

ABB BALDOR RELIANCE III

Customer information packet 380T

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

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	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

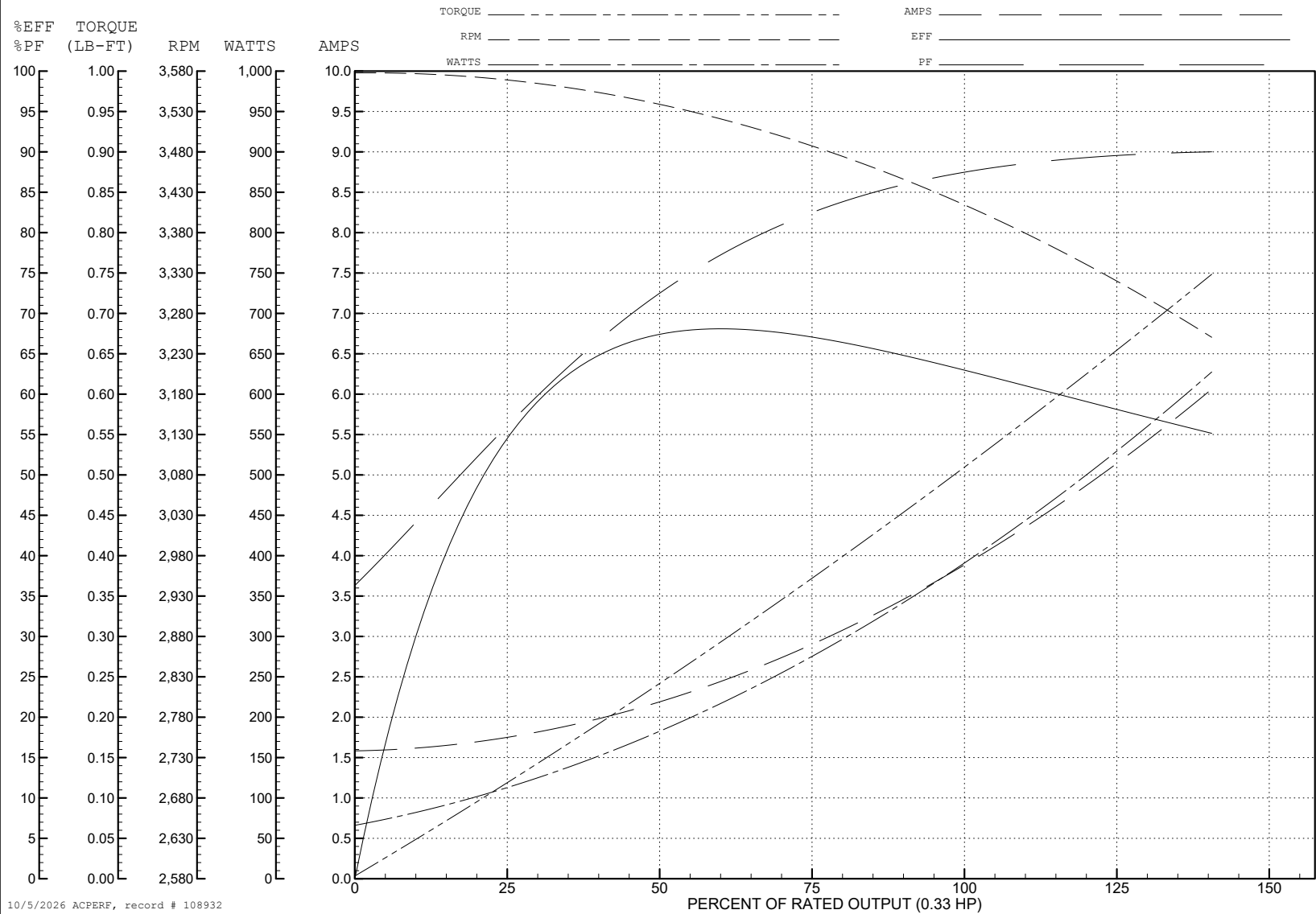
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WINDING # L5WG0330

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



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	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

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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

