

Minimum
tube lengthSpring
loaded shaft

MDR Brushless DC Motor Integral motor driver type PM605XE/PM605XP

Roller diameter $\varnothing 60.5$ Roller diameter $\varnothing 60.5$ **PM605XE**

(Standard type)

PM605XP

(High power type)

- Roller diameter / $\varnothing 60.5$
- Thickness / t3.2
- Voltage / 24V DC
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing

Product Designation :

PM605XE - 17 - 400 - D - 024 - C007 - NN - VGPower Moller Nominal Tube Voltage Cable Input/Output Options
model Speed Length Signal

Motor type : XE/XP

Nominal Speed : 17,30,60,100

Tube Length : Specify in mm.

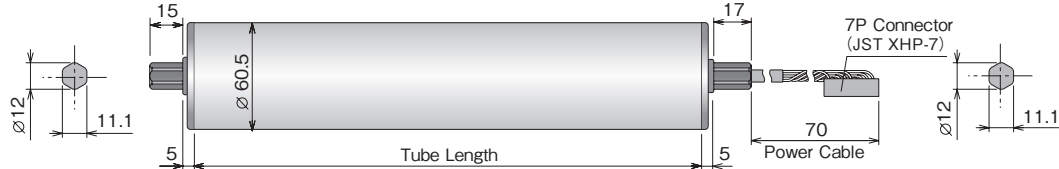
Voltage : D-024 (24VDC)

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 : PM605XE/PM605XP

 350mm	 ≥350mm						
Tube Length (mm)	400	500	600	700	800	900	1000
Weight (kg)	4.5	5.0	5.5	6.0	6.5	7.0	7.5
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 : PM605XE/PM605XP



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

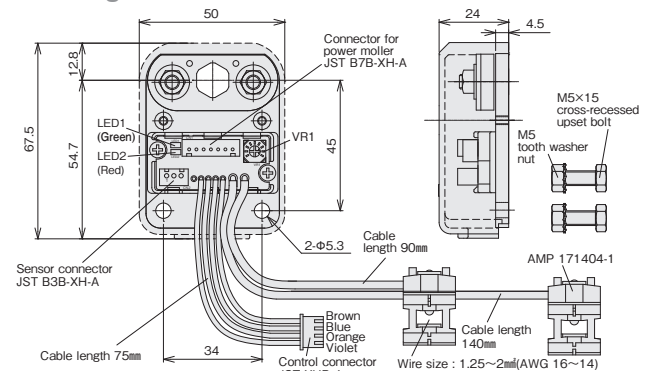
VP V-Belt Pulley

 350mm ≥ 350 mm

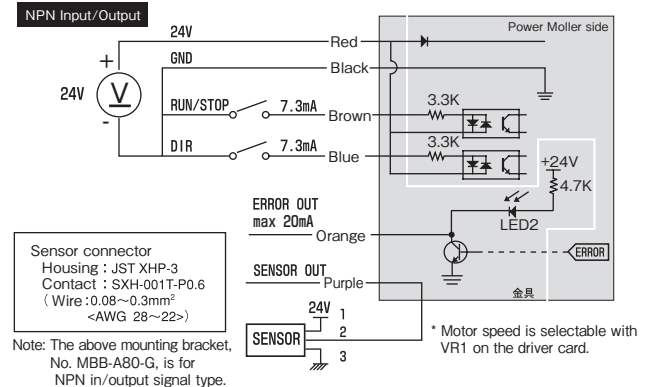
JD

Both-end D-shaped shaft

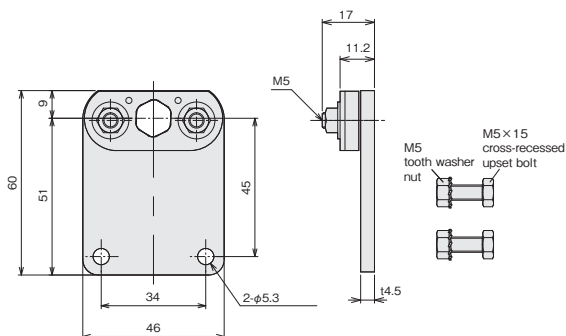
Mounting Bracket : No.MBB-A80-G



- 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.



Mounting Bracket : No.MBB-081

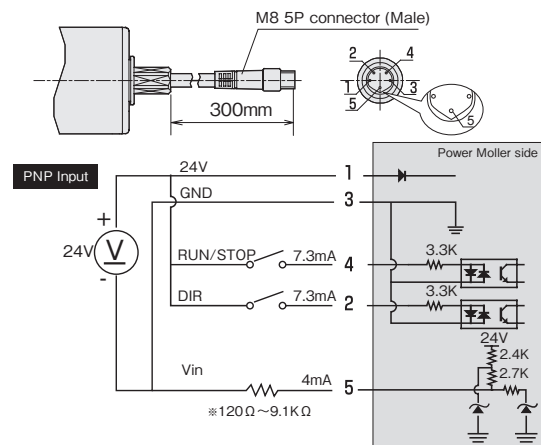


*Attach to the power cable side.

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.

Dripproof option/M8 5P connector cable

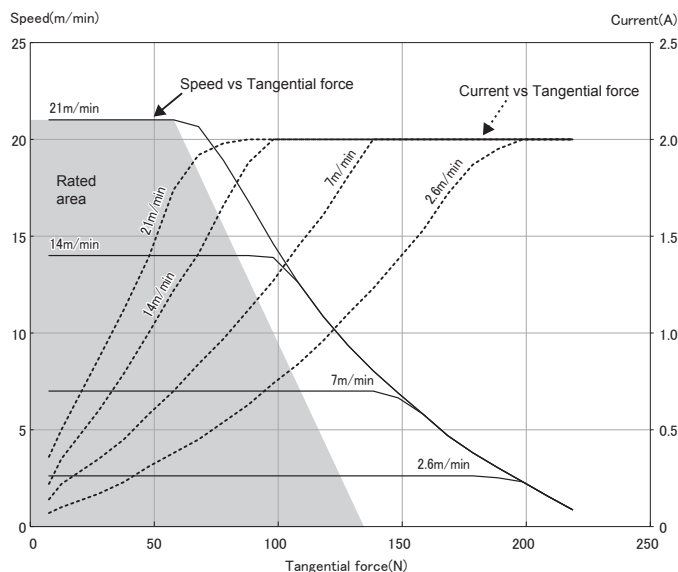


 [MDR Selection Tool] is available on our web page.

Operating characteristics : PM605XE

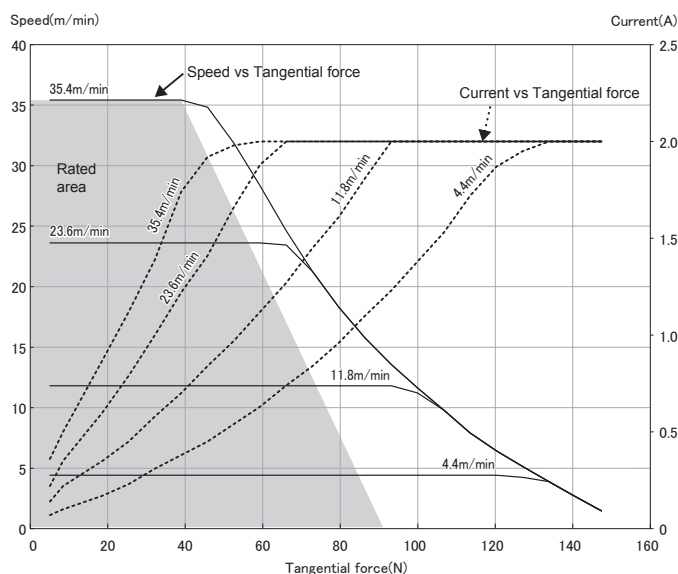
PM605XE-17

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		
21.0	58	0.5	31	42	9.1K or over or open	9.3~10
19.3	63	0.5	30	42	6.2K	8.5 $\pm$ 0.2
15.8	75	0.4	30	42	4.3K	7.5 $\pm$ 0.2
14.0	80	0.4	28	41	3.3K	6.5 $\pm$ 0.2
12.3	88	0.3	27	40	2.2K	5.5 $\pm$ 0.2
10.5	93	0.3	23	36	1.8K	4.5 $\pm$ 0.2
7.0	108	0.3	17	30	1.2K	3.5 $\pm$ 0.2
5.2	116	0.2	14	29	750	2.5 $\pm$ 0.2
3.5	121	0.2	10	26	430	1.5 $\pm$ 0.2
2.6	126	0.2	8	23	120 or less of short	0~0.9



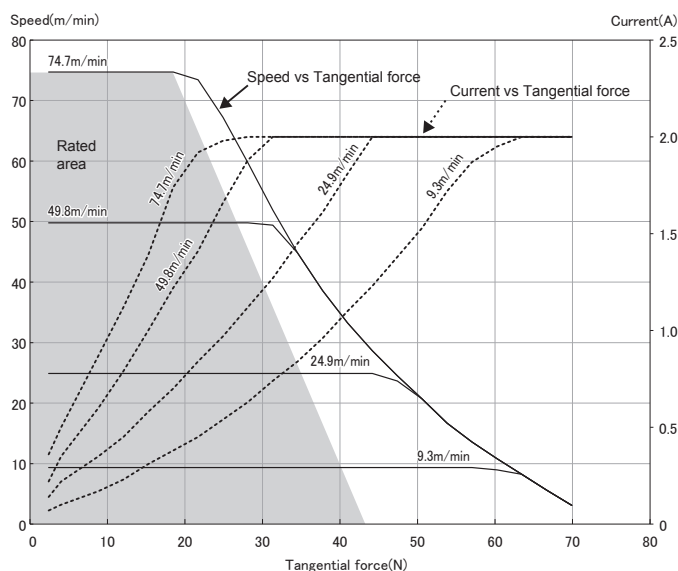
P605XE-30

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		
35.4	39	0.5	31	42	9.1K or over or open	9.3~10
32.5	42	0.5	30	42	6.2K	8.5 $\pm$ 0.2
26.6	51	0.4	30	42	4.3K	7.5 $\pm$ 0.2
23.6	54	0.4	28	41	3.3K	6.5 $\pm$ 0.2
20.7	59	0.3	27	40	2.2K	5.5 $\pm$ 0.2
17.7	63	0.3	23	36	1.8K	4.5 $\pm$ 0.2
11.8	73	0.3	17	30	1.2K	3.5 $\pm$ 0.2
8.9	78	0.2	14	29	750	2.5 $\pm$ 0.2
5.9	81	0.2	10	26	430	1.5 $\pm$ 0.2
4.4	85	0.2	8	23	120 or less of short	0~0.9



PM605XE-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		
74.7	18	0.5	31	42	9.1K or over or open	9.3~10
68.5	20	0.5	30	42	6.2K	8.5 $\pm$ 0.2
56.0	24	0.4	30	42	4.3K	7.5 $\pm$ 0.2
49.8	26	0.4	28	41	3.3K	6.5 $\pm$ 0.2
43.6	28	0.3	27	40	2.2K	5.5 $\pm$ 0.2
37.3	30	0.3	23	36	1.8K	4.5 $\pm$ 0.2
24.9	35	0.3	17	30	1.2K	3.5 $\pm$ 0.2
18.7	37	0.2	14	29	750	2.5 $\pm$ 0.2
12.4	39	0.2	10	26	430	1.5 $\pm$ 0.2
9.3	40	0.2	8	23	120 or less of short	0~0.9



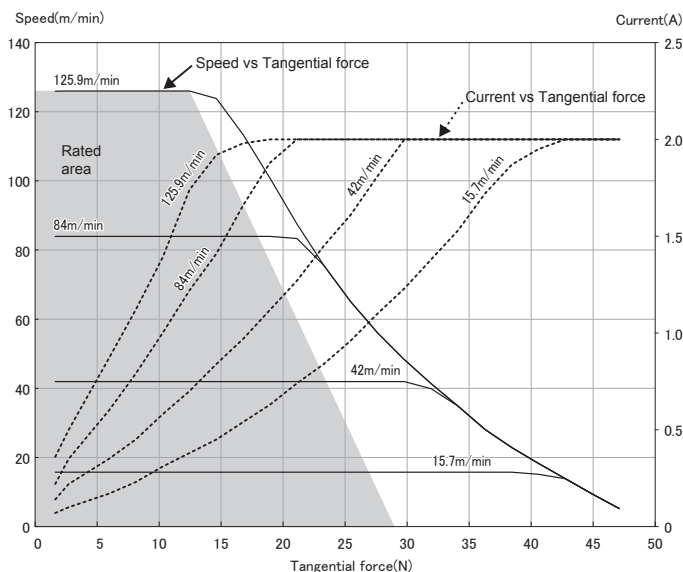
MDR Brushless DC Motor Integral motor driver type PM605XE/PM605XP Roller diameter $\varnothing 60.5$

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

Operating characteristics : PM605XE

PM605XE-100

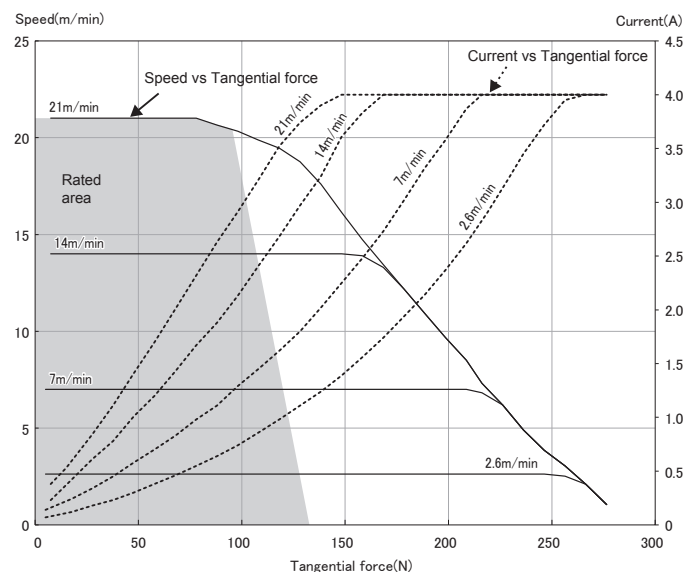
Speed (m/min)	Tangential Force(N)	Input Current (A)		Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
		No-load	Starting				
125.9	12	0.5	2.0	31	42	9.1K or over or open	9.3~10
115.4	14			30	42	6.2K	8.5 $\pm$ 0.2
94.5	16			30	42	4.3K	7.5 $\pm$ 0.2
84.0	17			28	41	3.3K	6.5 $\pm$ 0.2
73.5	19			27	40	2.2K	5.5 $\pm$ 0.2
62.9	20			23	36	1.8K	4.5 $\pm$ 0.2
42.0	23			17	30	1.2K	3.5 $\pm$ 0.2
31.5	25			14	29	750	2.5 $\pm$ 0.2
21.0	26	0.2	0.2	10	26	430	1.5 $\pm$ 0.2
15.7	27			8	23	120 or less of short	0~0.9



Operating characteristics : PM605XP

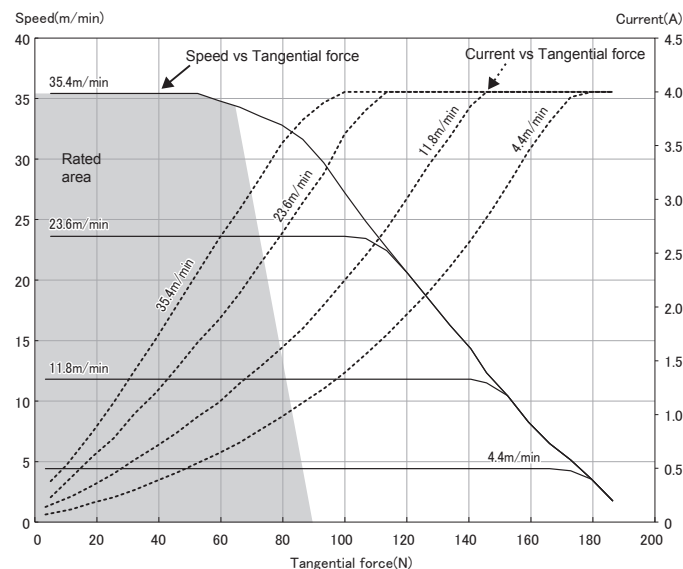
PM605XP-17

Speed (m/min)	Tangential Force(N)	Input Current (A)		Power Input (W)	Power Output (W)	External resistor (Ω)	External input voltage (V)
		No-load	Starting				
21.0	96	0.5	4.0	46	63	9.1K or over or open	9.3~10
19.3	98			43	59	6.2K	8.5 $\pm$ 0.2
15.8	103			39	56	4.3K	7.5 $\pm$ 0.2
14.0	106			35	51	3.3K	6.5 $\pm$ 0.2
12.3	111			30	46	2.2K	5.5 $\pm$ 0.2
10.5	113			29	42	1.8K	4.5 $\pm$ 0.2
7.0	121			19	35	1.2K	3.5 $\pm$ 0.2
5.2	123			14	29	750	2.5 $\pm$ 0.2
3.5	126	0.2	0.2	10	26	430	1.5 $\pm$ 0.2
2.6	128			8	23	120 or less of short	0~0.9



PM605XP-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	Starting				
35.4	64	0.5	4.0	46	63	9.1K or over or open	9.3~10
32.5	66			43	59	6.2K	8.5 $\pm$ 0.2
26.6	69			39	56	4.3K	7.5 $\pm$ 0.2
23.6	71			35	51	3.3K	6.5 $\pm$ 0.2
20.7	75			30	46	2.2K	5.5 $\pm$ 0.2
17.7	76			29	42	1.8K	4.5 $\pm$ 0.2
11.8	81			19	35	1.2K	3.5 $\pm$ 0.2
8.9	83			14	29	750	2.5 $\pm$ 0.2
5.9	85	0.2	0.2	10	26	430	1.5 $\pm$ 0.2
4.4	86			8	23	120 or less of short	0~0.9

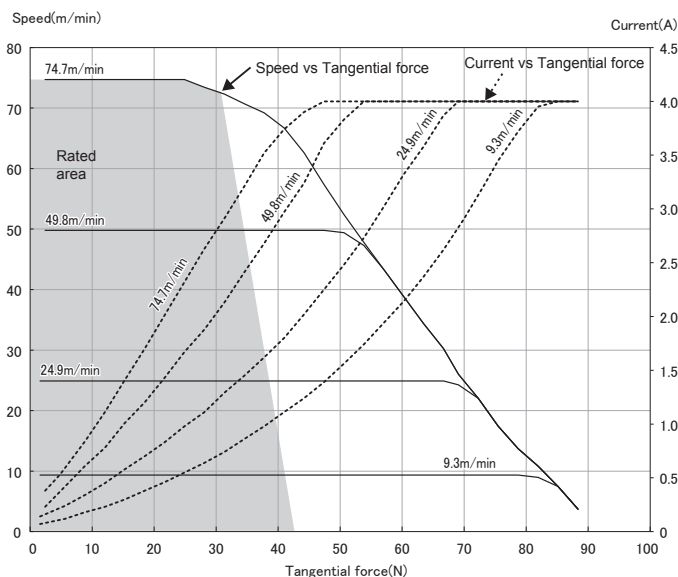


 [MDR Selection Tool] is available on our web page.

Operating characteristics : PM605XP

PM605XP-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		
74.7	31	0.5	46	63	9.1K or over or open	9.3~10
68.5	31	0.5	43	59	6.2K	8.5 $\pm$ 0.2
56.0	33	0.4	39	56	4.3K	7.5 $\pm$ 0.2
49.8	34	0.4	35	51	3.3K	6.5 $\pm$ 0.2
43.6	35	0.3	30	46	2.2K	5.5 $\pm$ 0.2
37.3	36	0.3	29	42	1.8K	4.5 $\pm$ 0.2
24.9	39	0.3	19	35	1.2K	3.5 $\pm$ 0.2
18.7	39	0.2	14	29	750	2.5 $\pm$ 0.2
12.4	40	0.2	10	26	430	1.5 $\pm$ 0.2
9.3	41	0.2	8	23	120 or less of short	0~0.9



PM605XP-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		
125.9	21	0.5	46	63	9.1K or over or open	9.3~10
115.4	21	0.5	43	59	6.2K	8.5 $\pm$ 0.2
94.5	22	0.4	39	56	4.3K	7.5 $\pm$ 0.2
84.0	23	0.4	35	51	3.3K	6.5 $\pm$ 0.2
73.5	24	0.3	30	46	2.2K	5.5 $\pm$ 0.2
62.9	24	0.3	29	42	1.8K	4.5 $\pm$ 0.2
42.0	26	0.3	19	35	1.2K	3.5 $\pm$ 0.2
31.5	27	0.2	14	29	750	2.5 $\pm$ 0.2
21.0	27	0.2	10	26	430	1.5 $\pm$ 0.2
15.7	28	0.2	8	23	120 or less of short	0~0.9

