

# Motorized Pulley 80LP

Ø 3.37 in. (80 mm), planetary polymer gearbox



Power & Speed Combinations: 3 phase											
Power HP	Poles	FLA (amps) <sup>1</sup>	No. Gear Stages	Gear Ratio	Nominal belt speed at Full Load 60 Hz fpm <sup>2</sup>	Actual belt speed at Full Load 60 Hz fpm <sup>2</sup>	Belt Pull lbs	Max. Radial Load T1 + T2 lbs <sup>3</sup>	RL in		
0.08	4	0.6/0.4	3	77.1	12	14	112*	450	min 10.59 max 35.43		
				64.4	14	16	112*				
				54.5	18	20	112				
				46.0	24	22	101				
				43.7	26	24	92				
				36.8	30	30	75				
				35.0	35	32	70				
				29.5	38	38	59				
			23.2	48	48	47					
			2	14.2	76	78	29		min 9.96 max 35.43		
0.16	4	0.9/0.7	3	29.5	38	38	94*	450	min 11.50 max 35.43		
				23.2	48	48	94				
			2	14.2	76	78	58			340	min 10.87 max 35.43
				12.0	90	92	49				
				11.3	96	98	46				
						9.5	120	118	38		
						7.5	150	155	29		

Power & Speed Combinations: 1 phase									
Power HP	Poles	FLA (amps) <sup>1</sup>	No. Gear Stages	Gear Ratio	Nominal belt speed at Full Load 60 Hz fpm <sup>2</sup>	Actual belt speed at Full Load 60 Hz fpm <sup>2</sup>	Belt Pull lbs	Max. Radial Load T1 + T2 lbs <sup>3</sup>	RL in
0.08	4	0.05	3	77.1	12	14	112*	450	min 11.02 max 35.43
				64.4	14	16	112*		
				54.5	18	20	112		
				46.0	24	22	101		
				43.7	26	24	92		
				36.8	30	30	75		
				35.0	35	32	70		
				29.5	38	38	59		
			23.2	48	48	47			
			2	14.2	76	78	29		min 10.59 max 35.43
0.1	4	0.07	3	36.8	30	30	90	450	min 11.50 max 35.43
				35.0	35	32	84		
				29.5	38	38	70		
				23.2	48	48	58		
			2	14.2	76	78	36	340	min 10.87 max 35.43
				12.0	90	92	31		
				11.3	96	98	29		
			9.5	120	118	24			

<sup>1</sup> FLA = full load amps at 230 volts & 460 volts (in 3 phase) and 230 volts (in 1 phase), respectively.

<sup>2</sup> Use "Nominal Speed" to specify pulley. "Actual belt speed" is presented (for unlagged pulley) to assist with process design calculations. See "Actual Speed vs Nominal Speed" section in Technical Precautions. Note that actual belt speed increases when lagging is used due to increased pulley diameter.

<sup>3</sup> Pulley must not be subjected to radial load exceeding "Maximum Radial Load". See "Belt Tension" section in Technical Precautions.

\* Note that belt pull is restricted in certain (slow speed) cases. Contact Rulmeca for more information.