



Minimum tube length



Spring 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
XE/XP	17,30,60,100	Specify in mm.	D-024 (24VDC)	NN-NPN input-output / NP-NPN input, PNP output	

Motor type : XE/XP

Nominal Speed : 17,30,60,100

Tube Length : Specify in mm.

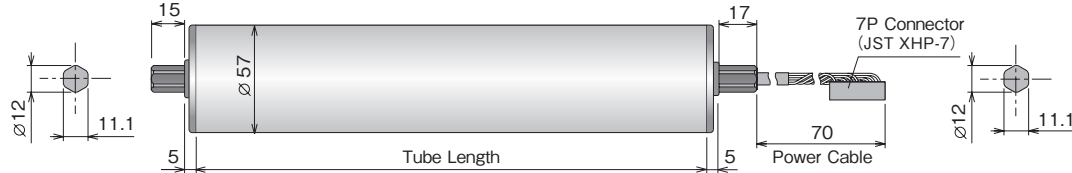
Voltage : D-024 (24VDC)

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.



Tube Length : PM570XE/PM570XP



350mm



350mm \leq

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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- 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



350mm \leq



VG Poly V-Belt Pulley



350mm



350mm \leq



VP V-Belt Pulley



350mm



350mm \leq



P2 Double Grooved Tube ^{※1}



400mm



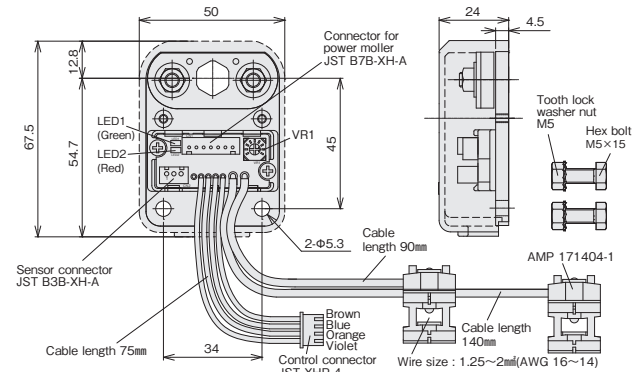
400mm \leq

JD

Both-end D-shaped shaft

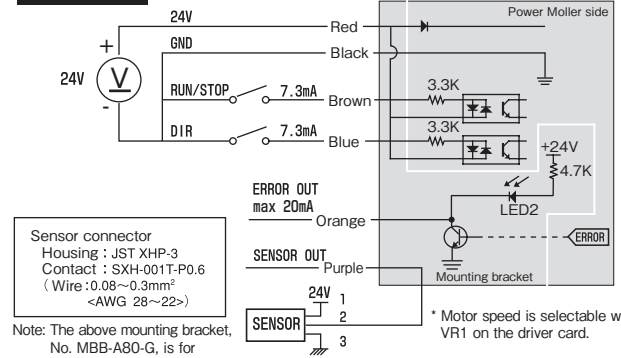
※1 Up to 800mm can be produced.

Mounting Bracket : No.MBB-A80-G

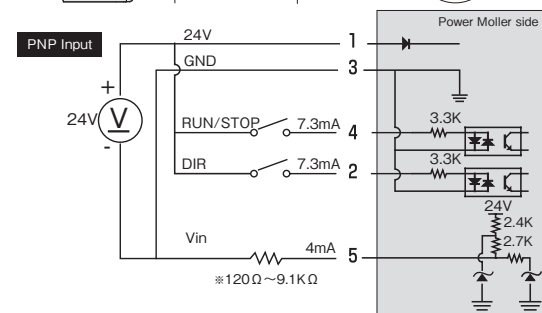
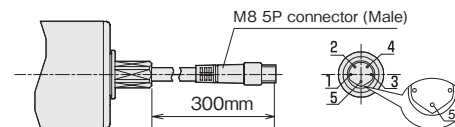


- Attach to the power cable side.
- Apply 6~10Nm torque for securing the Power Moller mounting shaft, and 3.5Nm for securing the bracket.

NPN Input/Output




Driproof option/M8 5P connector cable



- *Attach to the power cable side.
- *Apply 6~10Nm torque for securing the Power Moller mounting shaft, and 3.5Nm for securing the bracket.

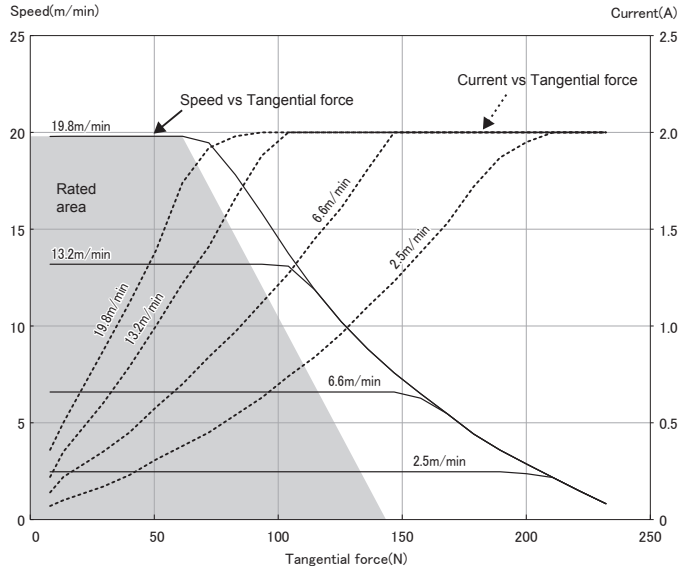
- * Speed setting is available by inputting external voltage instead of an external register.
- * Connect each plugs carefully when wiring.
- * Incorrect wiring could result in malfunction and/or damage on other devices.
- * Optional mounting bracket for IP66 is No. MBD-081-D.

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

Operating characteristics : PM570XE

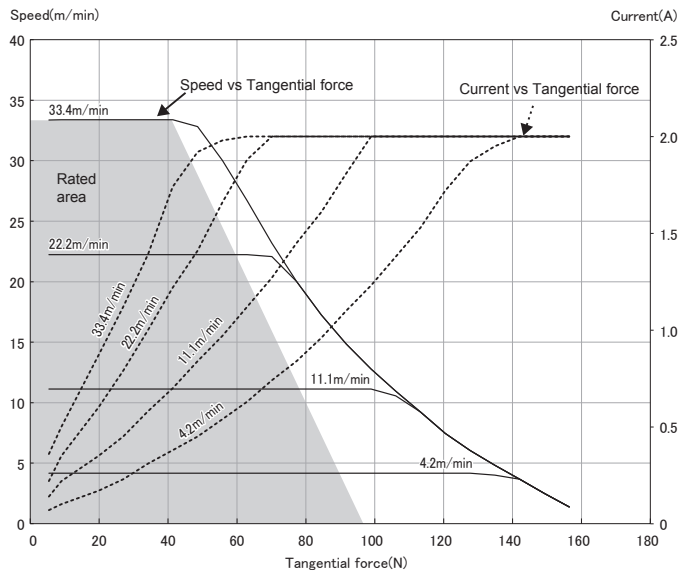
PM570XE-17

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				
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	232	0.3	2.0	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



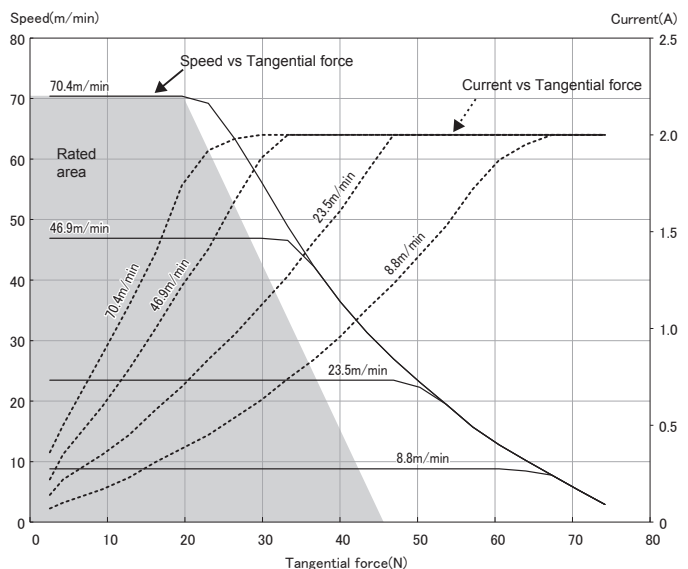
PM570XE-30

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				
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	156	0.3	2.0	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				
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	74	0.3	2.0	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



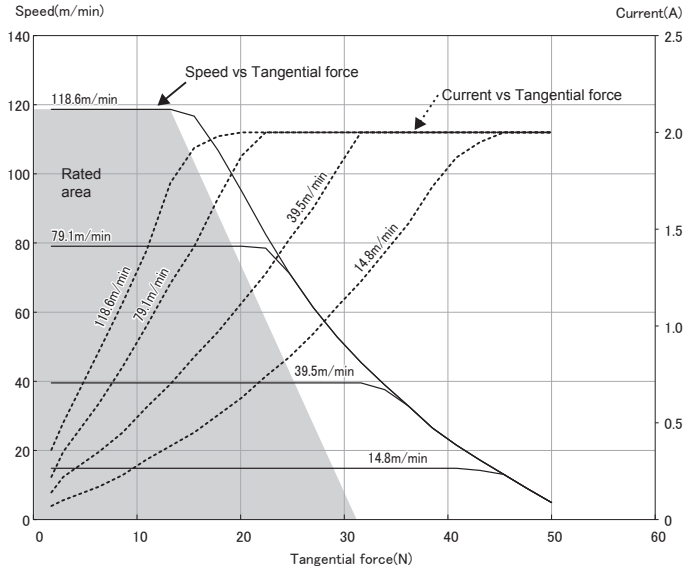
* The values in the characteristics list are when an ambient temperature is 25 degree C, and only for your reference and not the warranted values. The values represent the characteristics of a single standard motor roller (no linked operation) without including other specifications, and the values may change when including other specifications or with linked operation.

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

Operating characteristics : PM570XE

PM570XE-100

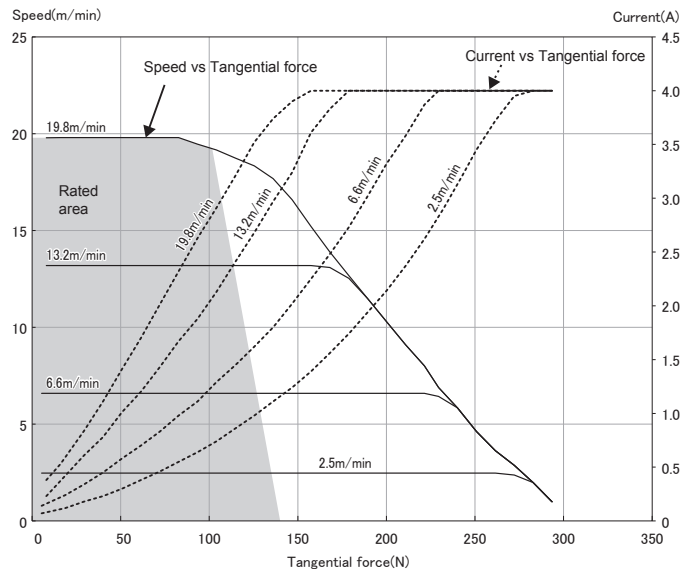
Speed (m/min)	Tangential Force(N)		Input Current (A)		Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
	No-load	Rated	No-load	Starting				
118.6	13		0.5		31	42	9.1K or over or open	9.3~10
108.8	14		0.5		30	42	6.2K	8.5 \pm 0.2
89.0	17		0.4		30	42	4.3K	7.5 \pm 0.2
79.1	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	50	0.3	2.0	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

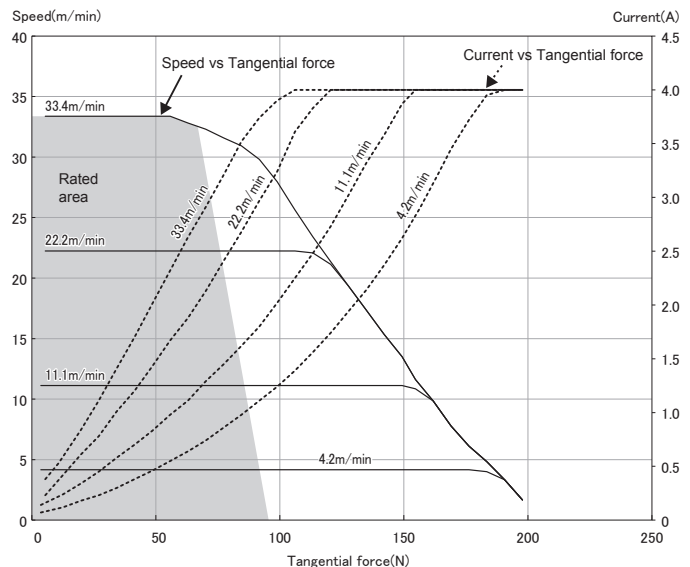
PM570XP-17

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	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	299	0.3	4.0	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	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	201	0.3	4.0	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



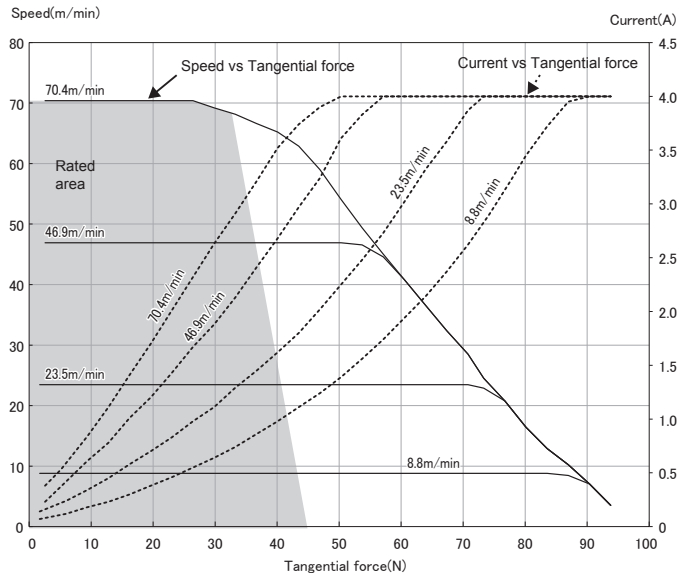
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 [MDR Selection Tool] is available on our web page.

Operating characteristics : PM570XP

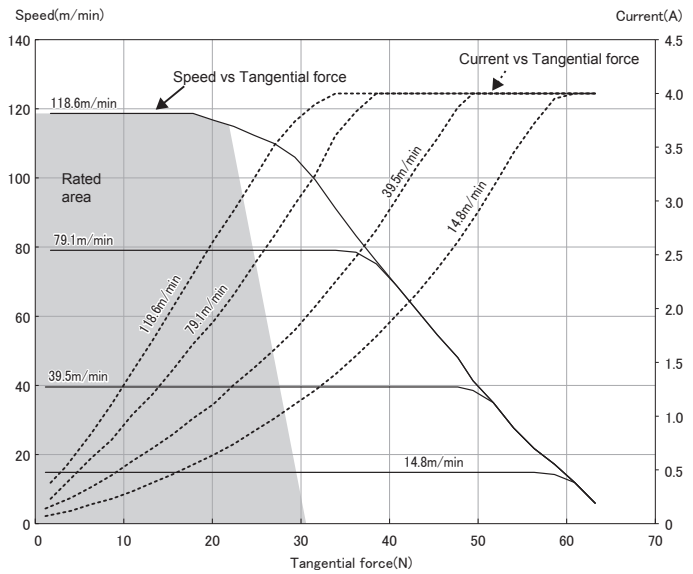
PM570XP-60

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	No-load	Starting				
70.4	32	95	0.5	4.0	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	No-load	Starting				
118.6	22	64	0.5	4.0	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



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