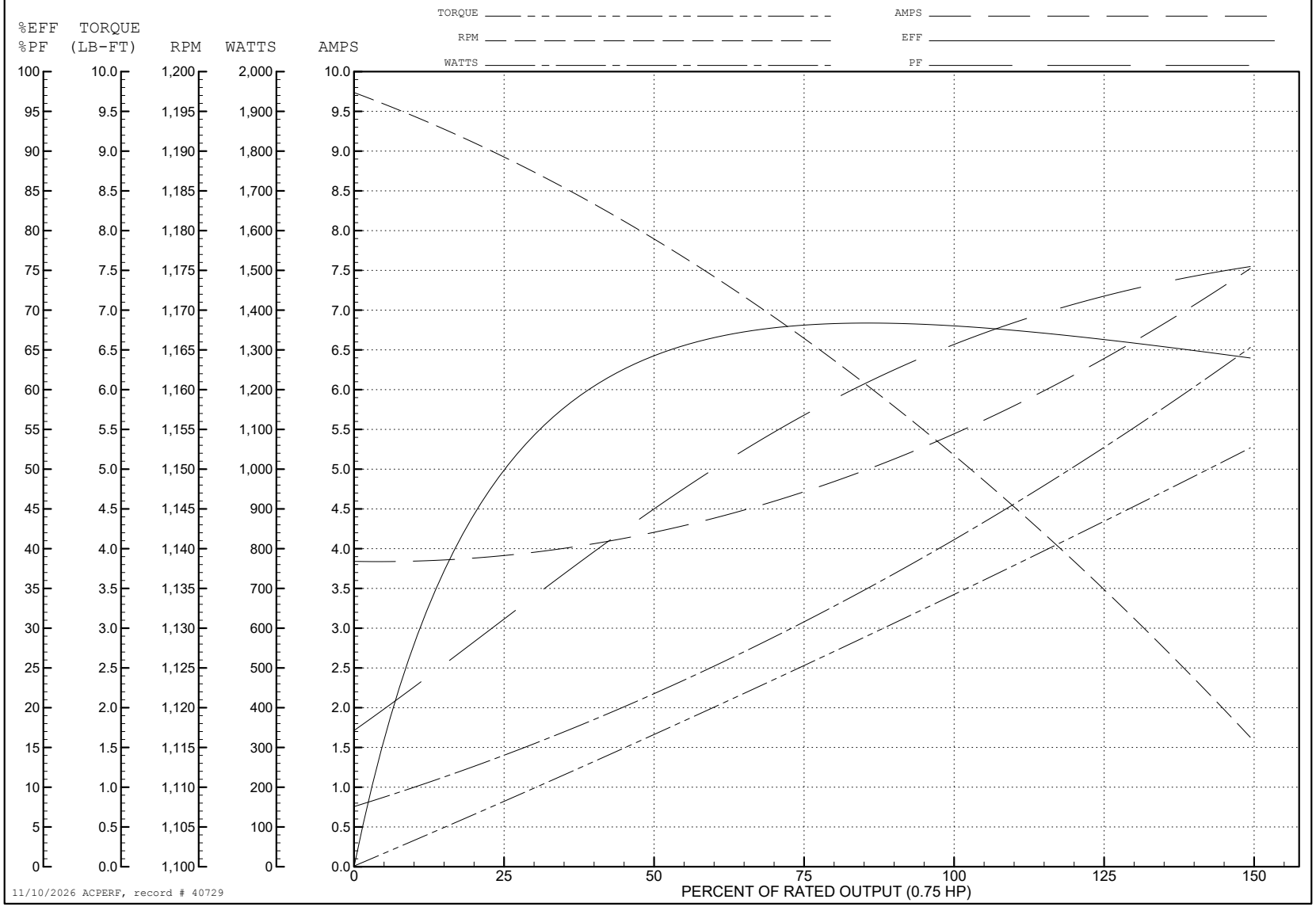
ABB Motors and Mechanical Inc.

WINDING # 35WGN636

0.75 HP 1 PH 60 HZ 1140 RPM 230 V 3540L

TORQUES(LB-FT): PO=7.63 PU=6.93 LR=8.78 LRA=28.3

Typical performance - not guaranteed values.



11/10/2026 ACPERF, record # 40729

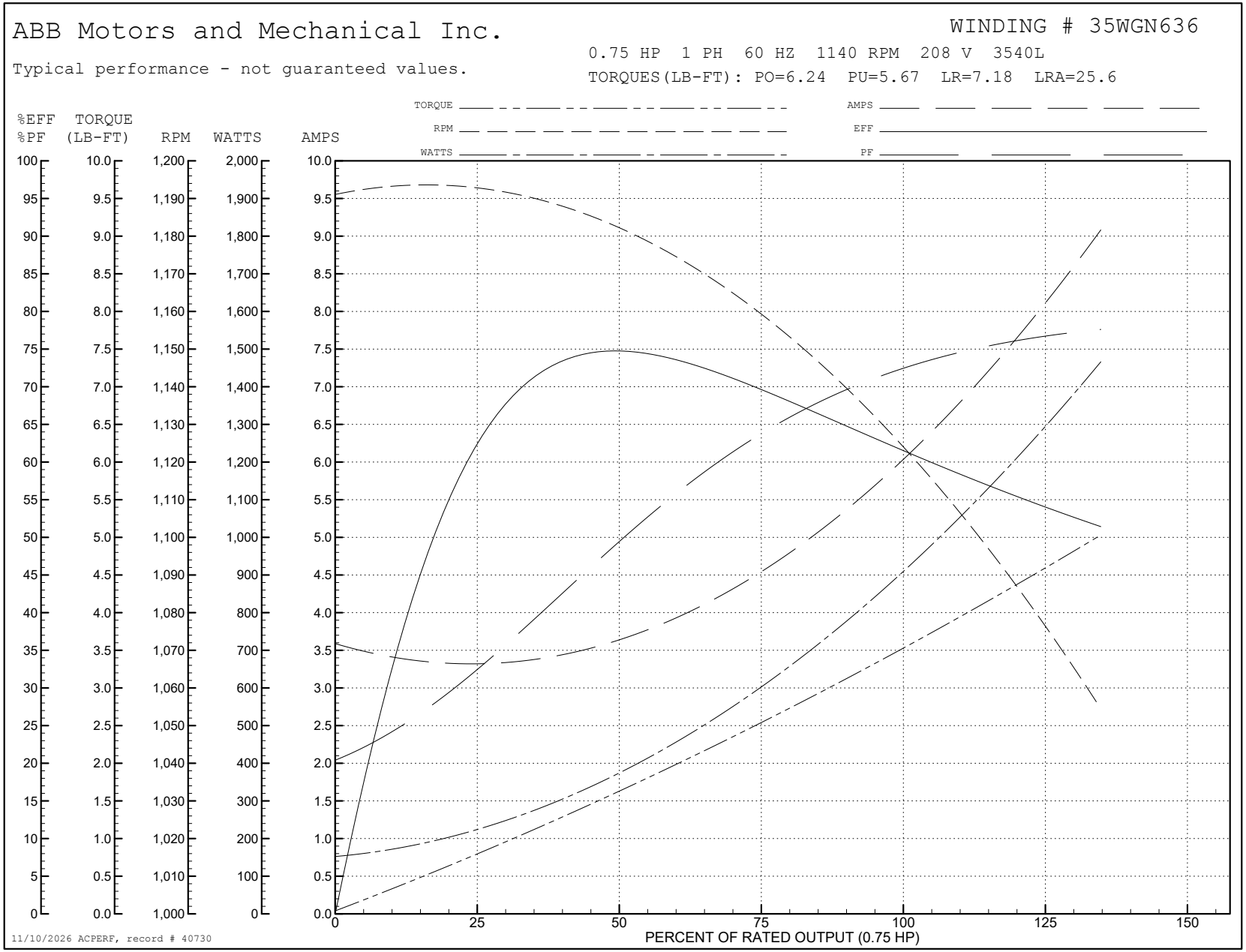
AC Induction Motor Performance Data
Record # 40730
Typical performance - not guaranteed values

Winding: 35WGN636-R001	**Type:** 3540L	**Enclosure:** XPFC

Nameplate Data				**208 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	3.48 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			10.8/5.7-5.4	**Breakdown Torque**	6.24 LB-FT
R.P.M.			1140	**Pull-up Torque**	5.67 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	7.18 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	25.6 A
Service Factor (S.F.)			1	**No-load Current**	3.35 A
NEMA Nom. Eff.	68	**Power Factor**	65	**Line-line Res. @ 25ºC**	2.879 Ω A Ph 2.6174 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C

Load Characteristics 208 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	52	64	72	77	78
Efficiency	53.2	65.7	68	66	60	46.9
Speed	1186.1	1172.1	1156.2	1136	1099.5	1028.7
Line amperes	3.51	3.96	4.67	5.68	7.32	9.95


ABB Motors and Mechanical Inc.
WINDING # 35WGN636
Typical performance - not guaranteed values.
0.75 HP 1 PH 60 HZ 1140 RPM 208 V 3540L
TORQUES(LB-FT): PO=6.24 PU=5.67 LR=7.18 LRA=25.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/10/2026 ACPERF, record # 40730

AC Induction Motor Performance Data
Record # 53202
Typical performance - not guaranteed values

Winding: 35WGN636-R001	**Type:** 3540L	**Enclosure:** XPFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	3.42 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			10.8/5.7-5.4	**Breakdown Torque**	7.63 LB-FT
R.P.M.			1140	**Pull-up Torque**	6.93 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	8.78 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	56.6 A
Service Factor (S.F.)			1	**No-load Current**	7.62 A
NEMA Nom. Eff.	68	**Power Factor**	65	**Line-line Res. @ 25ºC**	0.711 Ω A Ph 2.67 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
				Locked-rotor Power Factor	88.1
				Rotor inertia	0.237 LB-FT2

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	31	46	57	66	72	76
Efficiency	49.5	63.1	67.6	68.8	67.2	63.5
Speed	1187	1178	1166	1153	1138	1114
Line amperes	7.88	8.48	9.46	10.8	12.6	15.1

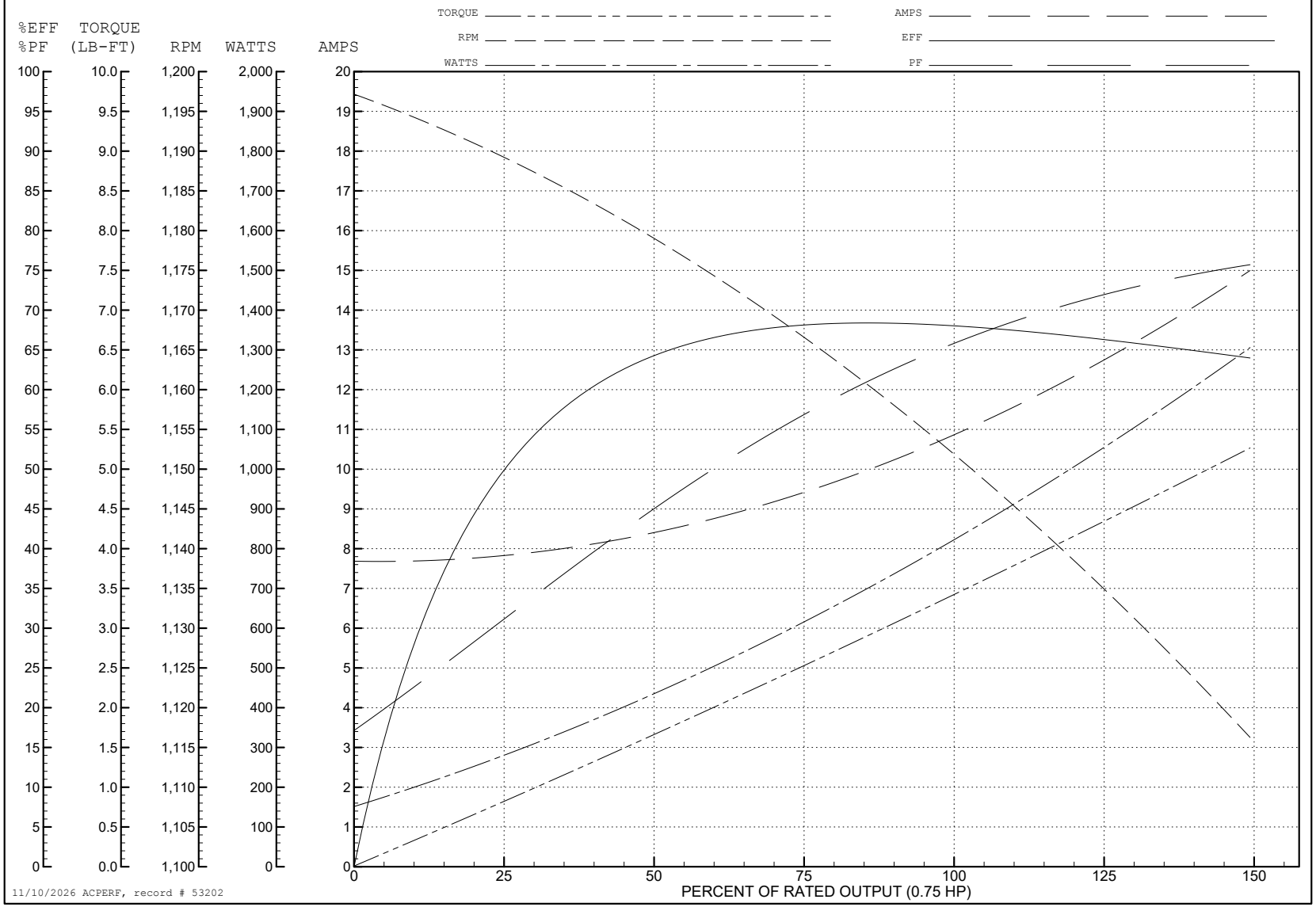
ABB Motors and Mechanical Inc.

WINDING # 35WGN636

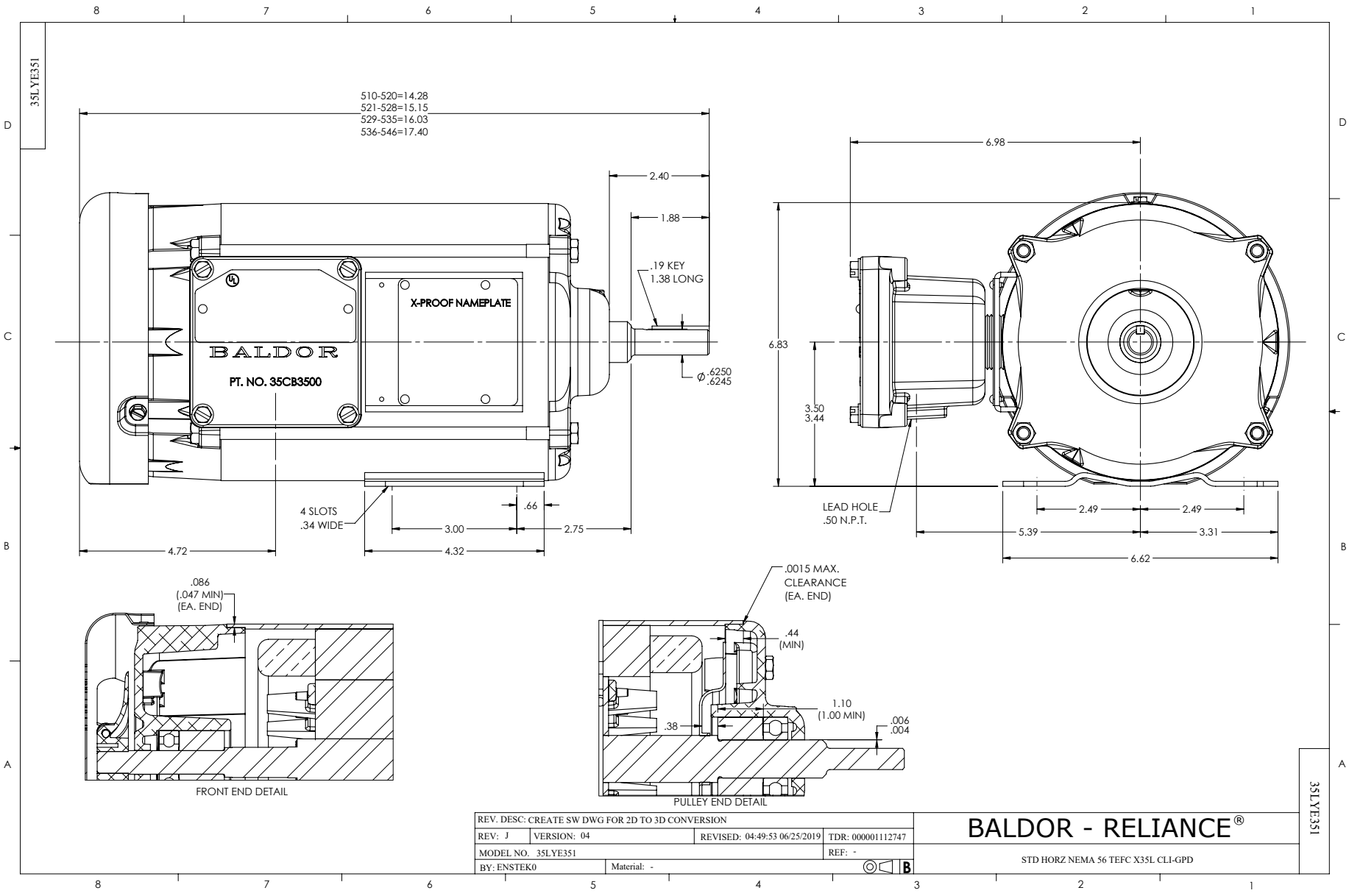
0.75 HP 1 PH 60 HZ 1140 RPM 115 V 3540L

TORQUES(LB-FT): PO=7.63 PU=6.93 LR=8.78 LRA=56.6

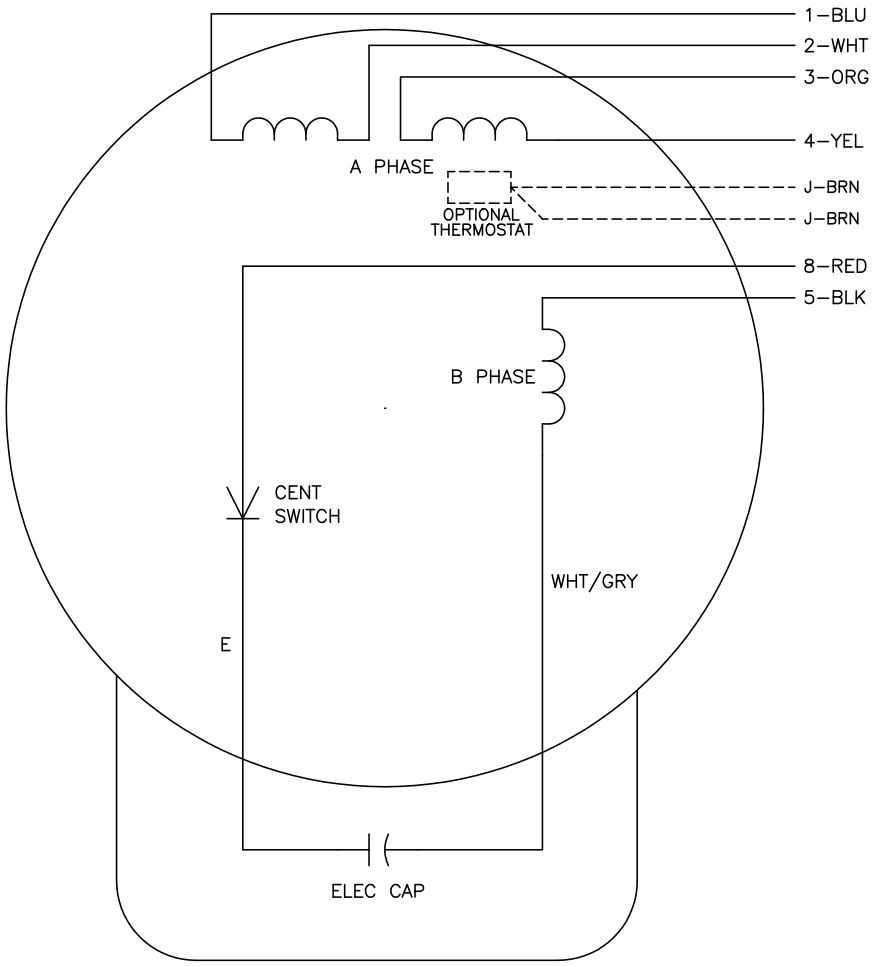
Typical performance - not guaranteed values.



11/10/2026 ACPERF, record # 53202


35LYE351
510-520=14.28
521-528=15.15
529-535=16.03
536-546=17.40
2.40
1.88
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .6250
.6245
4 SLOTS
.34 WIDE
.66
3.00
2.75
4.72
4.32
6.98
6.83
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.49
2.49
5.39
3.31
6.62
.086
(.047 MIN)
(EA. END)
FRONT END DETAIL
.0015 MAX.
CLEARANCE
(EA. END)
.44
(MIN)
1.10
(1.00 MIN)
.38
.006
.004
PULLEY END DETAIL
REV. DESC: CREATE SW DWG FOR 2D TO 3D CONVERSION
REV: J
VERSION: 04
REVISED: 04:49:53 06/25/2019
TDR: 000001112747
MODEL NO. 35LYE351
REF: -
BY: ENSTEK0
Material: -
B
BALDOR - RELIANCE®
STD HORZ NEMA 56 TEFC X35L CLI-GPD
35LYE351

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