

ABB BALDOR RELIANCE III

Customer information packet

CL5007A

.75HP, 1725RPM, 1PH, 60HZ, 56C, X3524L, XPFC

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
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	.750 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	UR 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	10.600 A @ 115.0 V 5.300 A @ 230.0 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 Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T4

Part Detail

Revision	AU
Type	AC
Mech. spec.	35E365
Base	
Status	NLA/A
Elec. spec.	35WG0526
Layout	35LYE365
Eff. date	01-18-2023
CD Diagram	CD0008
Poles	04
Leads	6#18,1#14 #4TH
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	5.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
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	3524L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.17 IN
Power Factor	68
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valid
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP0016XPSL					
NO.		CC			
SER. #					
SPEC	35E365-526				
CAT.NO.	CL5007A				
H.P.	.75	T. CODE	T4		
VOLTS	115/230				
AMPS	10.6/5.3				
R.P.M.	1725				
HZ	60	PH	1	CLASS	B
SER.F.	1.00	DES	N	CODE	L
RATING	40C AMB-CONT				
FRAME	56C	NEMA NOM. EFF			66
PF	68				
BLANK					

AC Induction Motor Performance Data

Record # 20314

Typical performance - not guaranteed values

Winding: 35WG0526-R002			Type: 3524L		Enclosure: XPFC	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.75		Full Load Torque		2.25 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		10.6/5.3		Breakdown Torque		6.5 LB-FT
R.P.M.		1725		Pull-up Torque		5.2 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		7 LB-FT
NEMA Design Code		N	KVA Code	Starting Current		34 A
Service Factor (S.F.)		1		No-load Current		4.4 A
NEMA Nom. Eff.		66	Power Factor	Line-line Res. @ 25°C		2.84 Ω A Ph 1.57 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	45	56	65	72	78	0
Efficiency	42.5	58.2	65.4	68.7	69.9	69.6	0
Speed	1784	1771	1757	1742	1724	1704	0
Line amperes	4.45	4.65	5	5.45	6.05	6.75	6.05

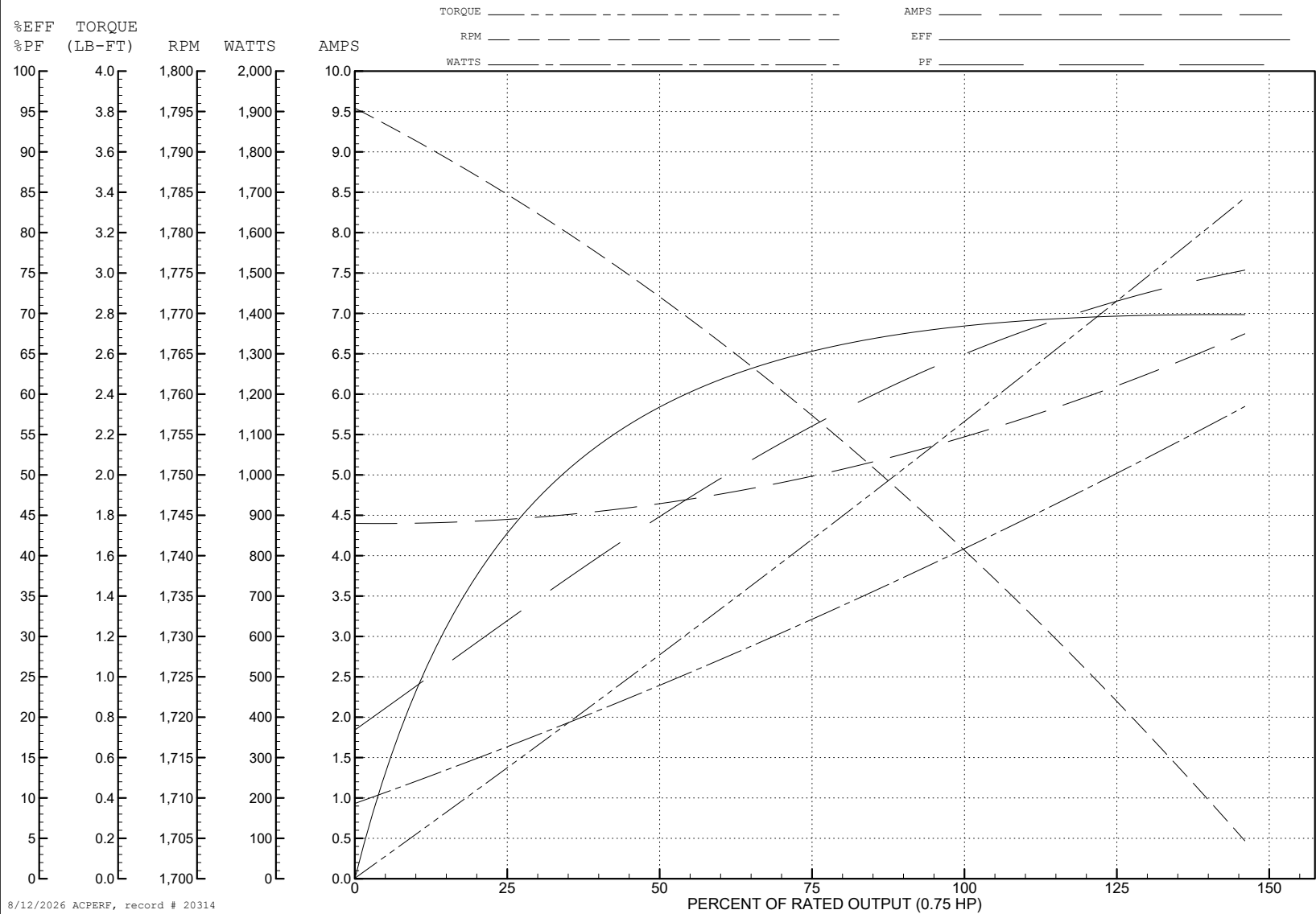
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WINDING # 35WG0526

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1725 RPM 230 V 3524L

TORQUES (LB-FT) : PO=6.5 PU=5.2 LR=7 LRA=34



AC Induction Motor Performance Data

Record # 51898

Typical performance - not guaranteed values

Winding: 35WG0526-R002			Type: 3524L		Enclosure: XPFC	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		10.6/5.3	Breakdown Torque		6.5 LB-FT	
R.P.M.		1725	Pull-up Torque		5.2 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		7 LB-FT	
NEMA Design Code		N KVA Code	Starting Current		68 A	
Service Factor (S.F.)		1	No-load Current		8.8 A	
NEMA Nom. Eff.		66 Power Factor	Line-line Res. @ 25°C		0.712 Ω A Ph 1.5 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		64°C	
S.F. Amps			Temp. Rise @ S.F. Load		76°C	
			Locked-rotor Power Factor		97	
			Rotor inertia		0.142 LB-FT2	

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	45	56	65	71	76
Efficiency	42.6	58.5	65.5	68.8	69.9	69.7
Speed	1784	1771	1757	1742	1724	1704
Line amperes	8.9	9.3	10	10.9	12.1	13.5

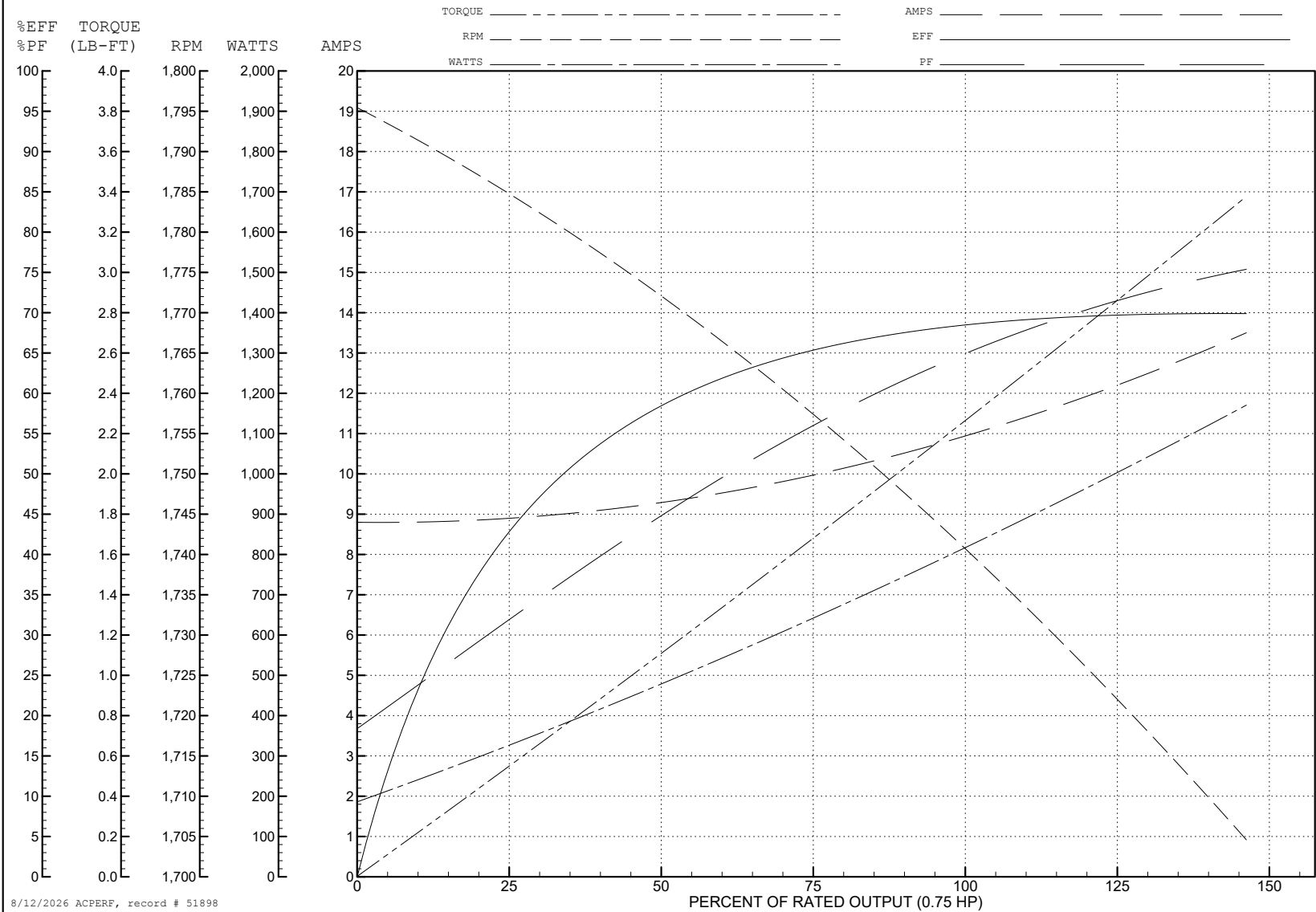
ABB Motors and Mechanical Inc.

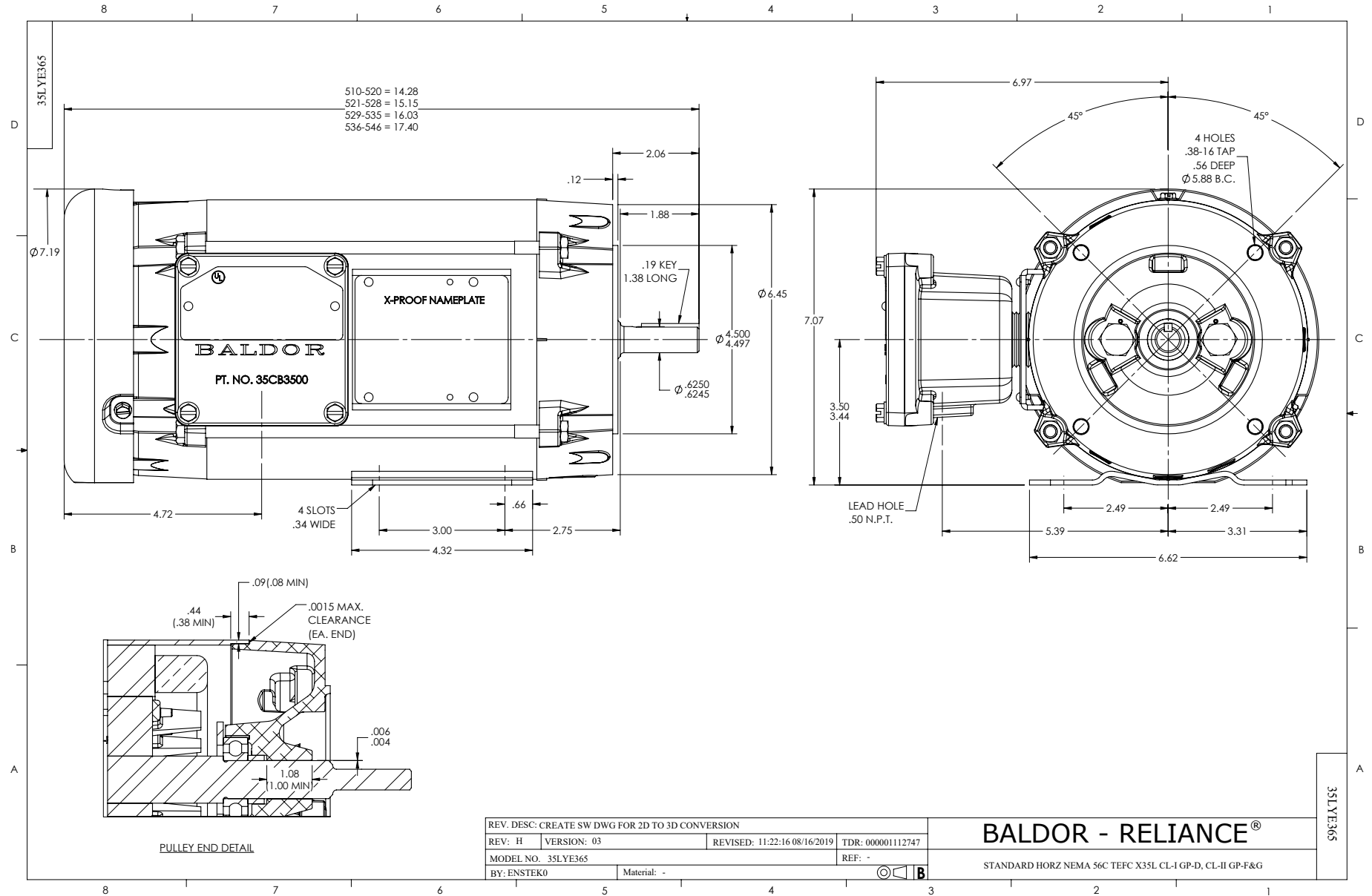
WINDING # 35WG0526

Typical performance - not guaranteed values.

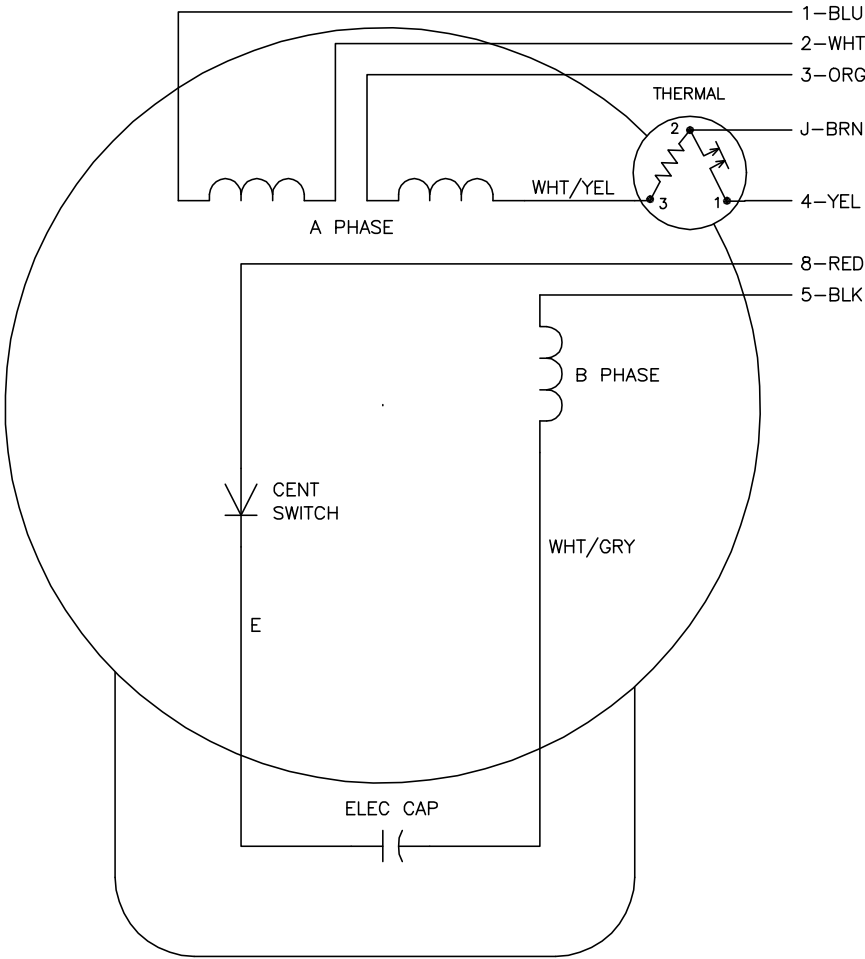
0.75 HP 1 PH 60 HZ 1725 RPM 115 V 3524L

TORQUES (LB-FT) : PO=6.5 PU=5.2 LR=7 LRA=68





CD0008



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

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

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0008A02		
REV. LTR: F	VERSION: 01	TDR: 000000360649
800000	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LEADS

CD0008