

Minimum
tube lengthSpring
loaded shaft

MDR Brushless DC Motor Integral motor driver type PM486XE/PM486XP

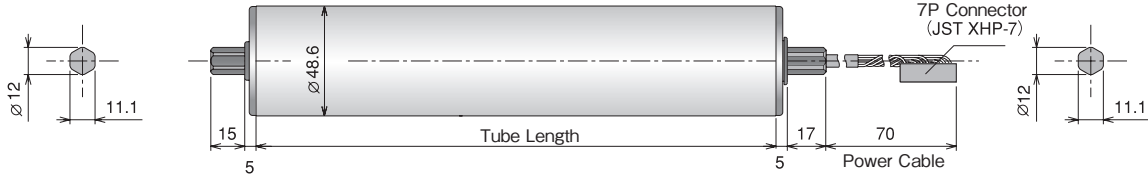
Roller diameter $\varnothing 48.6$ Roller diameter $\varnothing 48.6$
PM486XE
PM486XP

- Roller diameter / $\varnothing 48.6$
- Thickness / $t1.4$
- Voltage / 24V DC
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing

Product Designation :

PM486XE - 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 | | | | | |
| Cable Options | *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 : PM486XE/PM486XP

	350mm	350mm	350mm	350mm	350mm	350mm	350mm
Tube Length (mm)	400	500	600	700	800	900	1000
Weight (kg)	2.9	3.1	3.2	3.4	3.5	3.7	3.8
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 : PM486XE/PM486XP

**RUBBER LAGGINGS - NR, UR, NB, CR**

Natural rubber, Urethane, NBR, Neoprene

P.66

**DRIP PROOF**

350mm 350mm

P.68

**Poly V-Belt Pulley**

350mm 350mm

P.70

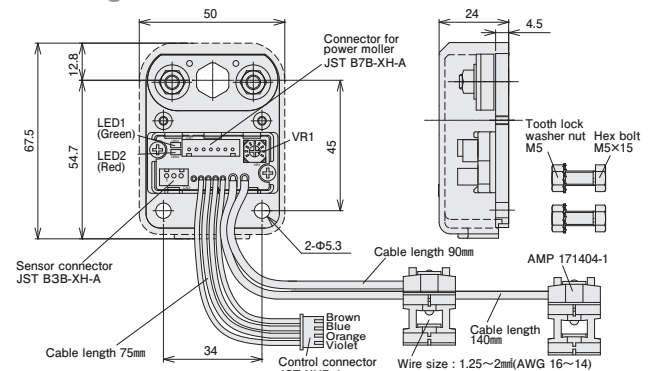
**Double Grooved Tube^{*1}**

400mm 400mm

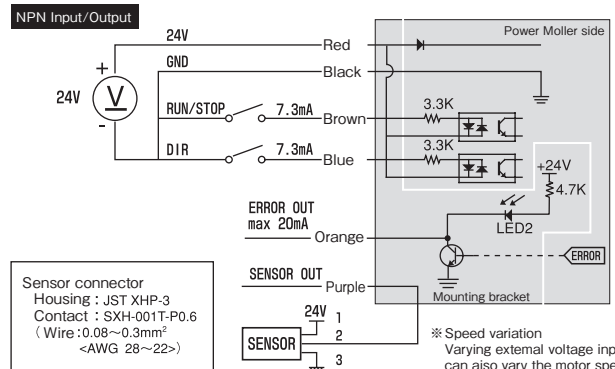
P.72

JD**Both-end D-shaped shaft**^{*1} Up to 800mm can be produced.

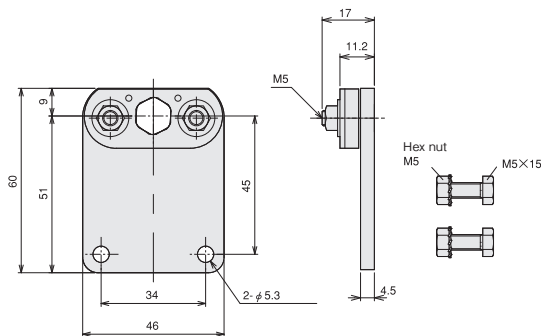
For other specification, refer to P.73.

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.



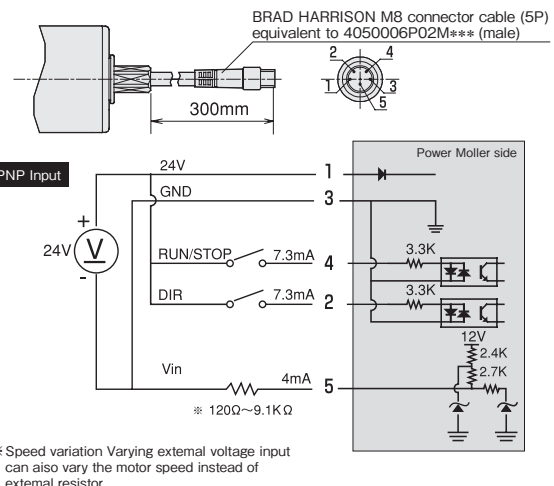
Mounting Bracket : No.MBB-081



*Attach to the power cable side.

Apply 6~10Nm torque for securing the Power Moller mounting shaft, and 3.5Nm for securing the bracket.

Dripproof option/M8 5P connector cable



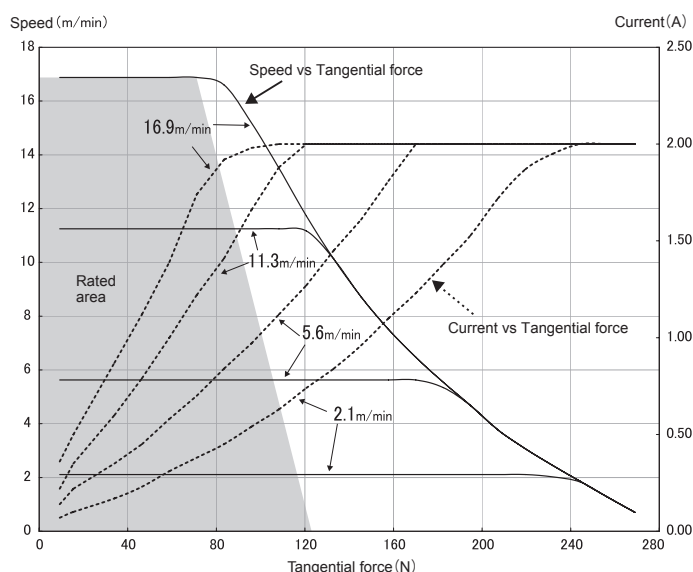
 [MDR Selection Tool] is available on our web page.

Operating characteristics : PM486XE

PM486XE-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	Rated	Starting	No-load	Starting				
16.9	16.9	72		0.5		31	41	9.1K or over or open	9.3~10 *
15.5	15.5	78		0.5		30	41	6.2K	8.5 $\pm$ 0.2
12.7	12.7	84		0.4		27	38	4.3K	7.5 $\pm$ 0.2
11.3	11.3	88		0.4		24	36	3.3K	6.5 $\pm$ 0.2
9.9	9.9	91		0.3		23	34	2.2K	5.5 $\pm$ 0.2
8.4	8.4	97		0.3		21	31	1.8K	4.5 $\pm$ 0.2
5.6	5.6	103		0.3		14	24	1.2K	3.5 $\pm$ 0.2
4.2	4.2	110		0.2		12	22	750	2.5 $\pm$ 0.2
2.8	2.8	116		0.2		8	19	430	1.5 $\pm$ 0.2
2.1	2.1	116		0.2		6	17	120 or less or short	0~0.9

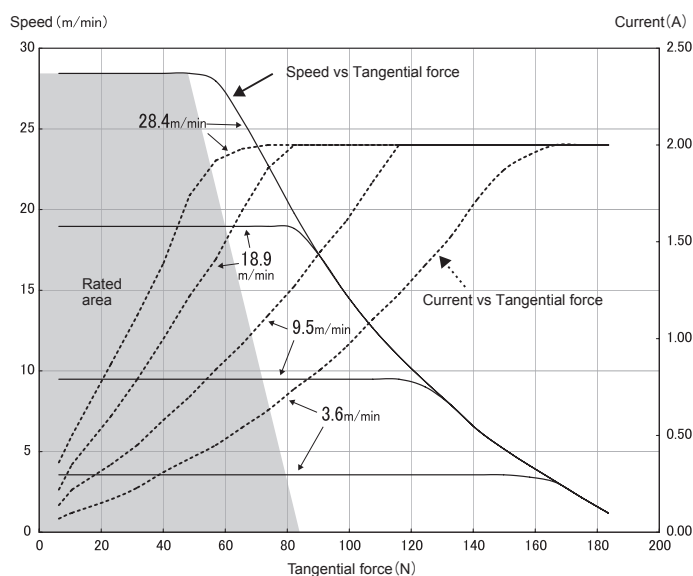
*9.3~10 or No input Voltage



PM486XE-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	Rated	Starting	No-load	Starting				
28.4	28.4	49		0.5		31	41	9.1K or over or open	9.3~10 *
26.0	26.0	53		0.5		30	41	6.2K	8.5 $\pm$ 0.2
21.3	21.3	57		0.4		27	38	4.3K	7.5 $\pm$ 0.2
18.9	18.9	60		0.4		24	36	3.3K	6.5 $\pm$ 0.2
16.6	16.6	62		0.3		23	34	2.2K	5.5 $\pm$ 0.2
14.2	14.2	67		0.3		21	31	1.8K	4.5 $\pm$ 0.2
9.5	9.5	71		0.3		14	24	1.2K	3.5 $\pm$ 0.2
7.1	7.1	75		0.2		12	22	750	2.5 $\pm$ 0.2
4.7	4.7	79		0.2		8	19	430	1.5 $\pm$ 0.2
3.6	3.6	79		0.2		6	17	120 or less or short	0~0.9

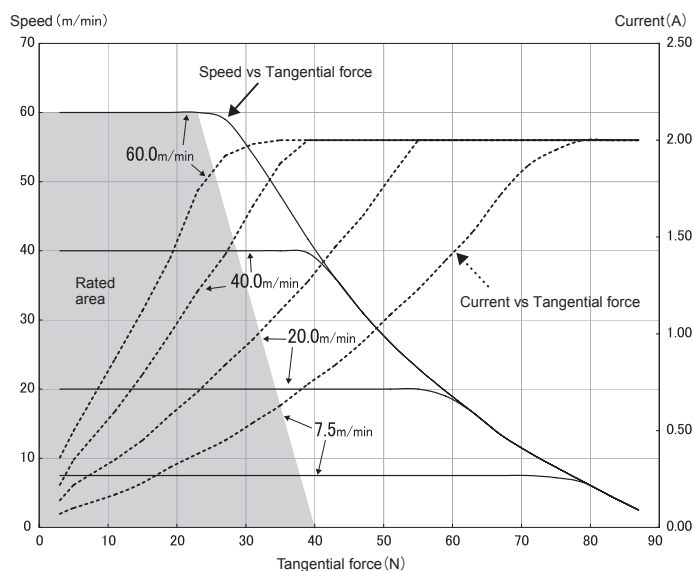
*9.3~10 or No input Voltage



PM486XE-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	Rated	Starting	No-load	Starting				
60.0	60.0	23		0.5		31	41	9.1K or over or open	9.3~10 *
55.0	55.0	25		0.5		30	41	6.2K	8.5 $\pm$ 0.2
45.0	45.0	27		0.4		27	38	4.3K	7.5 $\pm$ 0.2
40.0	40.0	28		0.4		24	36	3.3K	6.5 $\pm$ 0.2
35.0	35.0	30		0.3		23	34	2.2K	5.5 $\pm$ 0.2
30.0	30.0	31		0.3		21	31	1.8K	4.5 $\pm$ 0.2
20.0	20.0	33		0.3		14	24	1.2K	3.5 $\pm$ 0.2
15.0	15.0	35		0.2		12	22	750	2.5 $\pm$ 0.2
10.0	10.0	37		0.2		8	19	430	1.5 $\pm$ 0.2
7.5	7.5	37		0.2		6	17	120 or less or short	0~0.9

*9.3~10 or No input Voltage



*The values in the characteristics list are 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.

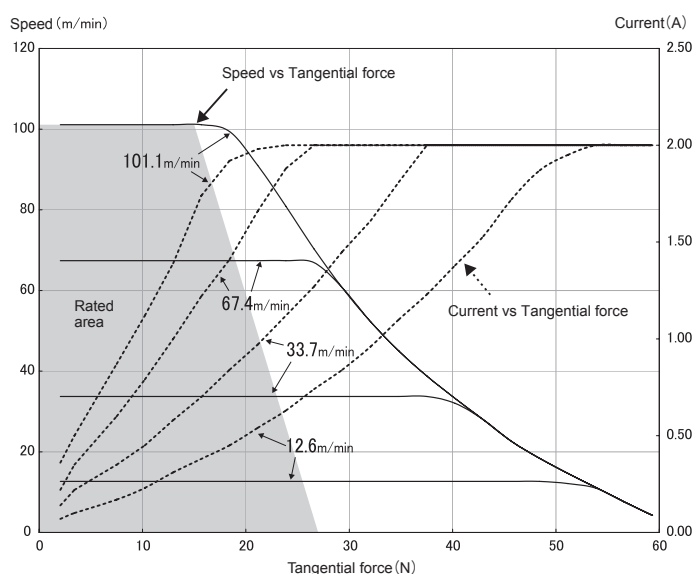
 [MDR Selection Tool] is available on our web page.

Operating characteristics : PM486XE

PM486XE-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	Rated	Starting	No-load	Starting				
101.1	101.1	16		0.5		31	41	9.1K or over or open	9.3~10 *
92.7	92.7	17		0.5		30	41	6.2K	8.5 $\pm$ 0.2
75.8	75.8	19		0.4		27	38	4.3K	7.5 $\pm$ 0.2
67.4	67.4	19		0.4		24	36	3.3K	6.5 $\pm$ 0.2
59.0	59.0	20		0.3		23	34	2.2K	5.5 $\pm$ 0.2
50.6	50.6	21		0.3		21	31	1.8K	4.5 $\pm$ 0.2
33.7	33.7	23		0.3		14	24	1.2K	3.5 $\pm$ 0.2
25.3	25.3	24		0.2		12	22	750	2.5 $\pm$ 0.2
16.9	16.9	26		0.2		8	19	430	1.5 $\pm$ 0.2
12.6	12.6	26		0.2		6	17	120 or less of short	0~0.9

*9.3~10 or No input Voltage

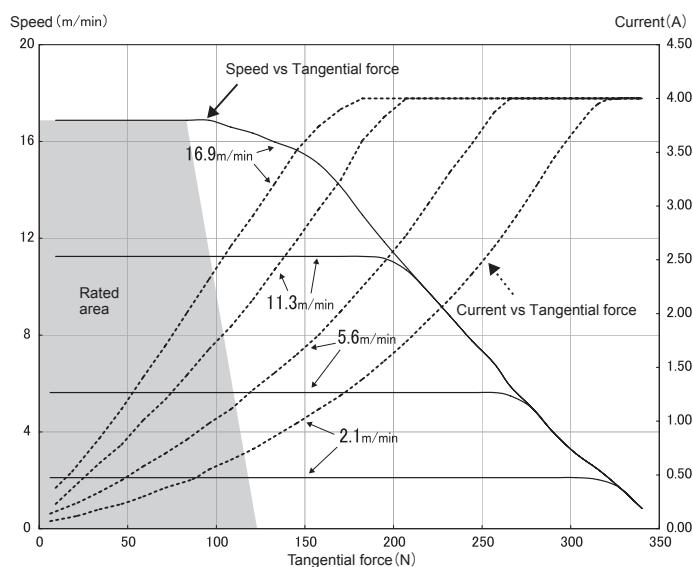


Operating characteristics : PM486XP

PM486XP-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	Rated	Starting	No-load	Starting				
16.9	16.9	84		0.5		36	48	9.1K or over or open	9.3~10 *
15.5	15.5	90		0.5		35	48	6.2K	8.5 $\pm$ 0.2
12.7	12.7	97		0.4		31	43	4.3K	7.5 $\pm$ 0.2
11.3	11.3	100		0.4		28	38	3.3K	6.5 $\pm$ 0.2
9.9	9.9	102		0.3		24	36	2.2K	5.5 $\pm$ 0.2
8.4	8.4	105		0.3		22	34	1.8K	4.5 $\pm$ 0.2
5.6	5.6	110		0.3		16	26	1.2K	3.5 $\pm$ 0.2
4.2	4.2	110		0.2		12	24	750	2.5 $\pm$ 0.2
2.8	2.8	116		0.2		8	19	430	1.5 $\pm$ 0.2
2.1	2.1	116		0.2		6	17	120 or less of short	0~0.9

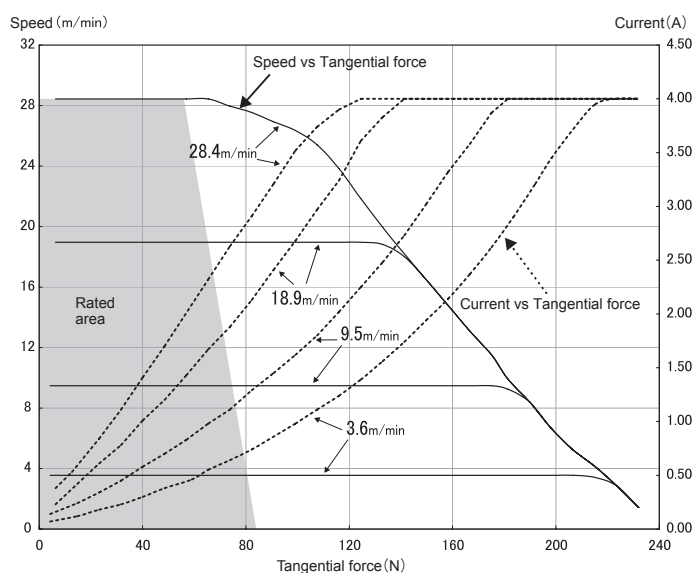
*9.3~10 or No input Voltage



PM486XP-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	Rated	Starting	No-load	Starting				
28.4	28.4	57		0.5		36	48	9.1K or over or open	9.3~10 *
26.0	26.0	62		0.5		35	48	6.2K	8.5 $\pm$ 0.2
21.3	21.3	67		0.4		31	43	4.3K	7.5 $\pm$ 0.2
18.9	18.9	68		0.4		28	38	3.3K	6.5 $\pm$ 0.2
16.6	16.6	70		0.3		24	36	2.2K	5.5 $\pm$ 0.2
14.2	14.2	72		0.3		22	34	1.8K	4.5 $\pm$ 0.2
9.5	9.5	75		0.3		16	26	1.2K	3.5 $\pm$ 0.2
7.1	7.1	75		0.2		12	24	750	2.5 $\pm$ 0.2
4.7	4.7	79		0.2		8	19	430	1.5 $\pm$ 0.2
3.6	3.6	79		0.2		6	17	120 or less of short	0~0.9

*9.3~10 or No input Voltage



*The values in the characteristics list are 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.

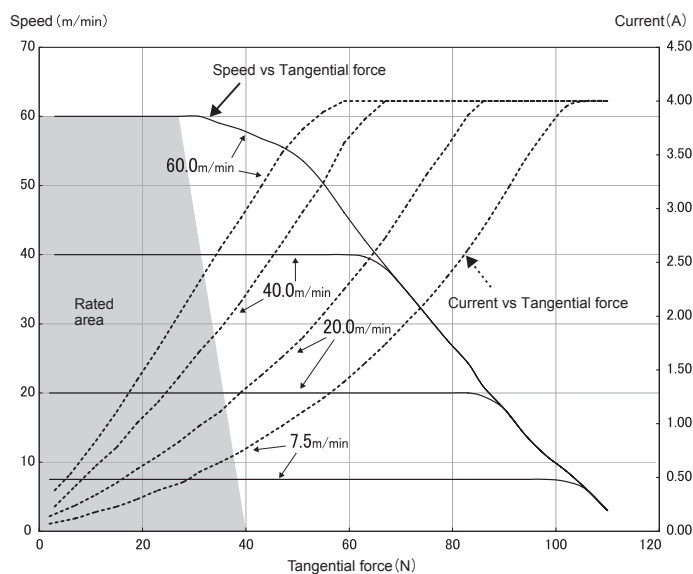
 [MDR Selection Tool] is available on our web page.

Operating characteristics : PM486XP

PM486XP-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	Rated	Starting	No-load	Starting				
60.0	60.0	27		0.5		36	48	9.1K or over or open	9.3~10 *
55.0	55.0	29		0.5		35	48	6.2K	8.5 $\pm$ 0.2
45.0	45.0	31		0.4		31	43	4.3K	7.5 $\pm$ 0.2
40.0	40.0	32		0.4		28	38	3.3K	6.5 $\pm$ 0.2
35.0	35.0	33		0.3		24	36	2.2K	5.5 $\pm$ 0.2
30.0	30.0	34		0.3		22	34	1.8K	4.5 $\pm$ 0.2
20.0	20.0	35		0.3		16	26	1.2K	3.5 $\pm$ 0.2
15.0	15.0	35		0.2		12	24	750	2.5 $\pm$ 0.2
10.0	10.0	37		0.2		8	19	430	1.5 $\pm$ 0.2
7.5	7.5	37		0.2		6	17	120 or less of short	0~0.9

*9.3~10 or No input Voltage



PM486XP-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	Rated	Starting	No-load	Starting				
101.1	101.1	19		0.5		36	48	9.1K or over or open	9.3~10 *
92.7	92.7	20		0.5		35	48	6.2K	8.5 $\pm$ 0.2
75.8	75.8	21		0.4		31	43	4.3K	7.5 $\pm$ 0.2
67.4	67.4	22		0.4		28	38	3.3K	6.5 $\pm$ 0.2
59.0	59.0	23		0.3		24	36	2.2K	5.5 $\pm$ 0.2
50.6	50.6	23		0.3		22	34	1.8K	4.5 $\pm$ 0.2
33.7	33.7	24		0.3		16	26	1.2K	3.5 $\pm$ 0.2
25.3	25.3	24		0.2		12	24	750	2.5 $\pm$ 0.2
16.9	16.9	26		0.2		8	19	430	1.5 $\pm$ 0.2
12.6	12.6	26		0.2		6	17	120 or less of short	0~0.9

*9.3~10 or No input Voltage

