



Minimum tube length

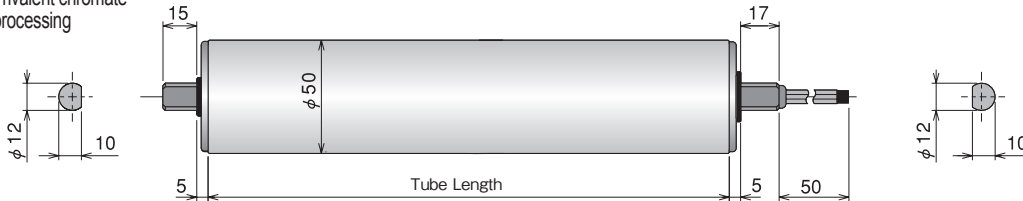


Spring loaded shaft

AC For handling medium load Roller PM500 series

Roller diameter $\phi 50$ Roller diameter $\phi 50$

- Roller diameter / $\phi 50$
- Thickness / t1.4
- Shaft diameter / $\phi 12$
- Voltage / 3ph 200V, 1ph 100V
(Single-phase specification is PM500BS series only)
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing



Operation

Standard type BS series

Continuous duty 24 hours Intermittent Operation Minimum contact time 3 seconds ON, 2 seconds OFF

Accumulation type AU series

This high-impedance low-current rating motor does not burn out even when locked continuously. Starting torque and tangential force is lower than standard motors. Used for continuous or intermittent operation with no restriction of fact time.

Tube Length : PM500BS / PM500BU



200mm

250mm \leq

Tube Length (mm)	200	250	300	400	500	600	700	800	900	1000
Weight (kg)	1.8	2.1	2.2	2.4	2.6	2.8	3.1	3.3	3.5	3.7
Spring loaded shaft	X	O	O	O	O	O	O	O	O	O

- Conveyor frame inside dimension and frame hole shape vary by the manufacturer.
- A gap of 2-5mm is required between the frame inside dimension and Power Moller.

Product Designation :

PM500BS - 10 - 300 - 3 - 200 - BR

Power Moller model Nominal Tube Speed Length Voltage Options

Motor type : BS / BU

Nominal Speed : 5,10,15,20,30,40,50 (50 is only for PM500BS)

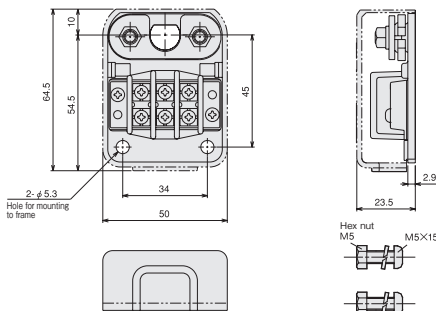
Tube Length : Specify in mm.

Voltage : 3ph-200V / 1ph-100V etc.

Please inquire for other voltage.

Options : Each of the following optional specification may be selected.

Terminal Bracket : No.A-200-S



*Drawing data can be downloaded from our web page.

- In the case of water-proof or drip-proof specification, No.C-001-BD is the standard accessory.
- In order to secure the output shaft, fasten the nut on the right-hand side first.
- Apply 6Nm torque for securing the Power Moller mounting shaft, and 3.5Nm for securing the bracket.

Options : PM500BS / PM500BU



Rubber Laggings - NR, UR, NB, CR

Natural rubber, Urethane, NBR, Neoprene

P.149



Built-In Brake - BR

250mm

 300mm \leq

P.150~

Water Proof^{**1}

260mm

 260mm \leq

P.152

Drip Proof^{**2}

200mm

 250mm \leq

P.153

*¹ Available nominal speed is 5~30. But available nominal speed is different for single-phase 100V specification. Torque value may be reduced by nominal speed. Inquire with us for more detail.*² Available nominal speed is restricted for single-phase 100V specification. Because torque may be reduced by nominal speed, please inquire us for detail.

■ For other specification, refer to P.155.

■ PM500BU built-in brake, water-proof or drip-proof specification cannot be produced.

Accumulation (AU) type cannot used with an inverter.
Reduced transfer torque or unstable operation is possible.

Operating characteristics : PM500BS

3ph 200V/50Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	4.2	12.8	73.2	0.32	1.83					
10	8.8	7.2	42.4	0.18	1.06	0.07	0.07	0.08	1.6	12.5
15	14.0	4.8	26.8	0.12	0.67					
20	17.7	9.6	30.8	0.24	0.77					
30	27.9	6.0	19.6	0.15	0.49	0.05	0.05	0.11	4.7	11.8
40	33.9	4.8	16.0	0.12	0.40					
50	44.0	4.0	12.4	0.10	0.31					

3ph 200V/60Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	5.1	10.4	62.8	0.26	1.57					
10	10.6	6.0	36.4	0.15	0.91	0.06	0.06	0.08	1.7	10.2
15	16.8	4.0	22.8	0.10	0.57					
20	21.3	7.6	24.4	0.19	0.61					
30	33.6	4.8	15.6	0.12	0.39	0.04	0.05	0.11	4.4	10.8
40	40.8	4.0	12.8	0.10	0.32					
50	53.0	3.2	10.0	0.08	0.25					

1ph 100V/50Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	4.2	11.2	28.8	0.28	0.72					
10	8.8	6.8	17.2	0.17	0.43	0.14	0.15	0.17	1.5	12.4
15	14.0	4.4	10.8	0.11	0.27					
20	17.7	16.8	14.4	0.42	0.36					
30	27.9	10.8	9.2	0.27	0.23	0.14	0.17	0.30	6.4	15.9
40	33.9	8.8	7.6	0.22	0.19					
50	44.0	6.8	6.0	0.17	0.15					

1ph 100V/60Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	5.1	11.2	28.8	0.28	0.72					
10	10.6	6.8	17.2	0.17	0.43	0.13	0.14	0.17	1.9	12.1
15	16.8	4.4	10.8	0.11	0.27					
20	21.3	13.2	14.0	0.33	0.35					
30	33.6	8.4	8.8	0.21	0.22	0.11	0.17	0.30	6.1	16.3
40	40.8	6.8	7.2	0.17	0.18					
50	53.0	5.2	5.6	0.13	0.14					

■ Please inquire for other voltage.

■ Rated speed shown is when loaded. The value at no load, light load and overload varies. Select a right one by referring to "Caution for Design".

Operating characteristics : PM500BU

3ph 200V/50Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	3.8	13.6	61.6	0.34	1.54	0.07	0.07	0.07	1.4	15.0
10	8.0	8.0	36.8	0.20	0.92					
15	12.6	5.2	23.2	0.13	0.58					
20	16.6	6.0	20.4	0.15	0.51	0.03	0.03	0.05	2.0	7.0
30	26.2	3.6	12.8	0.09	0.32					
40	31.9	3.2	10.8	0.08	0.27					

3ph 200V/60Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	4.6	11.2	54.0	0.28	1.35	0.06	0.06	0.07	1.5	12.0
10	9.6	6.8	32.0	0.17	0.80					
15	15.1	4.4	20.4	0.11	0.51					
20	20.0	4.4	17.6	0.11	0.44	0.03	0.03	0.05	1.9	6.5
30	31.5	2.8	11.2	0.07	0.28					
40	38.3	2.4	9.2	0.06	0.23					

- Please inquire for other voltage.
- Rated speed shown is when loaded. The value at no load, light load and overload varies. Select a right one by referring to "Caution for Design".