

# S MJ MML040系列...MML040△-KP□□、MML040-MP□□□□

(MML040 Type...MML040△-KP□□、MML040-MP□□□□)



MML系列中推力最大的直线电机。是适用于大型制造设备需要精密定位、高速度、高加速度、高推力领域的直线电机。  
Within the MML series, this model has the most force. It is ideally suited for applications where high amounts of force, high speed, and quick acceleration are required for operation, such as Large Scale Production Equipment and Precision Positioning Equipment.

### 标准规格 / Standard Specifications

绝缘耐压 / Insulation Capacity : AC1500V/1分种 (1min)  
 耐电压 / Withstand Voltage : 0 ~ 40°C  
 冷却方式 / Cooling method : 自冷 (Self-cool)  
 绝缘电阻 / Insulation Resistance : DC500V/100MΩ以上 DC500V/100MM以上  
 周温湿度 / Operating range (in controlled environment) : 20 ~ 8% (无结露)  
 最大温度 / Maximum temperature : 120°C

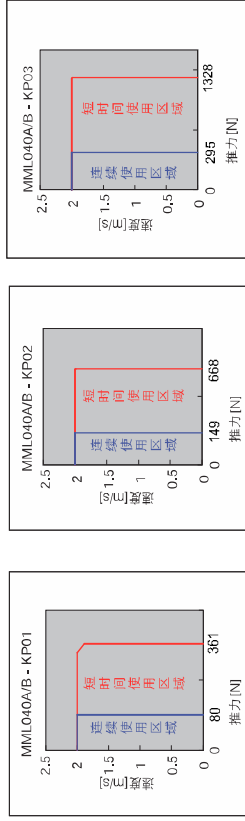
### 详细规格 / Specification

项目 / Item	单位 / Unit	MML040 -K□□		MML040 -K□□		MML040 -K□□	
		A1	B1	A1	B1	A1	B1
额定推力 <sup>1)</sup> / Continuous Force	N	80.2	148.5	148.5	295.0	295.0	295.0
额定电流 <sup>2)</sup> / Continuous Current	Arms	1.76	3.32	3.32	6.69	6.69	6.69
最大推力 <sup>3)</sup> / Peak Force	N	360.9	668.3	668.3	1327.5	1327.5	1327.5
最大电流 <sup>3)</sup> / Peak Current	Arms	7.9	14.9	14.9	29.6	29.6	29.6
动子重量 / Mover weight	kg	0.31	0.58	0.58	1.26	1.26	1.26
推力常数 / Force Constant	N / Arms	45.7	89.5	89.5	179.0	179.0	179.0
DC马达常数 / All Three Phases	N / V	12.3	12.0	16.9	17.1	23.9	24.3
马达常数 / Motor Constant	Vrms / Arms	28.4	51.8	25.9	52.2	26.9	52.3
线间感电压常数 / Back EMF (line to line)	Ω	8.3	37.4	4.7	18.5	2.4	8.3
线间电感 / Inductance (line to line)	mH	3.01	11.72	1.50	6.11	0.75	3.05
热阻常数 (含散热片) / Thermal Resistance (included heat sink)	K / W	3.70	2.04	2.04	1.03	1.03	1.03
热阻常数 (无散热片) / Thermal Resistance (not included heat sink)	K / W	4.40	2.40	2.40	1.21	1.21	1.21

\*1 : A为低电压输入型, B为高电压输入型, 条件的A或B。  
 \*2 : 额定电流为额定电压下的伺服控制器最大电流而变化。本数值是以转子上安装散热片 (铝版) 为条件的。  
 \*3 : 电机额定温度为100°C时的数值。

\*1 : A = Low Voltage Model, B = High Voltage Model. The / mark signifies that either A or B models could be suitable.  
 \*2 : The value given for the Peak Force and Peak Current may differ depending on the Peak Current of the Servo Controller utilized.  
 \*3 : Given Values are for heat sink (Aluminum) equipped Coil Plates. (Heat Sink size: 200 × 200 × 19mm)

### 推力-速度特性 / Force/Speed Characteristics



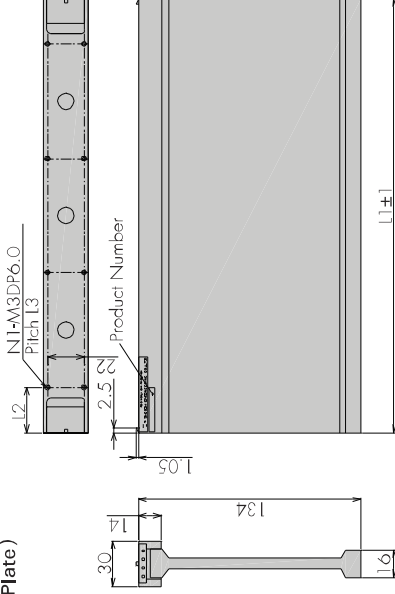
本特性根据伺服控制器给直线电机的输入电压而变化。  
 The above characteristics may vary depending on the Voltage supply from the Servo Controller to the motor.

上述特性是以A型AC85V、B型AC170V作为供给至直线电机的输入电压算出的。  
 Listed characteristics for the Linear Motor's Input Voltage is calculated at AC85V for Type A, AC170V for Type B.

For further details, please contact our Sales Department.

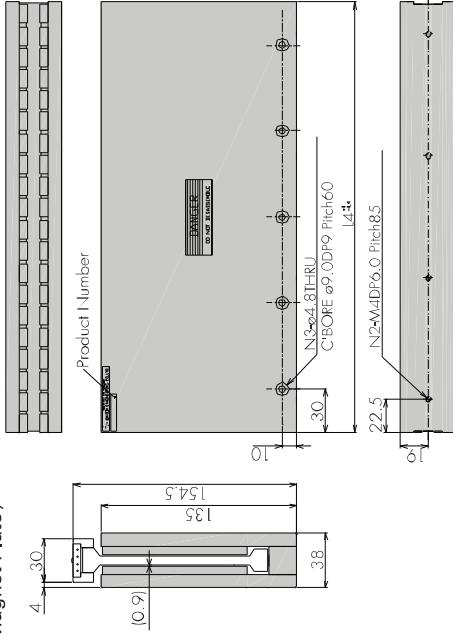
### 外形尺寸 / Dimensions (单位 / unit : mm)

#### ● 定子 (Coil Plate)



Type	Size[mm]	Qty[pcs]
KP01	L1	N1
KP02	L2	L3
KP03	L3	30
	L4	4
	L5	138
	L6	32
	L7	27
	L8	68

#### ● 定子 (Magnet Plate)



Type	Size[mm]	Qty[pcs]
MP150	L4	N2
MP300	L5	N3
	L6	2
	L7	4
	L8	5