WJM080

WJM100

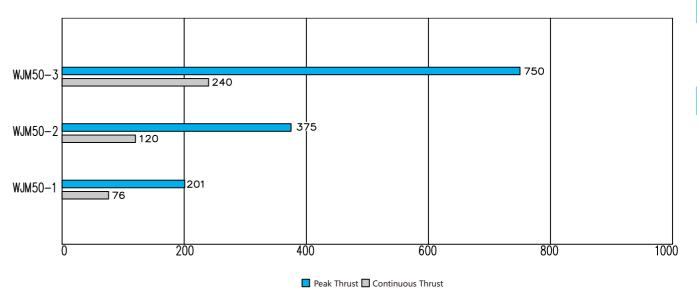


• Mover Model Number Designation System L05 050 **WJM** Coil Wire Length Series Mover Width Mover Length WJM 75 L05: 0.5m 1:56mm 2:96mm 3:176mm For other lengths, please consult our sales team. Stator Model Number Designation System DJM L80 050 Stator Width Stator Length Series WJM 050-L80 75 10.3 1 80 050: 75mm WJM L80: 80mm WJM 050-L200 200 75 10.3 4 10 20 4.88 L200: 200mm 400 75 10.3 9 20 20 4.88 WJM050-L400 The coils of the WJM050 series can be freely paired with WJM050-L80, WJM050-L200, or WJM050-L400. L400:400mm Stator Size

* For special length requirements, please consult our sales team.

Thrust Graph

Linear Motor Specifications Overview



Specification Parameters

	Symbol	Unit	WJM50-1	WJM50-2	WJM50-3
Continuous Thrust	Fc	N	76	120	240
Continuous Current	lc	Arms	3	2.3	4.6
Peak Thrust [1s]	Fp	N	201	375	750
Limiting Current [1s]	lu	Arms	12	9	18
Thrust Constant	K_{f}	N/A _{rms}	25.4	52.2	52.2
Attractive Force Between Mover & Stator	Fa	N	325	660	1300
Max. Coil Temperature	T _{max}	℃	100	100	100
Electrical Time Constant	Ke	ms	4.2	4	4
Resistance [Phase-to-Phase, 25°C]	R ₂₅	Ω	3	6.6	3.3
Inductance [Phase-to-Phase, 25°C]	L	mH	13	26	13
Pole Pitch	2τ	mm	20	20	20
Back EMF Constant	Kv	V _{rms} /[m/s]	20.8	42.6	42.6
Continuous Thermal Power (Natural Cooling) @ 100°C	Pcn	W	52.7	69.8	139.7
Motor Constant [25°C]	Km	N/√W	11.9	16.7	23.6
Thermal Dissipation Constant (Natural Cooling)	R _{TH}	W/°C	0.7	0.9	1.8
Thermal Sensor Switch	-	-	PT100	PT100	PT100
Max. Operating Voltage	-	VDC	600	600	600
Mover Mass	Mf	kg	0.53	0.9	1.8
Stator Unit Mass	Ms	kg/m	4.88	4.88	4.88

Note: All data in this table is measured at an ambient temperature of 25°C and represents values obtained without forced cooling. Except for dimensional specifications, all other specifications have a tolerance of ±10%. Our company reserves the right to make changes, and relevant parameters are subject to change without prior notice.

Linear Motor Specifications Overview

MAXWELL



