

Minimum
tube lengthSpring
loaded shaft

MDR Brushless DC Motor Integral motor driver type PM570XE/PM570XP

Roller diameter $\varnothing 57$ Roller diameter $\varnothing 57$ **PM570XE**

(Standard type)

PM570XP

(High power type)

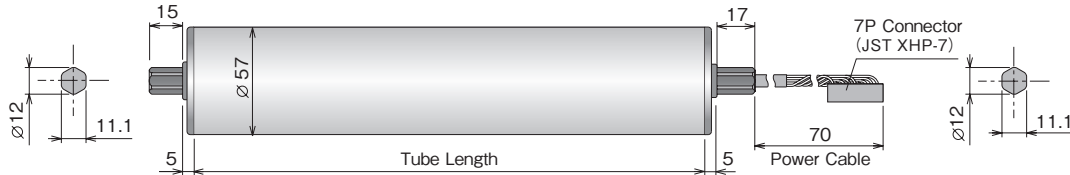
- Roller diameter / $\varnothing 57$
- Thickness / t1.5
- Voltage / 24V DC
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing

Product Designation :

PM570XE - 17 - 400 - D - 024 - C007 - NN - VG

Power Moller model Nominal Speed Tube Length Voltage Cable Input/Output Signal Options

- Motor type : XE/XP
- Nominal Speed : 17,30,60,100
- Tube Length : Specify in mm.
- Voltage : D-024 (24VDC)
- Input / Output Signal : NN-NPN input-output / NP-NPN input, PNP output
- *Drip proof and 5P metal connector specification does not require designation. Leave this position blank.
- Type and length of the power cable
- Each of the following optional specification may be selected.

Cable
Options

Tube Length : PM570XE/PM570XP

 350mm	 ≥ 350 mm						
Tube Length (mm)	400	500	600	700	800	900	1000
Weight (kg)	3.4	3.6	3.8	4.0	4.2	4.4	4.6
Spring loaded shaft	☐	☐	☐	☐	☐	☐	☐

- 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.

Options : PM570XE/PM570XP



Rubber Laggings - NR, UR, NB, CR

Natural rubber, Urethane, NBR, Neoprene



DR Drip Proof

 350mm ≥ 350 mm

VG Poly V-Belt Pulley

 350mm ≥ 350 mm

VP V-Belt Pulley

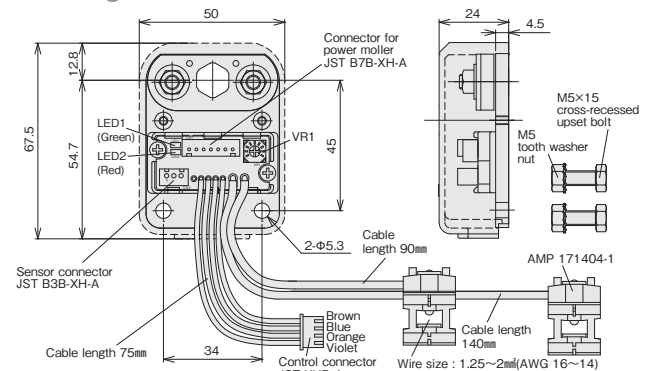
 350mm ≥ 350 mmP2 Double Grooved Tube ^{*1} 400mm ≥ 400 mm

JD

Both-end D-shaped shaft

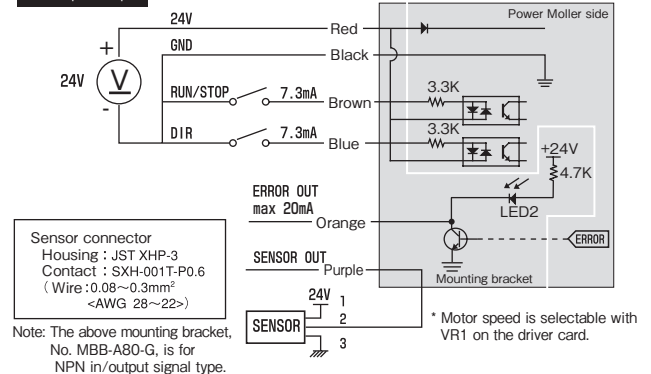
^{*1} Up to 800mm can be produced.

Mounting Bracket : No.MBB-A80-G

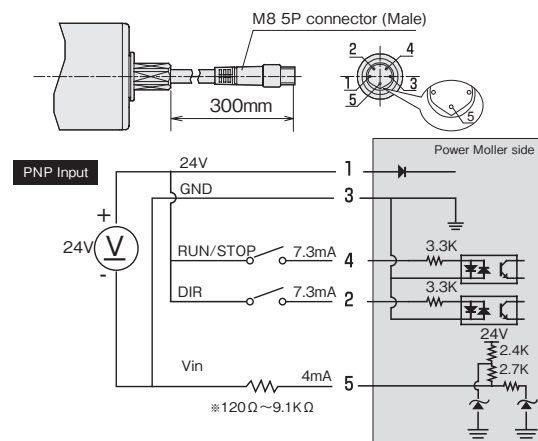


- Attach to the power cable side.
- Apply 6~10Nm torque for securing the Power Moller mounting shaft, and 3.1Nm* for securing the bracket.
- *If case of using a Phillips screwdriver, the required torque is 3.5Nm.

NPN Input/Output



Dripproof option/M8 5P connector cable



*Attach to the power cable side.

Apply 6~10Nm torque for securing the Power Moller mounting shaft, and 3.1Nm for securing the bracket.

*If case of using a Phillips screwdriver, the required torque is 3.5Nm.

* Speed setting is available by inputting external voltage instead of an external register.

* Connect each plugs carefully when wiring.

* Incorrect wiring could result in malfunction and/or damage on other devices.

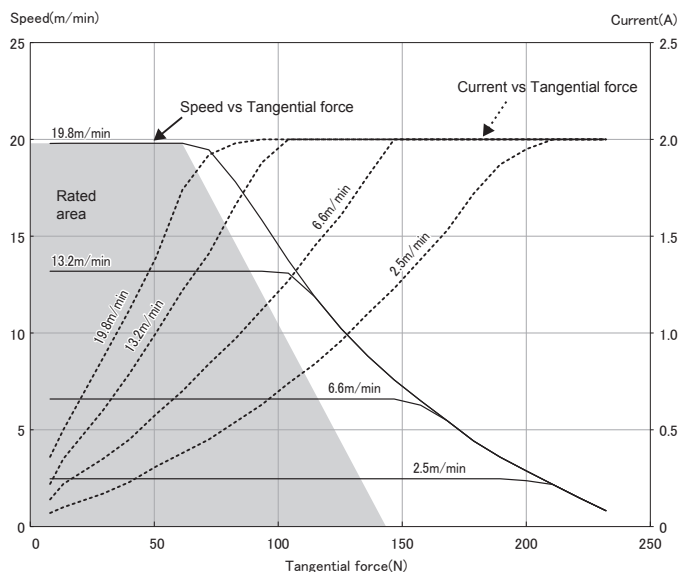
* Optional mounting bracket for IP66 is No. MBD-081-D.

 [MDR Selection Tool] is available on our web page.

Operating characteristics : PM570XE

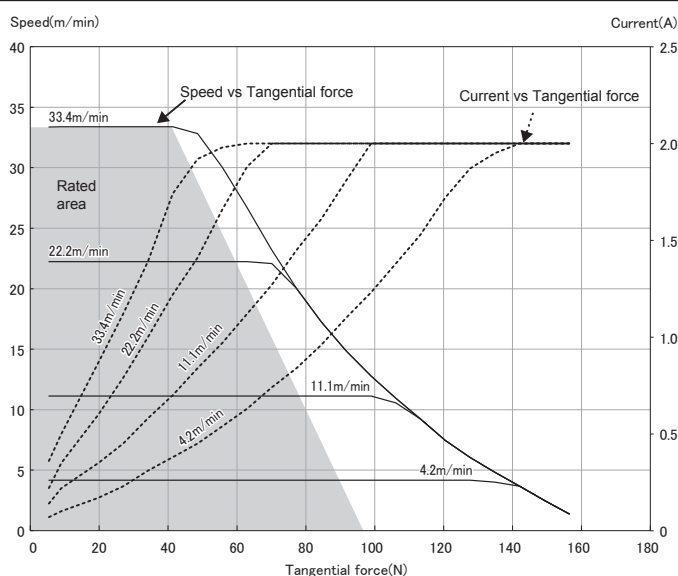
PM507XE-17

Speed (m/min)	Tangential Force(N)	Input Current (A)	Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
No-load	Rated	Starting	No-load	Starting		
19.8	61	0.5	31	42	9.1K or over or open	9.3~10
18.1	67	0.5	30	42	6.2K	8.5 $\pm$ 0.2
14.8	80	0.4	30	42	4.3K	7.5 $\pm$ 0.2
13.2	85	0.4	28	41	3.3K	6.5 $\pm$ 0.2
11.5	93	0.3	27	40	2.2K	5.5 $\pm$ 0.2
9.9	99	0.3	23	36	1.8K	4.5 $\pm$ 0.2
6.6	115	0.3	17	30	1.2K	3.5 $\pm$ 0.2
4.9	123	0.2	14	29	750	2.5 $\pm$ 0.2
3.3	128	0.2	10	26	430	1.5 $\pm$ 0.2
2.5	133	0.2	8	23	120 or less of short	0~0.9



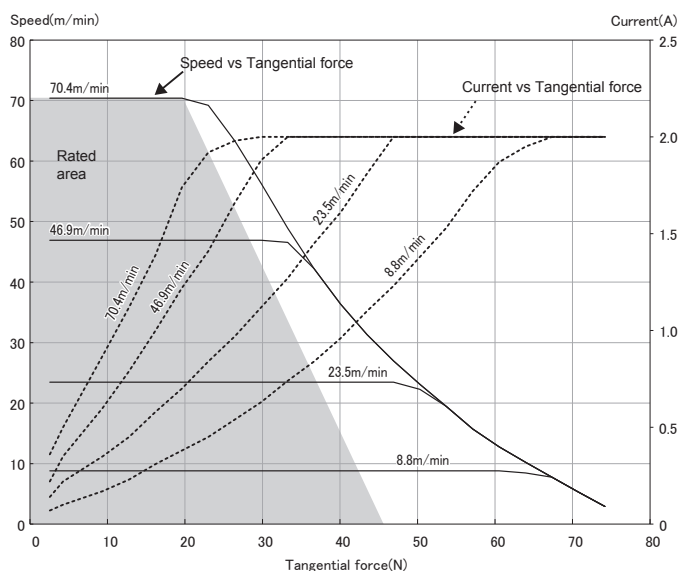
PM570XE-30

Speed (m/min)	Tangential Force(N)	Input Current (A)	Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
No-load	Rated	Starting	No-load	Starting		
33.4	41	0.5	31	42	9.1K or over or open	9.3~10
30.6	45	0.5	30	42	6.2K	8.5 $\pm$ 0.2
25.0	54	0.4	30	42	4.3K	7.5 $\pm$ 0.2
22.2	58	0.4	28	41	3.3K	6.5 $\pm$ 0.2
19.5	63	0.3	27	40	2.2K	5.5 $\pm$ 0.2
16.7	67	0.3	23	36	1.8K	4.5 $\pm$ 0.2
11.1	77	0.3	17	30	1.2K	3.5 $\pm$ 0.2
8.3	83	0.2	14	29	750	2.5 $\pm$ 0.2
5.6	86	0.2	10	26	430	1.5 $\pm$ 0.2
4.2	90	0.2	8	23	120 or less of short	0~0.9



PM570XE-60

Speed (m/min)	Tangential Force(N)	Input Current (A)	Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
No-load	Rated	Starting	No-load	Starting		
70.4	20	0.5	31	42	9.1K or over or open	9.3~10
64.5	21	0.5	30	42	6.2K	8.5 $\pm$ 0.2
52.8	26	0.4	30	42	4.3K	7.5 $\pm$ 0.2
46.9	27	0.4	28	41	3.3K	6.5 $\pm$ 0.2
41.1	30	0.3	27	40	2.2K	5.5 $\pm$ 0.2
35.2	32	0.3	23	36	1.8K	4.5 $\pm$ 0.2
23.5	37	0.3	17	30	1.2K	3.5 $\pm$ 0.2
17.6	39	0.2	14	29	750	2.5 $\pm$ 0.2
11.7	41	0.2	10	26	430	1.5 $\pm$ 0.2
8.8	43	0.2	8	23	120 or less of short	0~0.9

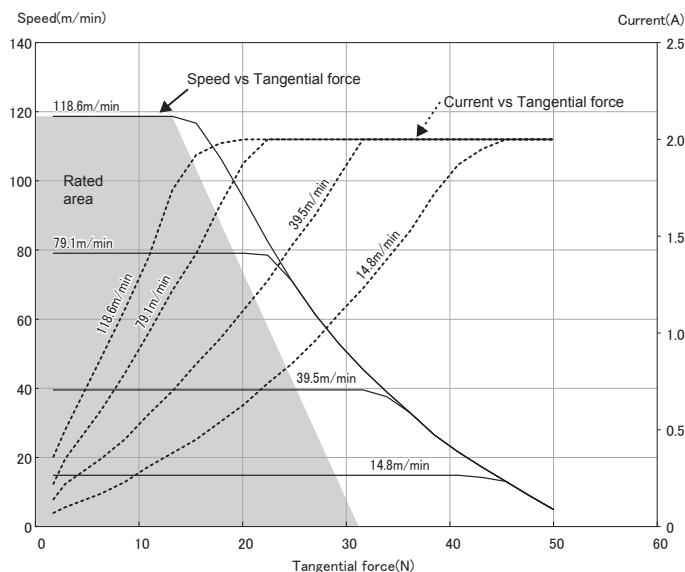


 [MDR Selection Tool] is available on our web page.

Operating characteristics : PM570XE

PM570XE-100

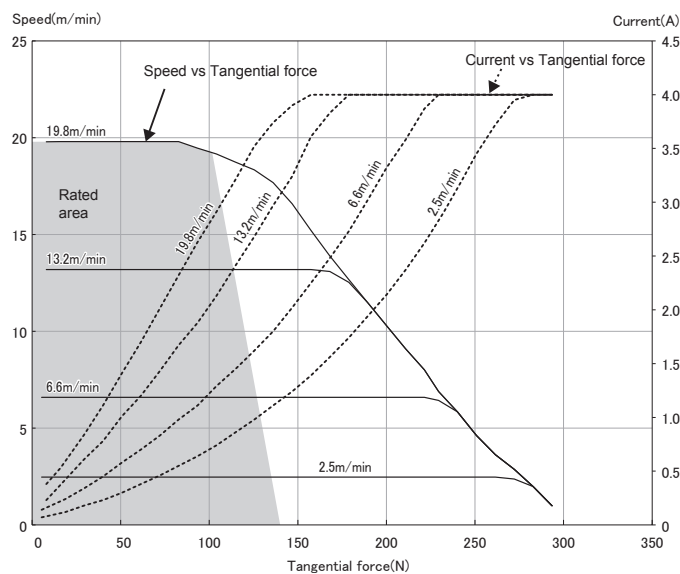
Speed (m/min)	Tangential Force(N)	Input Current (A)	Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
No-load	Rated	Starting	No-load	Starting		
118.6	13	0.5	31	42	9.1K or over or open	9.3~10
108.8	14	0.5	30	42	6.2K	8.5 $\pm$ 0.2
89.0	17	0.4	30	42	4.3K	7.5 $\pm$ 0.2
79.1	18	0.4	28	41	3.3K	6.5 $\pm$ 0.2
69.2	20	0.3	27	40	2.2K	5.5 $\pm$ 0.2
59.3	21	0.3	23	36	1.8K	4.5 $\pm$ 0.2
39.5	25	0.3	17	30	1.2K	3.5 $\pm$ 0.2
29.7	26	0.2	14	29	750	2.5 $\pm$ 0.2
19.8	28	0.2	10	26	430	1.5 $\pm$ 0.2
14.8	29	0.2	8	23	120 or less of short	0~0.9



Operating characteristics : PM570XP

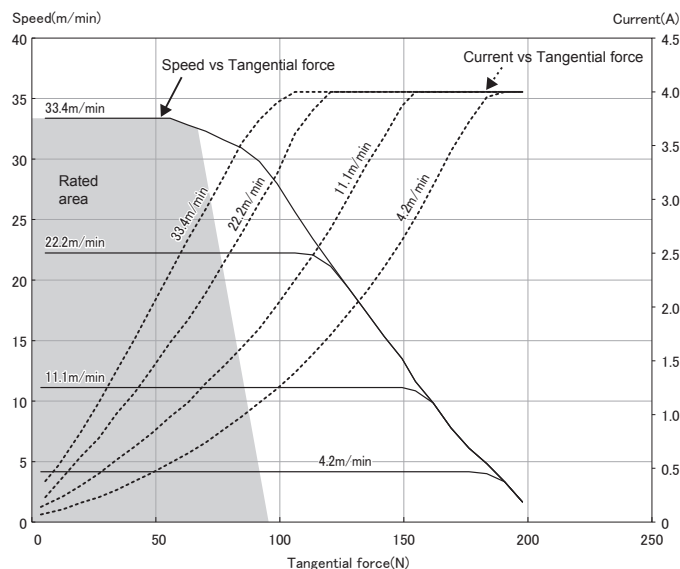
PM570XP-17

Speed (m/min)	Tangential Force(N)	Input Current (A)	Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
No-load	Rated	Starting	No-load	Starting		
19.8	101	0.5	46	63	9.1K or over or open	9.3~10
18.1	104	0.5	43	59	6.2K	8.5 $\pm$ 0.2
14.8	109	0.4	39	56	4.3K	7.5 $\pm$ 0.2
13.2	112	0.4	35	51	3.3K	6.5 $\pm$ 0.2
11.5	117	0.3	30	46	2.2K	5.5 $\pm$ 0.2
9.9	120	0.3	29	42	1.8K	4.5 $\pm$ 0.2
6.6	128	0.3	19	35	1.2K	3.5 $\pm$ 0.2
4.9	131	0.2	14	29	750	2.5 $\pm$ 0.2
3.3	133	0.2	10	26	430	1.5 $\pm$ 0.2
2.5	136	0.2	8	23	120 or less of short	0~0.9



PM570XP-30

Speed (m/min)	Tangential Force(N)	Input Current (A)	Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
No-load	Rated	Starting	No-load	Starting		
33.4	68	0.5	46	63	9.1K or over or open	9.3~10
30.6	70	0.5	43	59	6.2K	8.5 $\pm$ 0.2
25.0	74	0.4	39	56	4.3K	7.5 $\pm$ 0.2
22.2	76	0.4	35	51	3.3K	6.5 $\pm$ 0.2
19.5	79	0.3	30	46	2.2K	5.5 $\pm$ 0.2
16.7	81	0.3	29	42	1.8K	4.5 $\pm$ 0.2
11.1	86	0.3	19	35	1.2K	3.5 $\pm$ 0.2
8.3	88	0.2	14	29	750	2.5 $\pm$ 0.2
5.6	90	0.2	10	26	430	1.5 $\pm$ 0.2
4.2	92	0.2	8	23	120 or less of short	0~0.9

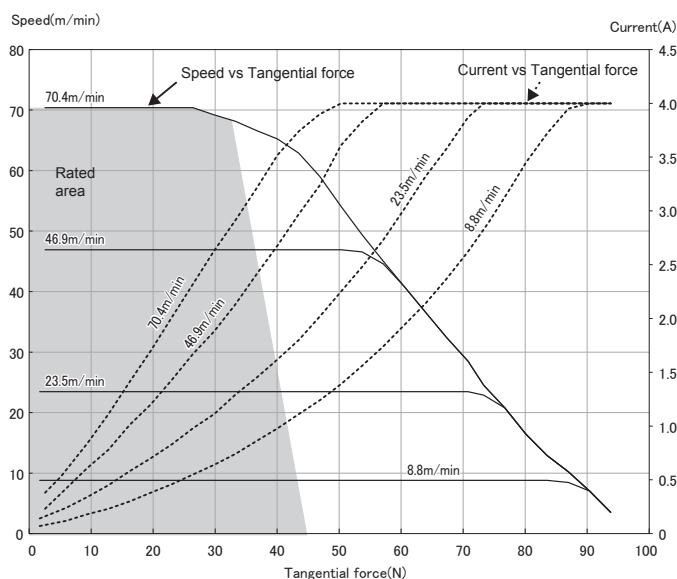


 [MDR Selection Tool] is available on our web page.

Operating characteristics : PM570XP

PM570XP-60

Speed (m/min)	Tangential Force(N)	Input Current (A)	Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
No-load	Rated	Starting	No-load	Starting		
70.4	32	0.5	46	63	9.1K or over or open	9.3~10
64.5	33	0.5	43	59	6.2K	8.5 $\pm$ 0.2
52.8	35	0.4	39	56	4.3K	7.5 $\pm$ 0.2
46.9	36	0.4	35	51	3.3K	6.5 $\pm$ 0.2
41.1	38	0.3	30	46	2.2K	5.5 $\pm$ 0.2
35.2	38	0.3	29	42	1.8K	4.5 $\pm$ 0.2
23.5	41	0.3	19	35	1.2K	3.5 $\pm$ 0.2
17.6	42	0.2	14	29	750	2.5 $\pm$ 0.2
11.7	43	0.2	10	26	430	1.5 $\pm$ 0.2
8.8	43	0.2	8	23	120 or less of short	0~0.9



PM570XP-100

Speed (m/min)	Tangential Force(N)	Input Current (A)	Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
No-load	Rated	Starting	No-load	Starting		
118.6	22	0.5	46	63	9.1K or over or open	9.3~10
108.8	22	0.5	43	59	6.2K	8.5 $\pm$ 0.2
89.0	24	0.4	39	56	4.3K	7.5 $\pm$ 0.2
79.1	24	0.4	35	51	3.3K	6.5 $\pm$ 0.2
69.2	25	0.3	30	46	2.2K	5.5 $\pm$ 0.2
59.3	26	0.3	29	42	1.8K	4.5 $\pm$ 0.2
39.5	28	0.3	19	35	1.2K	3.5 $\pm$ 0.2
29.7	28	0.2	14	29	750	2.5 $\pm$ 0.2
19.8	29	0.2	10	26	430	1.5 $\pm$ 0.2
14.8	29	0.2	8	23	120 or less of short	0~0.9

