

ABB BALDOR RELIANCE III

Customer information packet

380WCT

28L 2/4P POLISHING LATHE MTO

Specifications

Enclosure	TENV
Frame Material	Steel
Frequency	60.00 Hz 60.00 Hz
Motor Letter Type	Cap Start, Induction Run
Nameplate Output	.33/.17
Number of Poles	2 4 2 4
Output @ Frequency	.330 HP @ 60 HZ .170 HP @ 60 HZ
Phase	1 1
Shaft Diameter	0.376 IN 0.376 IN
Speed	1710 rpm 3430 rpm 1710 rpm 3430 rpm
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage	115 V
Voltage @ Frequency	115.0 V @ 60 HZ
Ambient Temperature	40 °C
Base Indicator	Rigid
Current @ Voltage	3.800 A @ 115.0 V
Design Code	-
Duty Rating	CONT
Insulation Class	F
KVA Code	-
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	Other

Part Detail

Revision	F
Type	AC
Mech. spec.	L35-243
Base	
Status	PRD/A
Elec. spec.	L5WG0330
Layout	L5LY0243
Eff. date	02-05-2026
CD Diagram	CD0349
Poles	02/04
Leads	3#18
Proprietary	False
Created date	02-23-2023

Motor Type	3528L
Mounting Arrangement	F1
Overall Length	16.63 IN
Product Family	Dental Lathe
Service Factor	1.00
Shaft Rotation	Fixed Opposite Standard
Speed Code	1Ph 2 Speed Pole Changing
Starting Method	Direct on line
Thermal Device - Winding	None
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP3356L			
CAT.NO.	380WCT		
SPEC.	L35-243G0330		
HP	.33/.17		
VOLTS	115		
PHASE	1	AMPS	3.8/2.4
CYCLE	60		
RPM	3430/1710		
CL	F		
RATING	40C AMB-CONT		
SERIAL			

Accessories

Part number		Description	Multiplier
L3		DR-3545 LH HD WHEEL CHUCK	A8
L4		DR-3547B L4 LH SF WHEEL CHUCK	A8

AC Induction Motor Performance Data

Record # 110511

Typical performance - not guaranteed values

Winding: L5WG0330-R002			Type: L3528L		Enclosure: TENV	
Nameplate Data				115 V, 60 Hz: High Speed Connection		
Rated Output (HP)		.33/.17		Full Load Torque		0.5013 LB-FT
Volts		115		Start Configuration		direct on line
Full Load Amps		3.8/2.4		Breakdown Torque		2.54 LB-FT
R.P.M.		3450/1715		Pull-up Torque		0.75 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		1 LB-FT
NEMA Design Code		- KVA Code		Starting Current		24 A
Service Factor (S.F.)		1		No-load Current		1.51 A
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C	
						2.2367 Ω A Ph 13.494 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		

Load Characteristics 115 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	60	74	83	87	89	90
Efficiency	52	63.4	66.1	65.1	61.5	53.5
Speed	3558.5	3524.3	3480.5	3428.7	3363.6	3226.7
Line amperes	1.82	2.3	2.98	3.77	4.72	6.24

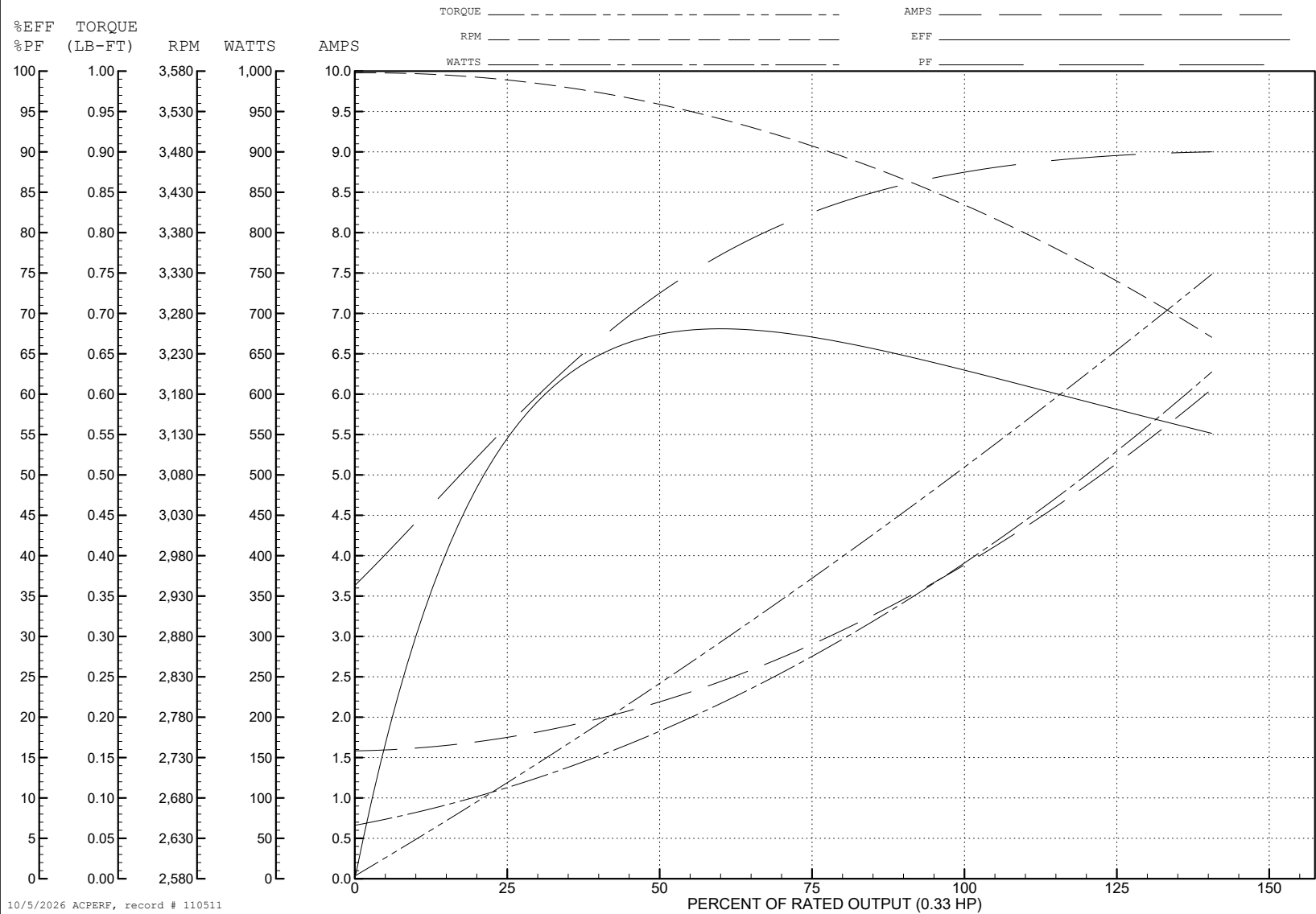
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WINDING # L5WG0330

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 3428.7 RPM 115 V L3528L

TORQUES (LB-FT): PO=2.54 PU=0.75 LR=1 LRA=24



10/5/2026 ACPERF, record # 110511

AC Induction Motor Performance Data

Record # 110512

Typical performance - not guaranteed values

Winding: L5WG0330-R002			Type: L3528L		Enclosure: TENV	
Nameplate Data				115 V, 60 Hz: Low Speed Connection		
Rated Output (HP)		.33/.17		Full Load Torque		0.5177 LB-FT
Volts		115		Start Configuration		direct on line
Full Load Amps		3.8/2.4		Breakdown Torque		1.55 LB-FT
R.P.M.		3430/1710		Pull-up Torque		0.636 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		1.03 LB-FT
NEMA Design Code		- KVA Code		Starting Current		23.5 A
Service Factor (S.F.)		1		No-load Current		1.47 A
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C	
						2.2524 Ω A Ph 13.492 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		

Load Characteristics 115 V, 60 Hz, 0.17 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	42	59	70	78	83	87
Efficiency	42.4	56.2	60.3	60.1	56.7	48.7
Speed	1777.6	1759.6	1738.3	1710.4	1673.8	1603.3
Line amperes	1.53	1.72	1.99	2.35	2.84	3.64

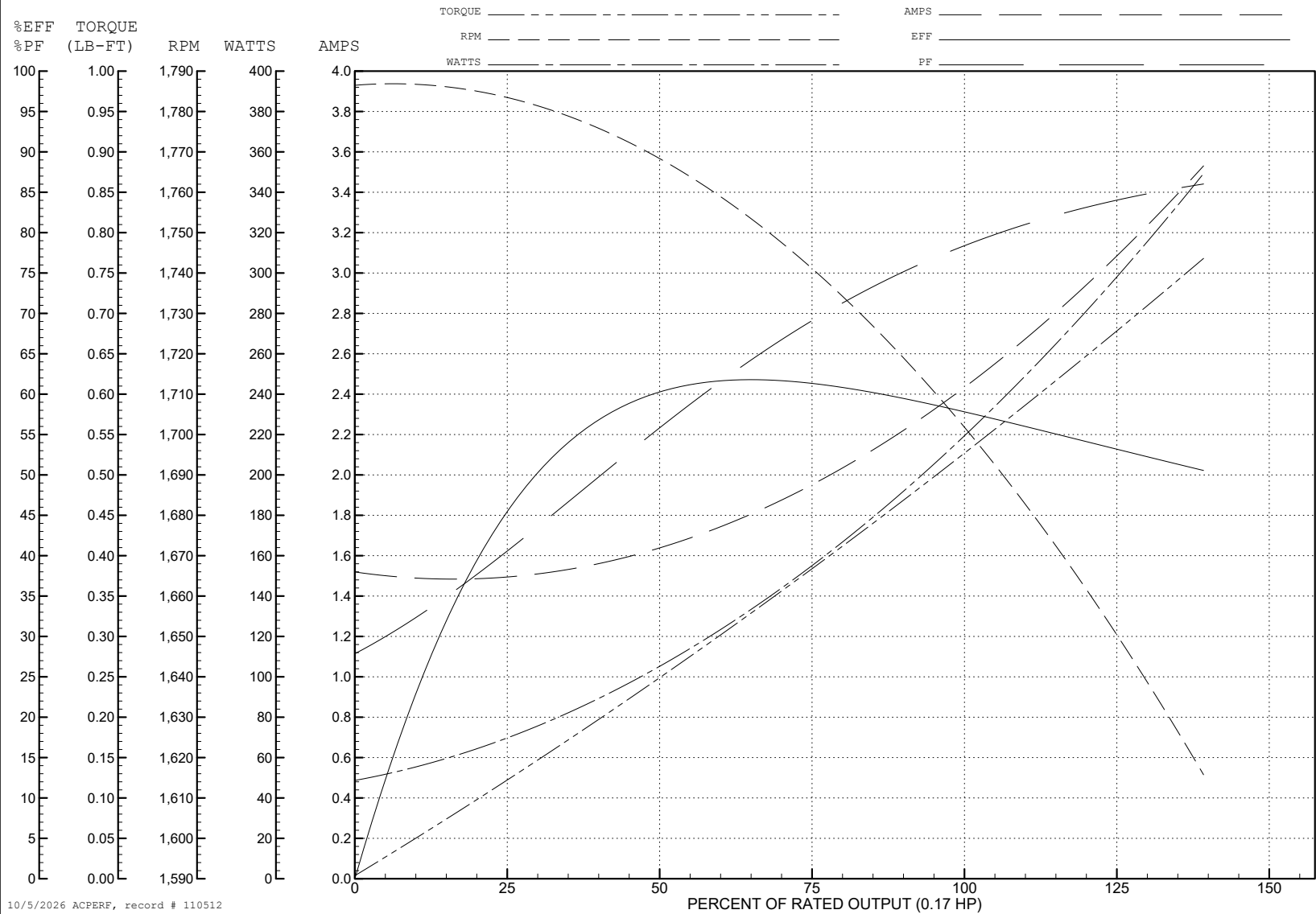
ABB Motors and Mechanical Inc.

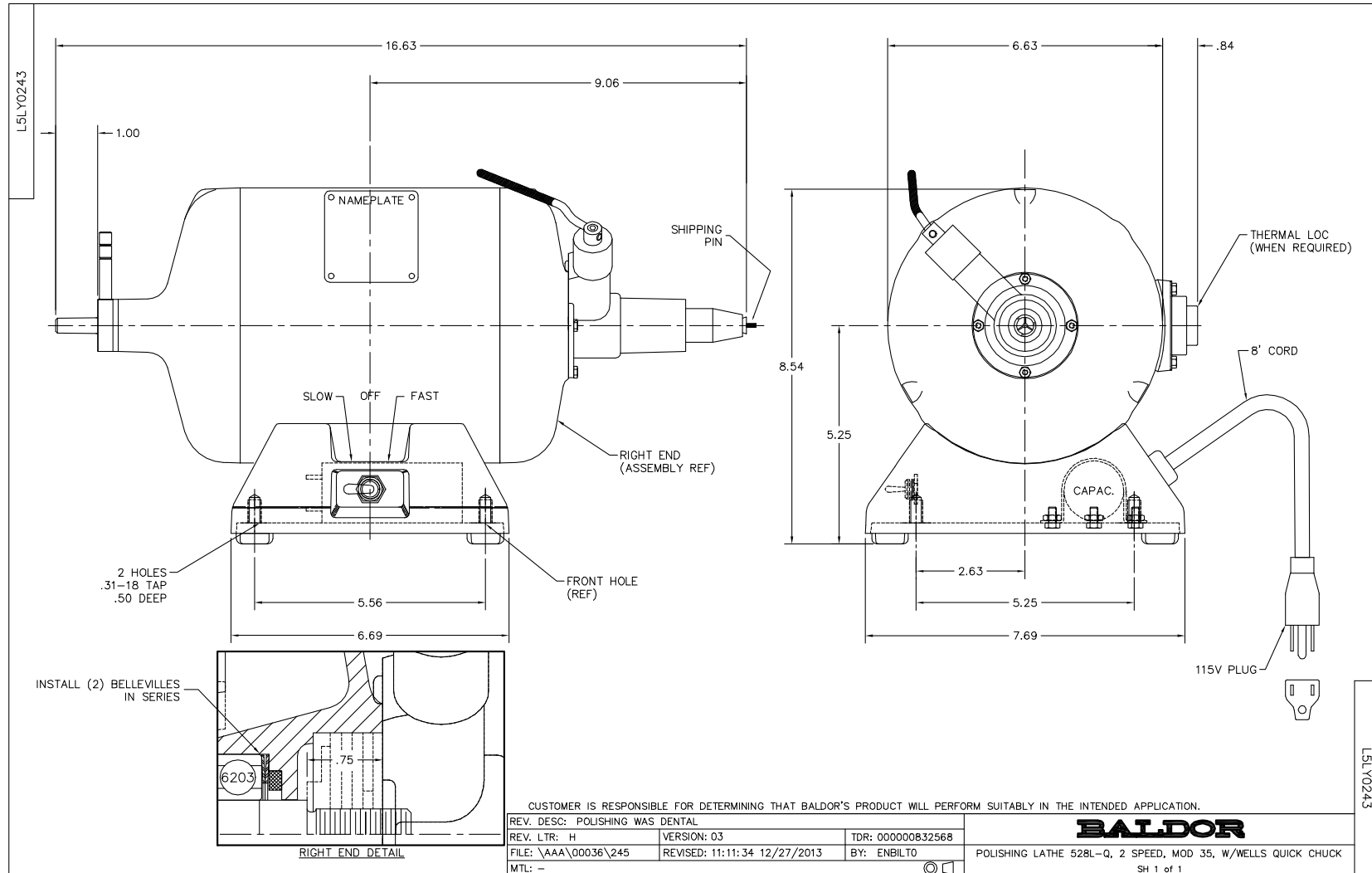
WINDING # L5WG0330

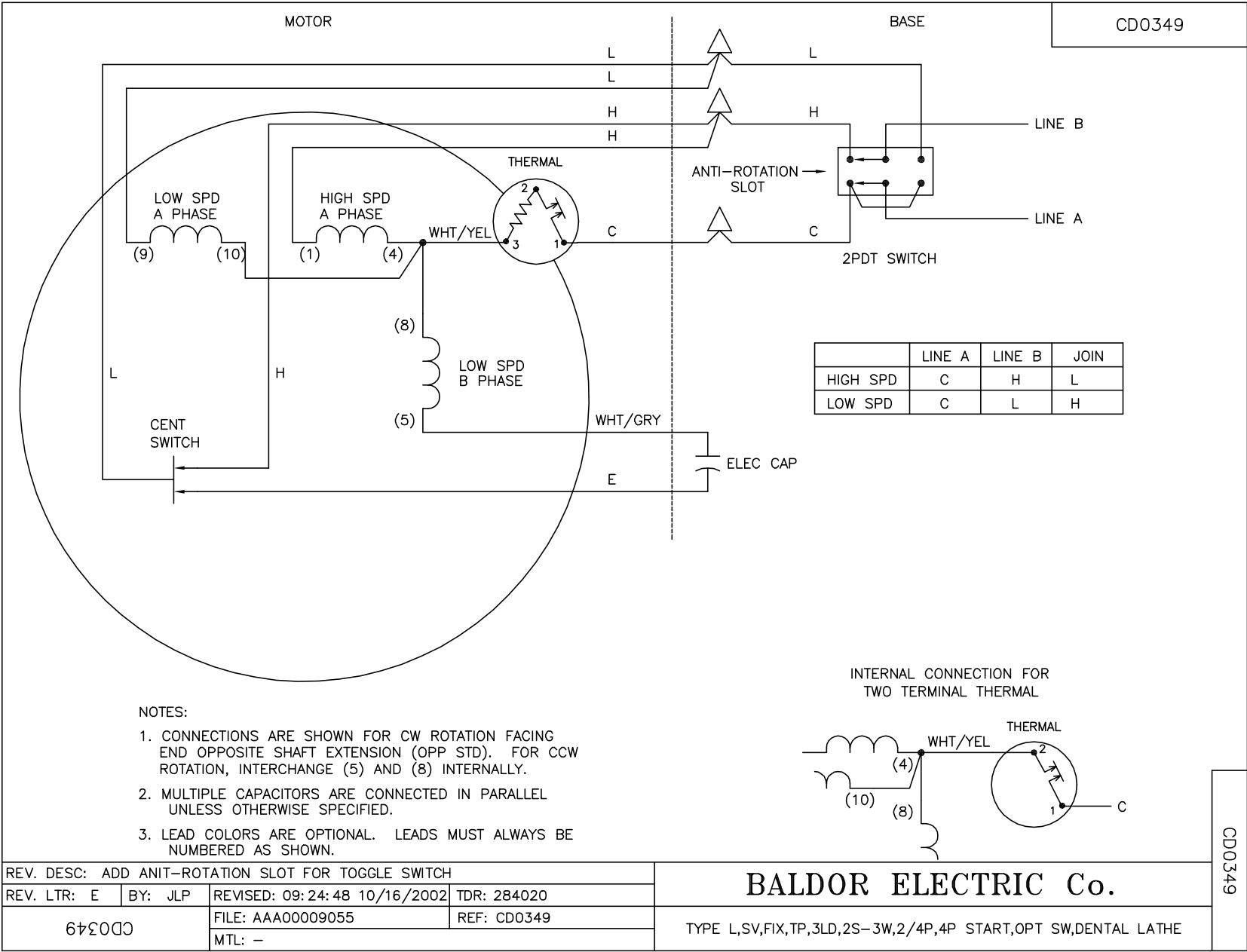
Typical performance - not guaranteed values.

0.17 HP 1 PH 60 HZ 1710.4 RPM 115 V L3528L

TORQUES (LB-FT): PO=1.55 PU=0.636 LR=1.03 LRA=23.5







REV. DESC: ADD ANIT-ROTATION SLOT FOR TOGGLE SWITCH

REV. LTR: E BY: JLP REVISED: 09:24:48 10/16/2002 TDR: 284020

672003

FILE: AAA00009055 REF: CD0349

MTL: -

BALDOR ELECTRIC Co.

TYPE L,SV,FIX,TP,3LD,2S-3W,2/4P,4P START,OPT SW,DENTAL LATHE

CD0349