ABB BALDOR RELIANCE

Customer information packet

380T

28L 2/4P POLISHING LATHE DBL-SHAFT MT

7/27/2026 6:29:20 PM

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
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	3.800 A @ 115.0 V
Design Code	-
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Insulation Class	B
KVA Code	-

Part Detail

Revision	G
Type	AC
Mech. spec.	L35-242
Base	
Status	PRD/A
Elec. spec.	L5WG0330
Layout	L5LY0242
Eff. date	02-05-2026
CD Diagram	CD0349
Poles	02/04
Leads	3#18
Proprietary	False
Created date	02-23-2023

Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	Other
Motor Type	3528L
Mounting Arrangement	F1
Overall Length	15.19 IN
Product Family	Dental Lathe
Service Factor	1.00
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed Code	1Ph 2 Speed Pole Changing
Starting Method	Direct on line
Thermal Device - Winding	Do Not Use
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

	NP3356L		
CAT.NO.	380T		
SPEC.	L35-242G0330		
HP	.33/.17		
VOLTS	115		
PHASE	1	**AMPS**	3.8/2.4
CYCLE	60		
RPM	3430/1710		
CL	B		
RATING	40C AMB-CONT		
SERIAL			

Accessories

Part number	Description	Multiplier
R1	DR-3544 R1 RH CHUCK	A8
R2	DR-3546B R2 RH WHEEL CHUCK	A8
R5A	BURR CHUCK-RH	A8
R6	ARBOR BAND CHUCK	A8
L3	DR-3545 LH HD WHEEL CHUCK	A8
L4	DR-3547B L4 LH SF WHEEL CHUCK	A8

AC Induction Motor Performance Data
Record # 108932
Typical performance - not guaranteed values

Winding: L5WG0330-R001	**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

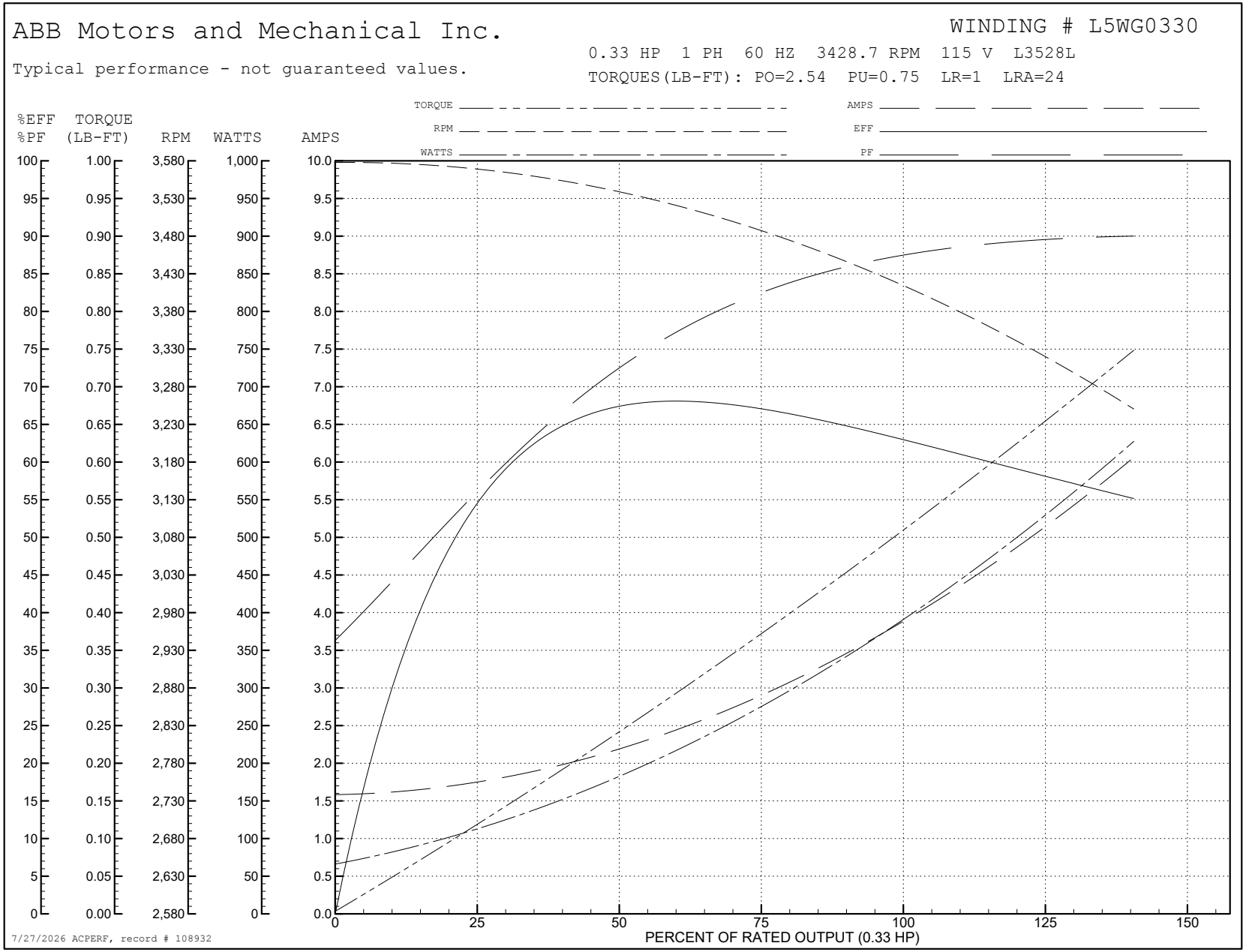


ABB Motors and Mechanical Inc.
WINDING # L5WG0330
Typical performance - not guaranteed values.
0.33 HP 1 PH 60 HZ 3428.7 RPM 115 V L3528L
TORQUES(LB-FT): PO=2.54 PU=0.75 LR=1 LRA=24
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
1.00 0.95 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.10 0.05 0.00
3,580 3,530 3,480 3,430 3,380 3,330 3,280 3,230 3,180 3,130 3,080 3,030 2,980 2,930 2,880 2,830 2,780 2,730 2,680 2,630 2,580
1,000 950 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (0.33 HP)
7/27/2026 ACPERF, record # 108932

AC Induction Motor Performance Data
Record # 108933
Typical performance - not guaranteed values

Winding: L5WG0330-R001	**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.			3450/1715	**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

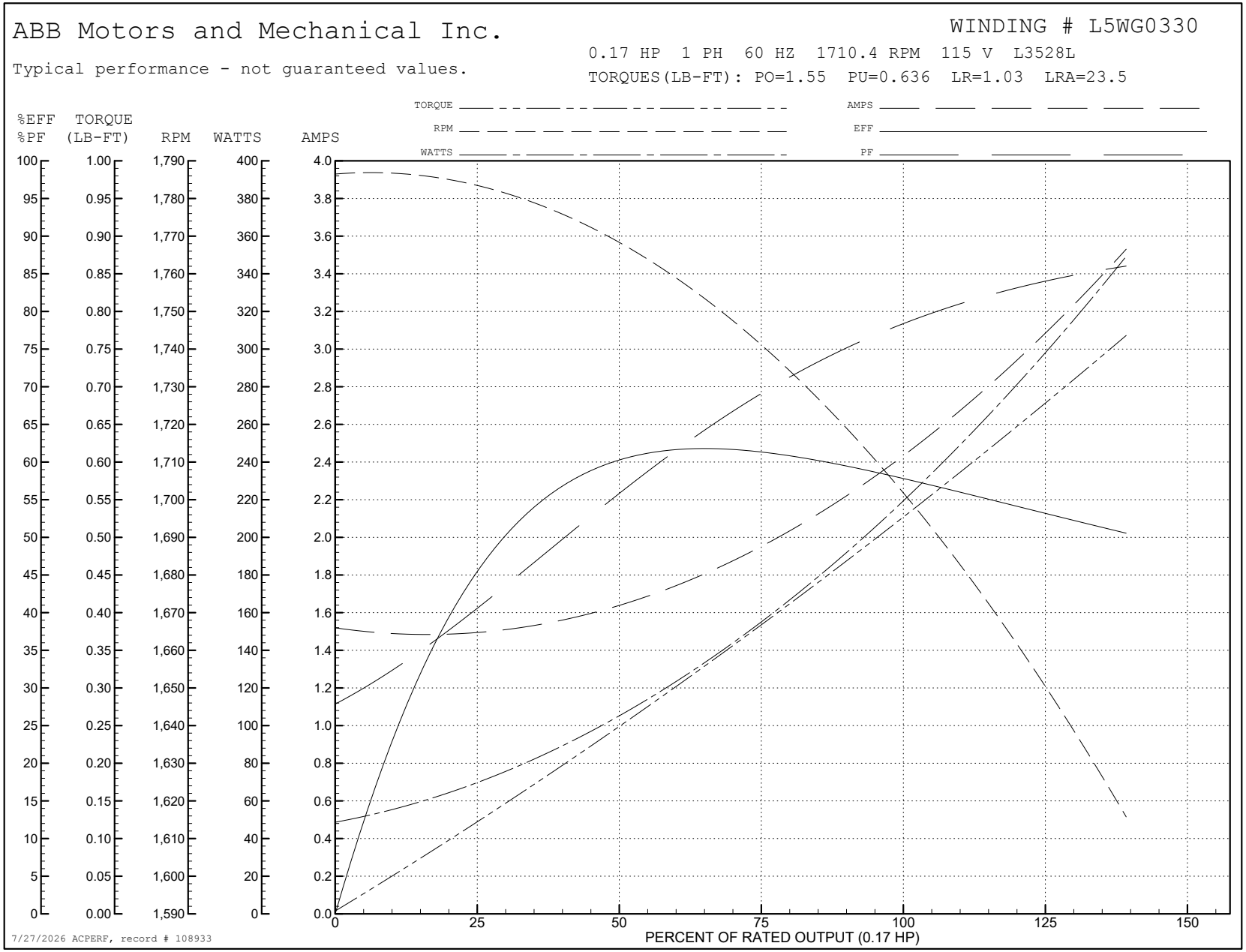
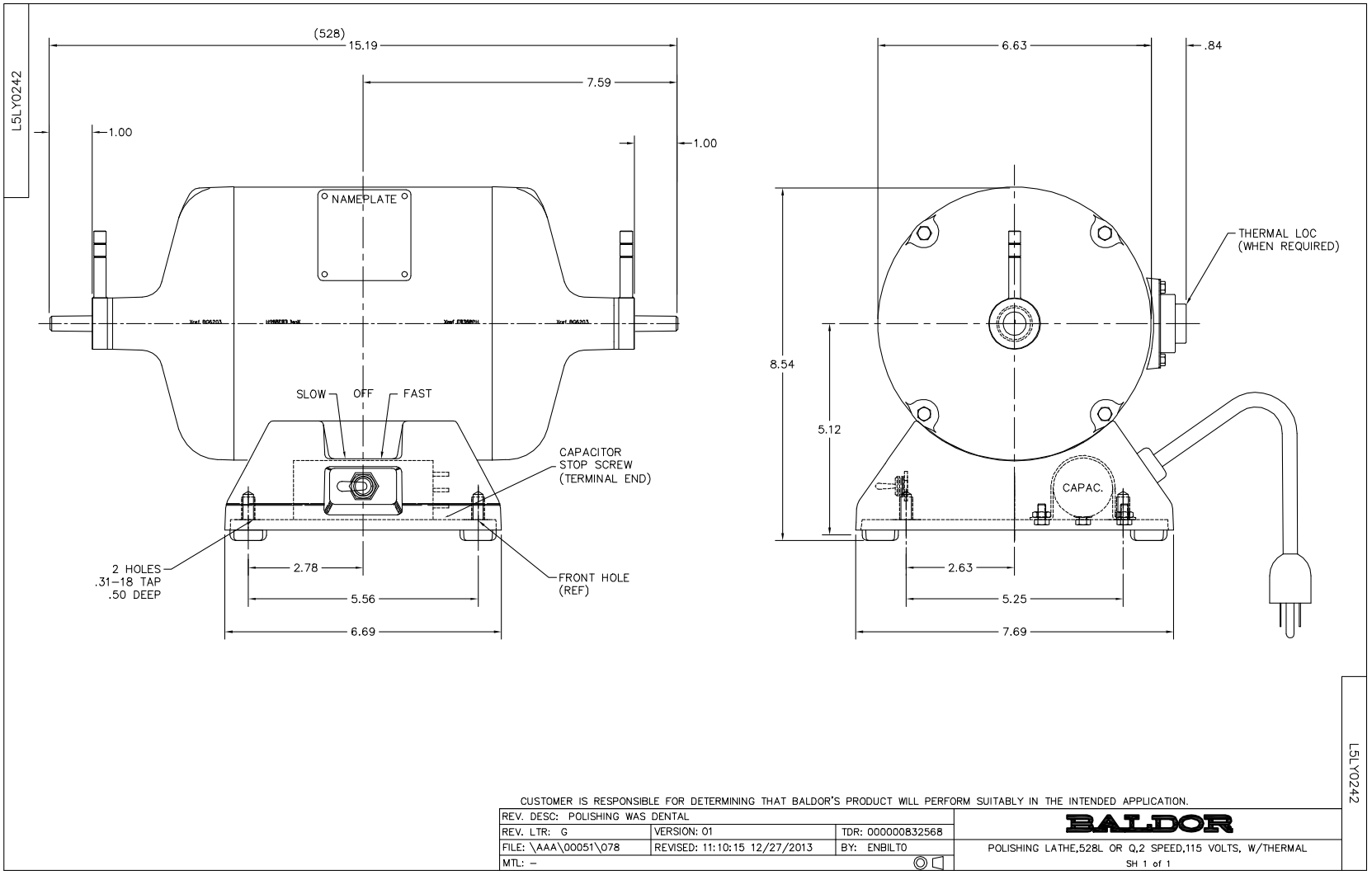
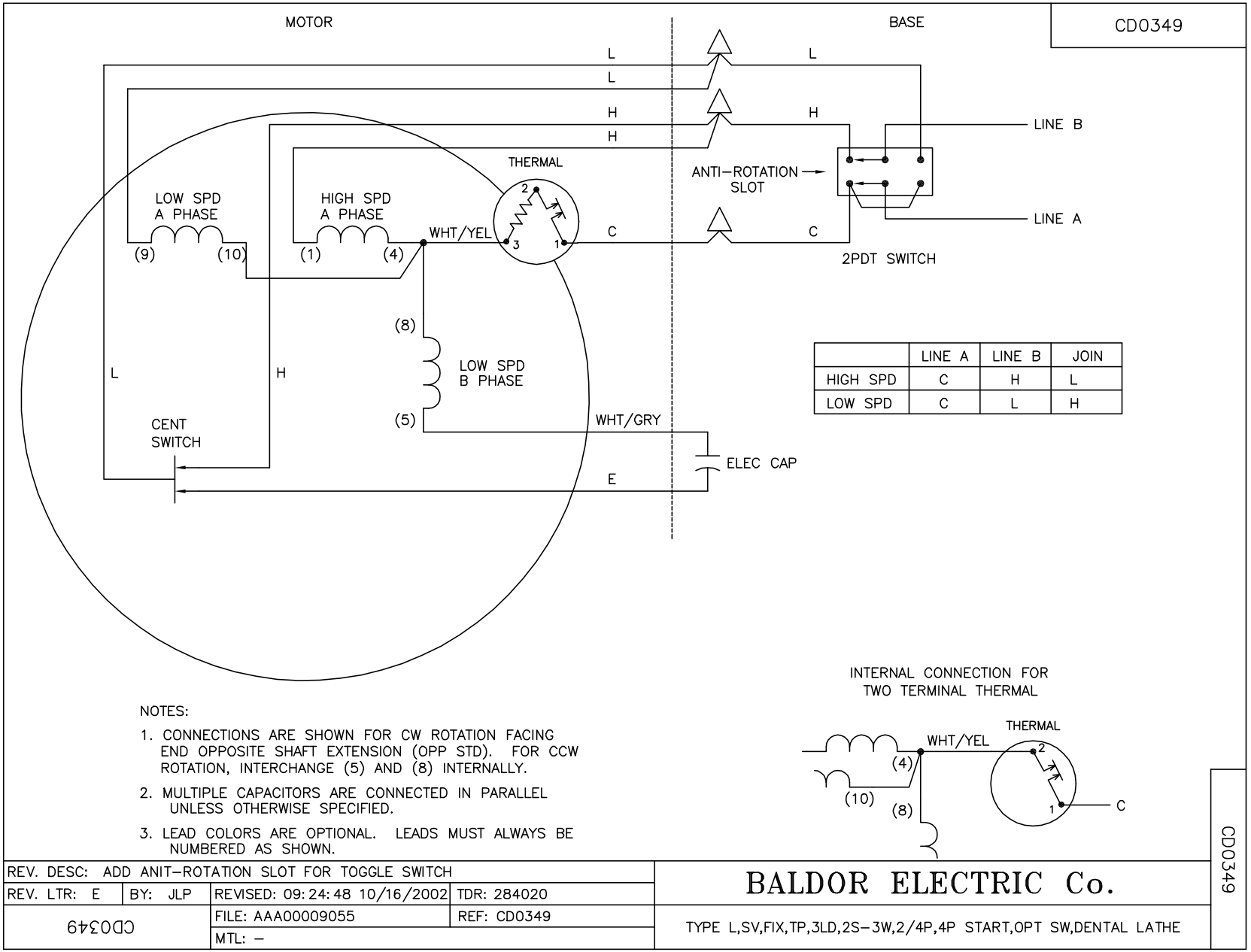


ABB Motors and Mechanical Inc.
WINDING # L5WG0330
Typical performance - not guaranteed values.
0.17 HP 1 PH 60 HZ 1710.4 RPM 115 V L3528L
TORQUES(LB-FT): PO=1.55 PU=0.636 LR=1.03 LRA=23.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.17 HP)
7/27/2026 ACPERF, record # 108933


L5LY0242
(528)
15.19
7.59
1.00
1.00
NAMEPLATE
SLOW
OFF
FAST
CAPACITOR
STOP SCREW
(TERMINAL END)
2 HOLES
.31–18 TAP
.50 DEEP
2.78
5.56
6.69
FRONT HOLE
(REF)
6.63
.84
THERMAL LOC
(WHEN REQUIRED)
8.54
5.12
CAPAC.
2.63
5.25
7.69
L5LY0242
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: POLISHING WAS DENTAL
REV. LTR: G
VERSION: 01
TDR: 000000832568
FILE: \AAA\00051\078
REVISED: 11:10:15 12/27/2013
BY: ENBILTO
MTL: –
BALDOR
POLISHING LATHE,528L OR Q,2 SPEED,115 VOLTS, W/THERMAL
SH 1 of 1


MOTOR
BASE
CD0349
L
L
H
H
LINE B
LINE A
THERMAL
ANTI–ROTATION SLOT
LOW SPD A PHASE
HIGH SPD A PHASE
WHT/YEL
C
C
2PDT SWITCH
(9)
(10)
(1)
(4)
(8)
LOW SPD B PHASE
(5)
WHT/GRY
CENT SWITCH
ELEC CAP
E
L
H
LINE A
LINE B
JOIN
HIGH SPD
C
H
L
LOW SPD
C
L
H
INTERNAL CONNECTION FOR TWO TERMINAL THERMAL
THERMAL
WHT/YEL
(4)
(10)
(8)
C
NOTES:
1. CONNECTIONS ARE SHOWN FOR CW ROTATION FACING END OPPOSITE SHAFT EXTENSION (OPP STD). FOR CCW ROTATION, INTERCHANGE (5) AND (8) INTERNALLY.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.
REV. DESC: ADD ANIT–ROTATION SLOT FOR TOGGLE SWITCH
REV. LTR: E
BY: JLP
REVISED: 09:24:48 10/16/2002
TDR: 284020
FILE: AAA00009055
REF: CD0349
MTL: –
CD0349
BALDOR ELECTRIC Co.
TYPE L,SV,FIX,TP,3LD,2S–3W,2/4P,4P START,OPT SW,DENTAL LATHE
CD0349