

# Motorized Pulley 113LP

Ø 4.47 in. (113 mm), with planetary gearbox  
in polymer or polymer / steel combination



| 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     | 0.8/0.4                 | 4               | 267.7      | 6  | 6   | 202*          | 450                                       | min 10.08<br>max 47.24 |      |    |     |     |     |
|                                     |       |                         |                 | 204.5      | 8  | 8   | 199*          |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 120.2      | 12   | 12  | 187           |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 92.9       | 14   | 16  | 141           |   |                        |      |    |     |     |     |
|                                     |       |                         | 3               | 63.4       | 26   | 24  | 94            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 48.4       | 30   | 30  | 75            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 37.3       | 38   | 40  | 56            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 28.6       | 48   | 52  | 43            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 24.9       | 60   | 62  | 36            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 21.9       | 76   | 72  | 31            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 2          | 14.9   | 96  | 100           |   |                        | 22   |    |     |     |     |
|                                     |       |                         |                 |            | 11.3   | 150   | 139           |   |                        | 16   |    |     |     |     |
| 0.16                                | 4     | 1.0/0.7                 | 3               | 63.4       | 24   | 24  | 187           | 450                                       | min 10.08<br>max 47.24 |      |    |     |     |     |
|                                     |       |                         |                 | 48.4       | 30   | 30  | 150           |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 37.3       | 38   | 40  | 112           |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 28.6       | 48   | 52  | 87            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 24.9       | 60   | 62  | 72            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 21.9       | 76   | 72  | 62            |   |                        |      |    |     |     |     |
|                                     |       |                         | 2               | 14.9       | 96   | 100   | 45            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 11.3       | 150  | 139   | 33            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 9.9        | 165  | 163   | 28            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 |            | 340  | 7.5   | 240           | 211                                       |                        | 32   |    |     |     |     |
|                                     |       |                         |                 | 0.24       |  | 4   | 1.3/0.9       | 3   |                        | 37.3 | 38 | 40  | 169 | 450 |
|                                     |       |                         |                 |            | 28.6   |   |               |   |                        | 48   | 52 | 130 |     |     |
| 24.9                                | 60    | 62                      | 109             |            |  |   |               |   |                        |      |    |     |     |     |
| 21.9                                | 76    | 72                      | 94              |            |  |   |               |   |                        |      |    |     |     |     |
| 2                                   | 14.9  | 96                      | 100             |            | 67   |   |               |   |                        |      |    |     |     |     |
|                                     | 11.3  | 150                     | 139             |            | 49   |   |               |   |                        |      |    |     |     |     |
|                                     | 9.9   | 165                     | 163             |            | 42   |   |               |   |                        |      |    |     |     |     |
|                                     | 8.7   | 192                     | 183             |            | 37   |   |               |   |                        |      |    |     |     |     |
| 0.34                                | 4     | 1.6/1.2                 | 3               | 7.5        | 240  | 211   | 32            | 450                                       | min 10.87<br>max 47.24 |      |    |     |     |     |
|                                     |       |                         |                 | 28.6       | 48   | 52  | 180           |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 24.9       | 60   | 62  | 151           |   |                        |      |    |     |     |     |
|                                     |       |                         | 2               | 21.9       | 76   | 72  | 130           |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 14.9       | 96   | 100   | 94            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 11.3       | 150  | 139   | 68            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 9.9        | 165  | 163   | 58            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 8.7        | 192  | 183   | 52            |   |                        |      |    |     |     |     |
| 0.5                                 | 4     | 2.1/1.2                 | 3               | 7.5        | 240  | 211   | 45            | 450                                       | min 11.57<br>max 47.24 |      |    |     |     |     |
|                                     |       |                         |                 | 21.9       | 76   | 72  | 193           |   |                        |      |    |     |     |     |
|                                     |       |                         | 2               | 14.9       | 96   | 100   | 139           |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 11.3       | 150  | 139   | 100           |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 9.9        | 165  | 163   | 86            |   |                        |      |    |     |     |     |
|                                     |       |                         |                 | 8.7        | 192  | 183   | 76            |   |                        |      |    |     |     |     |
| 7.5                                 | 240   | 211                     | 66              |            |  |   |               |   |                        |      |    |     |     |     |

- 1 FLA = full load amps at 230 volts & 460 volts, respectively.
- 2 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.
- 3 Pulley must not be subjected to radial load exceeding "Maximum Radial Load" defined above. See "Belt Tension" section in Technical Precautions.
- \* Note that belt pull is restricted in certain (slow speed) cases. Contact Rulmeca for more information.



# Motorized Pulley 113LP

Ø 4.47 in. (113 mm), with planetary gearbox  
in polymer or polymer / steel combination

| Power & Speed Combinations: 1 phase |       |                         |                 |            |   |  |               |   |                        |     |                        |     |     |                        |
|-------------------------------------|-------|-------------------------|-----------------|------------|---|--|---------------|---|------------------------|-----|------------------------|-----|-----|------------------------|
| Power HP                            | Poles | FLA (amps) <sup>1</sup> | No. Gear Stages | Gear Ratio | Actual belt speed at Full Load 60 Hz fpm <sup>2</sup> | Nominal 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     | NA/0.07                 | 4               | 267.7      | 6   | 6  | 202*          | 450                                       | min 10.08<br>max 47.24 |     |                        |     |     |                        |
|                                     |       |                         |                 | 204.5      | 8   | 8  | 199*          |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 120.2      | 12  | 12   | 187           |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 92.9       | 14  | 16   | 141           |   |                        |     |                        |     |     |                        |
|                                     |       |                         | 3               | 63.4       | 24  | 24   | 94            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 48.4       | 30  | 30   | 75            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 37.3       | 38  | 40   | 56            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 28.6       | 48  | 52   | 43            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 24.9       | 60  | 62   | 36            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 21.9       | 76  | 72   | 31            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 2          | 14.9  | 96   | 100           |   |                        | 22  |                        |     |     |                        |
|                                     |       |                         |                 |            | 11.3  | 150  | 139           |   |                        | 16  |                        |     |     |                        |
|                                     |       |                         | 0.16            | 4          | 2.5/0.09  | 3  | 63.4          |   |                        | 24  | 24                     | 187 | 450 | min 10.08<br>max 47.24 |
|                                     |       |                         |                 |            |   |  | 48.4          |   |                        | 30  | 30                     | 150 |     |                        |
| 37.3                                | 38    | 40                      |                 |            |   |  | 112           |   |                        |     |                        |     |     |                        |
| 28.6                                | 48    | 52                      |                 |            |   |  | 87            |   |                        |     |                        |     |     |                        |
| 24.9                                | 60    | 62                      |                 |            |   |  | 72            |   |                        |     |                        |     |     |                        |
| 21.9                                | 76    | 72                      |                 |            |   |  | 62            |   |                        |     |                        |     |     |                        |
| 2                                   | 14.9  | 96                      |                 |            |   | 100  | 45            |   |                        |     |                        |     |     |                        |
|                                     | 11.3  | 150                     |                 |            |   | 139  | 33            |   |                        |     |                        |     |     |                        |
|                                     | 9.9   | 165                     |                 |            |   | 163  | 28            |   |                        |     |                        |     |     |                        |
|                                     | 37.3  | 38                      |                 |            |   | 40   | 169           |   |                        |     |                        |     |     |                        |
| 0.24                                | 4     | 2.9/2.3                 | 3               | 28.6       | 48  | 52   | 130           | 450                                       | min 10.87<br>max 47.24 |     |                        |     |     |                        |
|                                     |       |                         |                 | 24.9       | 60  | 62   | 109           |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 21.9       | 76  | 72   | 94            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 14.9       | 96  | 100  | 67            |   |                        |     |                        |     |     |                        |
|                                     |       |                         | 2               | 11.3       | 150   | 139  | 49            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 9.9        | 165   | 163  | 42            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 8.7        | 192   | 183  | 37            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 7.5        | 240   | 211  | 32            |   |                        |     |                        |     |     |                        |
|                                     |       |                         |                 | 28.6       | 48  | 52   | 180           |   |                        | 450 | min 11.57<br>max 47.24 |     |     |                        |
|                                     |       |                         |                 | 24.9       | 60  | 62   | 151           |   |                        |     |                        |     |     |                        |
| 21.9                                | 76    | 72                      | 130             |            |   |  |               |   |                        |     |                        |     |     |                        |
| 2                                   | 14.9  | 96                      | 100             | 94         |   |  |               |   |                        |     |                        |     |     |                        |
|                                     | 11.3  | 150                     | 139             | 68         |   |  |               |   |                        |     |                        |     |     |                        |
|                                     | 9.9   | 165                     | 163             | 58         |   |  |               |   |                        |     |                        |     |     |                        |
|                                     | 8.7   | 192                     | 183             | 52         |   |  |               |   |                        |     |                        |     |     |                        |
|                                     | 7.5   | 240                     | 211             | 45         |   |  |               |   |                        |     |                        |     |     |                        |

1 FLA = full load amps at 115 volts & 230 volts, respectively.

2 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.

3 Pulley must not be subjected to radial load exceeding "Maximum Radial Load" defined above. See "Belt Tension" section in Technical Precautions.

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