ABB BALDOR RELIANCE

Customer information packet

380WCT

28L 2/4P POLISHING LATHE MTO

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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. @ 25ºC**	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

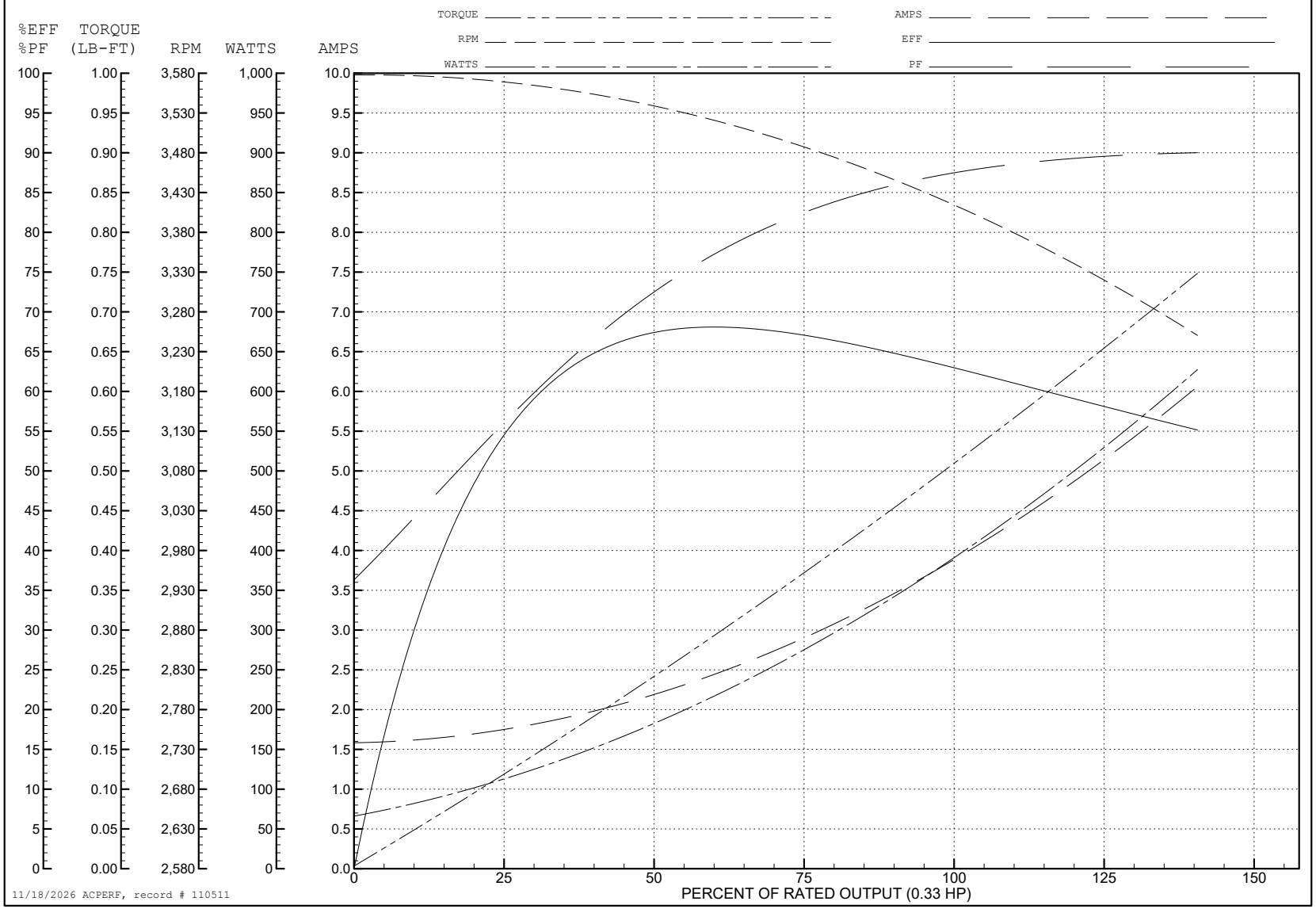
ABB Motors and Mechanical Inc.

WINDING # L5WG0330

0.33 HP 1 PH 60 HZ 3428.7 RPM 115 V L3528L

Typical performance - not guaranteed values.

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



11/18/2026 ACPERF, record # 110511

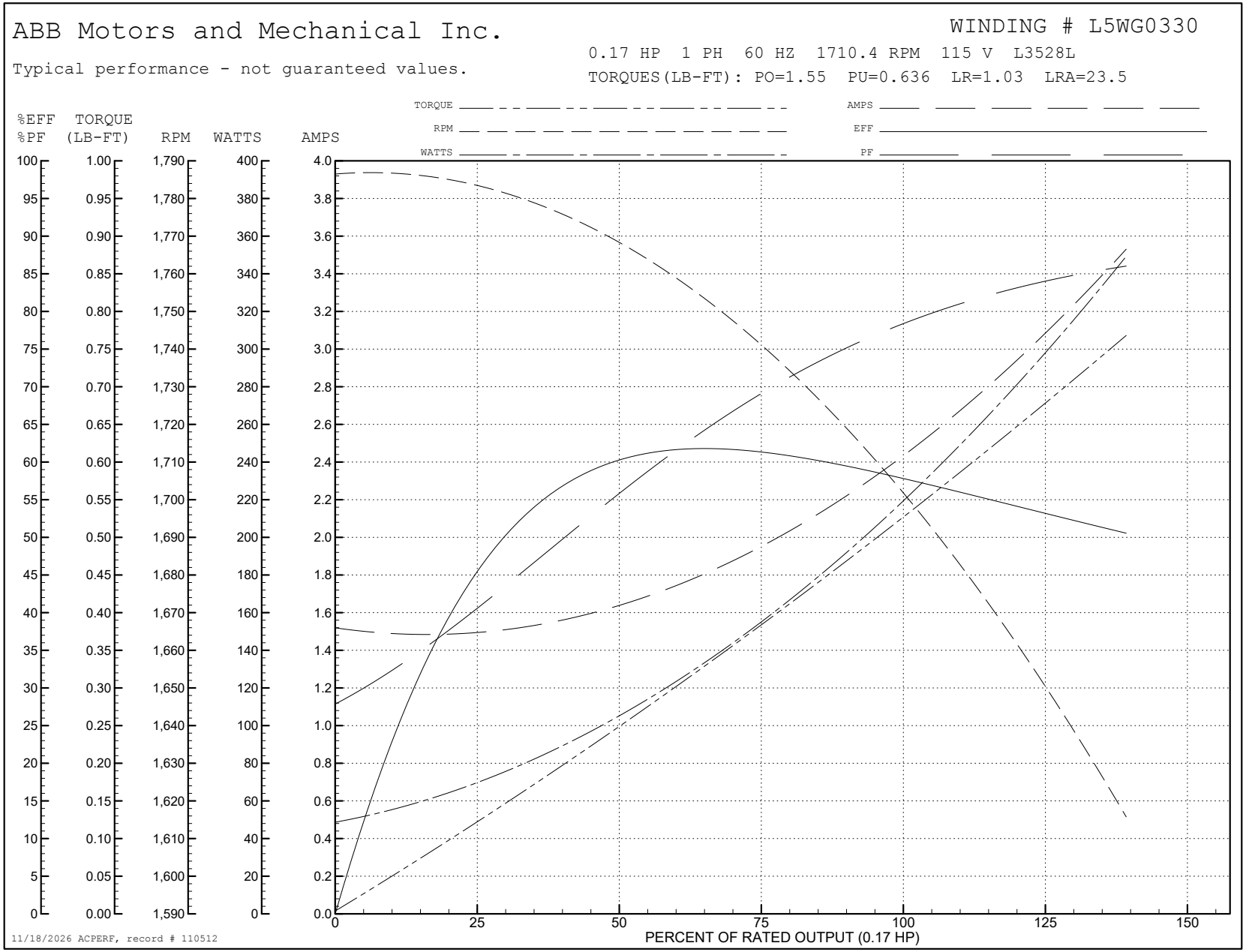
AC Induction Motor Performance Data
Record # 110512
Typical performance - not guaranteed values

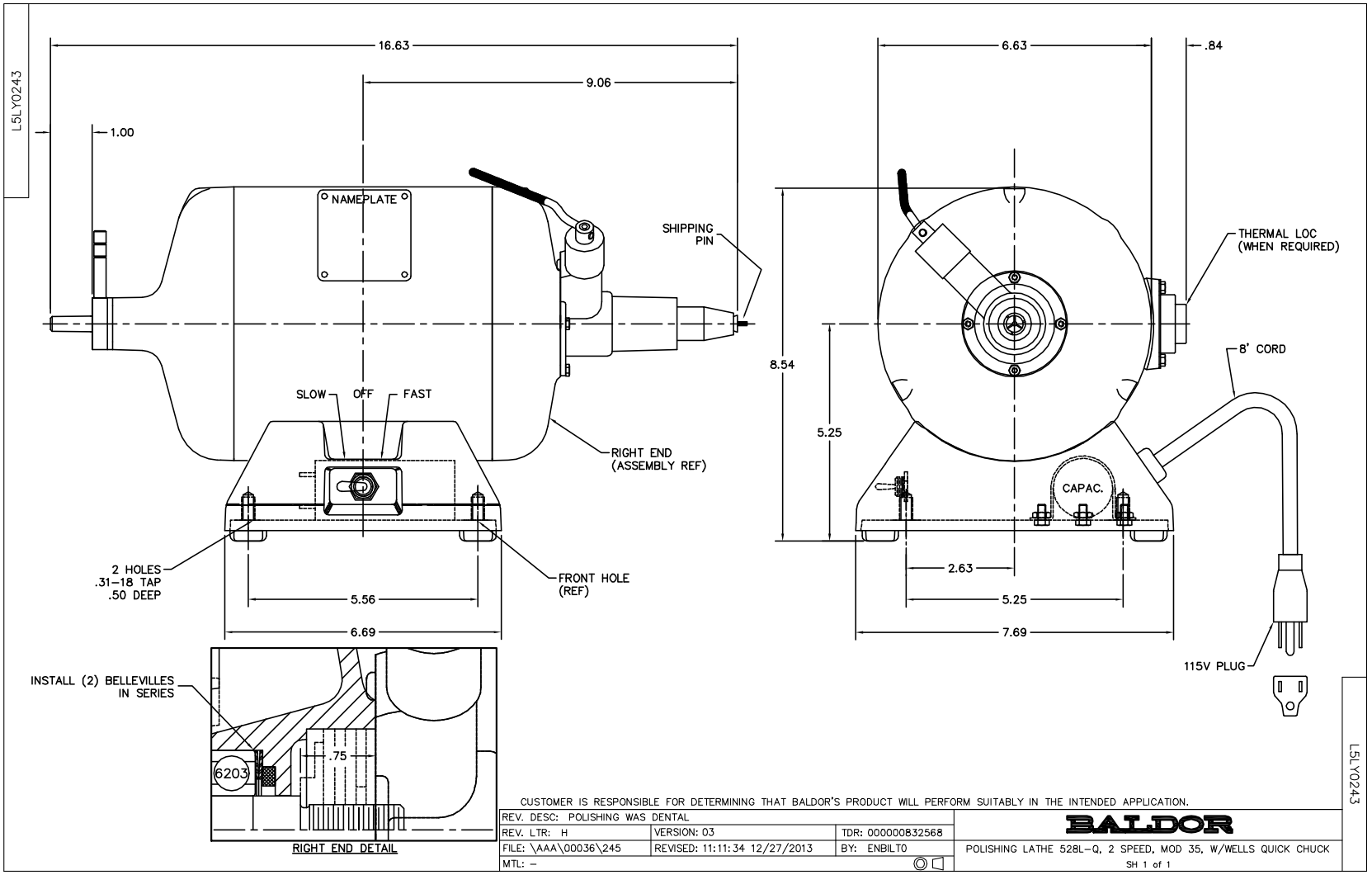
Winding: L5WG0330-R002	**Type:** L3528L	**Enclosure:** TENV

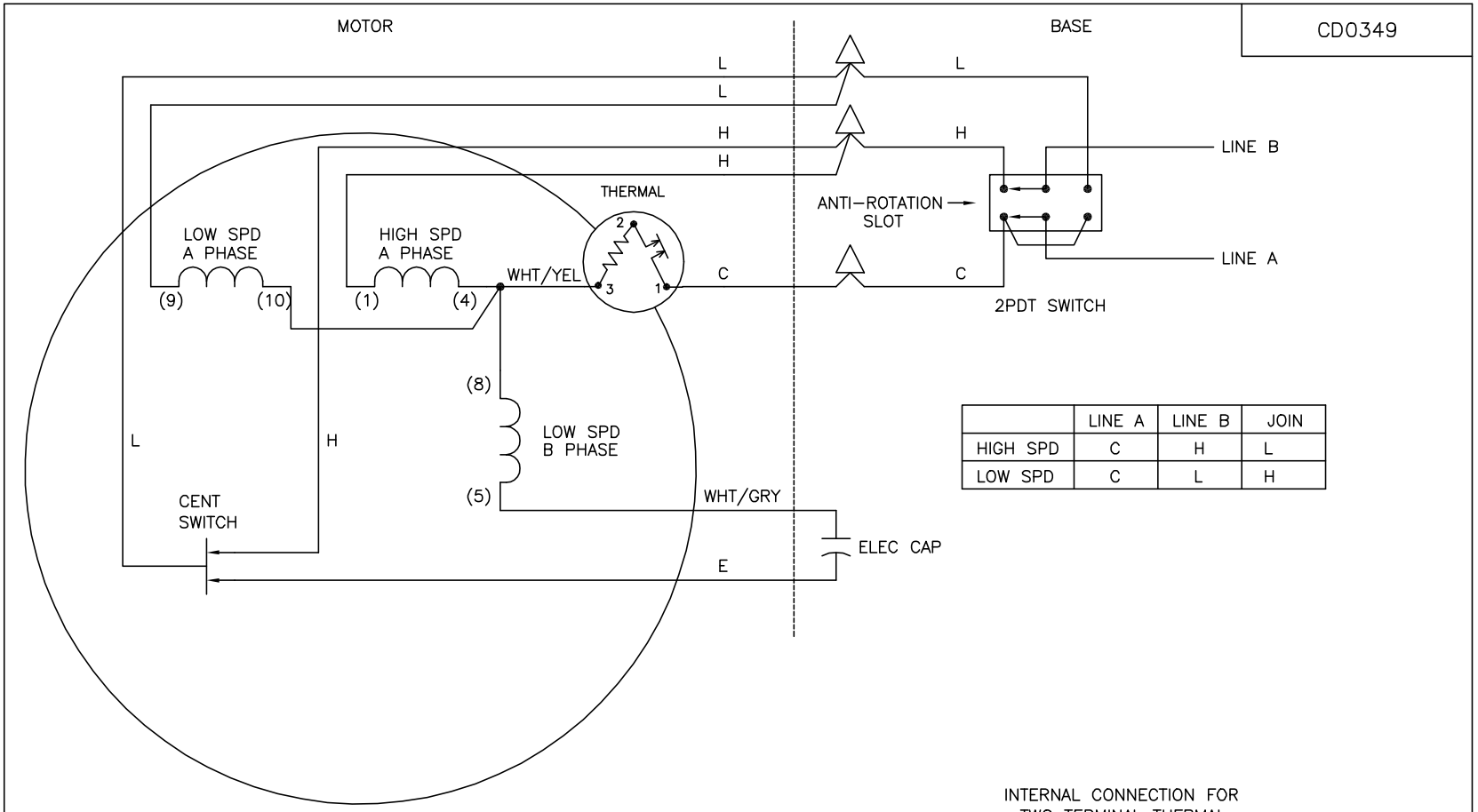
Nameplate Data				**115 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			.33/.17	**Full Load Torque**	0.5177 LB-FT
Volts			115	**Start Configuration**	direct on line
Full Load Amps			3.8/2.4	**Breakdown Torque**	1.55 LB-FT
R.P.M.			3430/1710	**Pull-up Torque**	0.636 LB-FT
Hz	60	**Phase**	1	**Locked-rotor 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. @ 25ºC**	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


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WINDING # L5WG0330
0.17 HP 1 PH 60 HZ 1710.4 RPM 115 V L3528L
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=1.55 PU=0.636 LR=1.03 LRA=23.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.17 HP)
11/18/2026 ACPERF, record # 110512


L5LY0243
16.63
9.06
1.00
NAMEPLATE
SHIPPING PIN
SLOW
OFF
FAST
RIGHT END (ASSEMBLY REF)
2 HOLES .31–18 TAP .50 DEEP
FRONT HOLE (REF)
5.56
6.69
INSTALL (2) BELLEVILLES IN SERIES
.75
6203
RIGHT END DETAIL
6.63
.84
THERMAL LOC (WHEN REQUIRED)
8.54
5.25
8' CORD
CAPAC.
2.63
5.25
7.69
115V PLUG
L5LY0243
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: POLISHING WAS DENTAL
REV. LTR: H
VERSION: 03
TDR: 000000832568
FILE: \AAA\00036\245
REVISED: 11:11:34 12/27/2013
BY: ENBILTO
MTL: –
BALDOR
POLISHING LATHE 528L–Q, 2 SPEED, MOD 35, W/WELLS QUICK CHUCK
SH 1 of 1



	LINE A	LINE B	JOIN
HIGH SPD	C	H	L
LOW SPD	C	L	H