



GEEPLUS

VM1614

P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

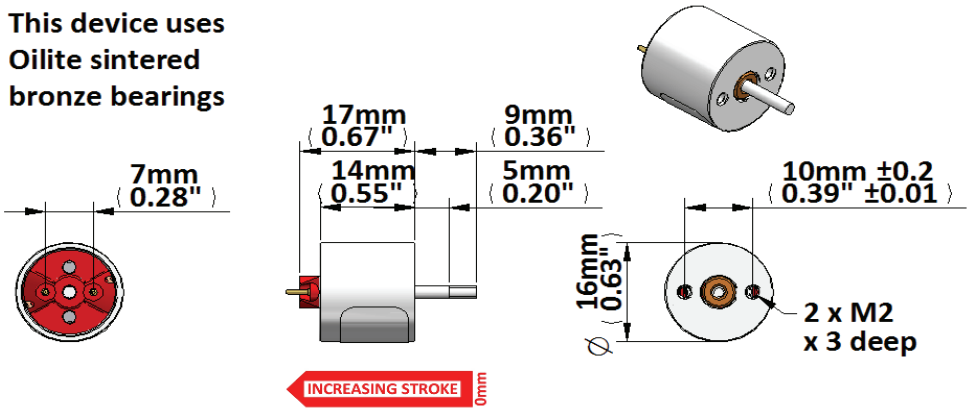
P_{100} 5 W
 T_{max} 130 °C

Total Mass 15 g
Coil Mass 3 g

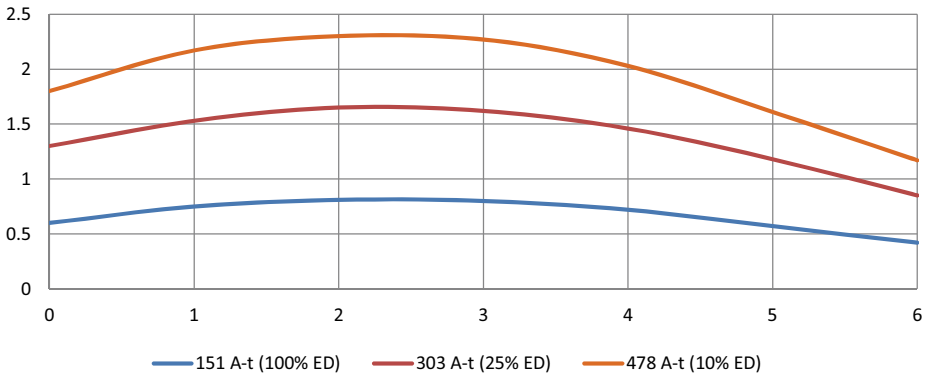
Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM1614-200	2.8 Ω	0.2 mH	0.7 N/A	0.7 Vs/m	1129 mA
VM1614-180	4.5 Ω	0.3 mH	0.7 N/A	0.7 Vs/m	891 mA
VM1614-125	16.3 Ω	0.0 mH	1.5 N/A	1.5 Vs/m	468 mA
VM1614-100	43.0 Ω	4.0 mH	2.4 N/A	2.4 Vs/m	288 mA

	Max 'ON' time	Peak Force
100% ED	∞	0.8 N
50% ED	22 s	1.1 N
25% ED	9 s	1.7 N
10% ED	3 s	2.3 N

This device uses Oilite sintered bronze bearings



Force (N) vs Displacement (mm)



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GEEPLUS

VM2436

P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 12.5 W

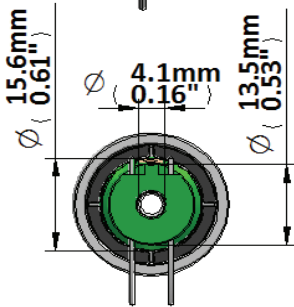
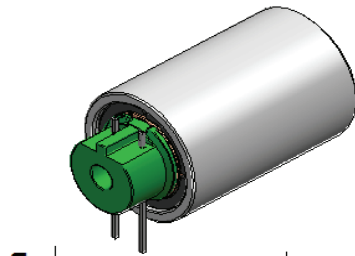
T_{max} 130 °C

Total Mass 95 g

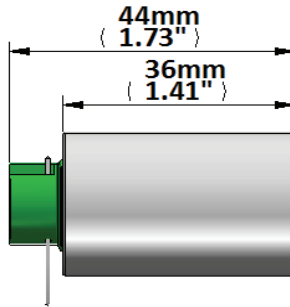
Coil Mass 9 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM2436-375	1.0 Ω	0.2 mH	0.7 N/A	0.7 Vs/m	2.99 A
VM2436-180	17.8 Ω	3.6 mH	2.9 N/A	2.9 Vs/m	708 mA
VM2436-112	107.0 Ω	22.0 mH	6.7 N/A	6.7 Vs/m	289 mA

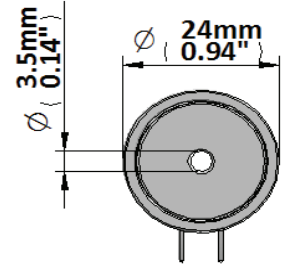
	Max 'ON' time	Peak Force
100% ED	∞	2.7 N
50% ED	22 s	3.8 N
25% ED	9 s	5.2 N
10% ED	3 s	7.5 N



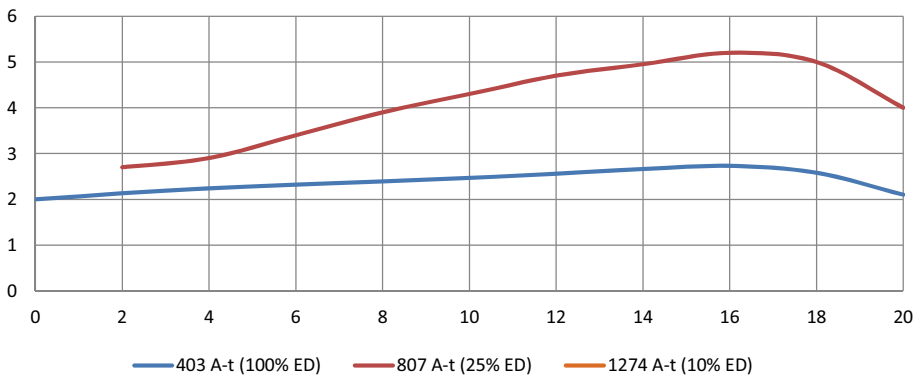
INCREASING STROKE 0mm



This part does not include bearings - guidance should be provided in customer application to maintain clearance between coil and magnet assembly



Force (N) vs Displacement (mm) [outwards direction]



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GEEPLUS

VM2618 & VM2836

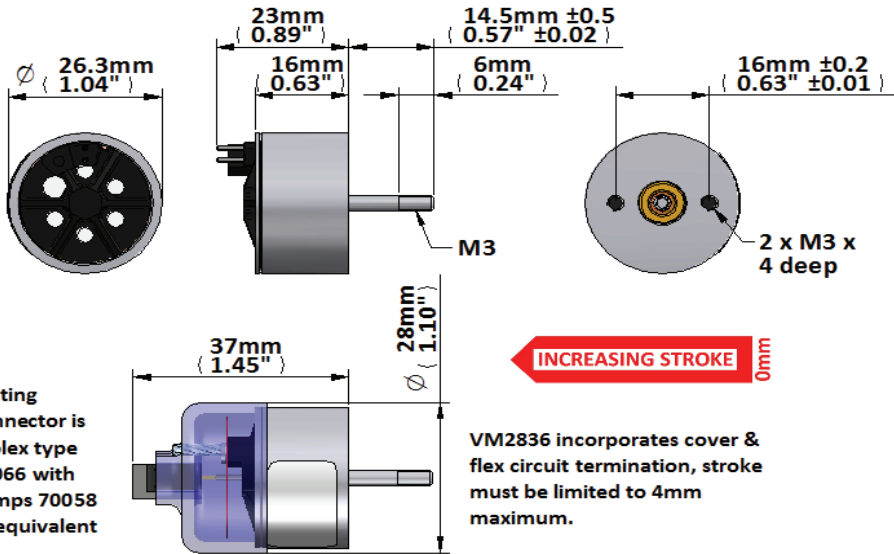
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 8 W
 T_{max} 130 °C

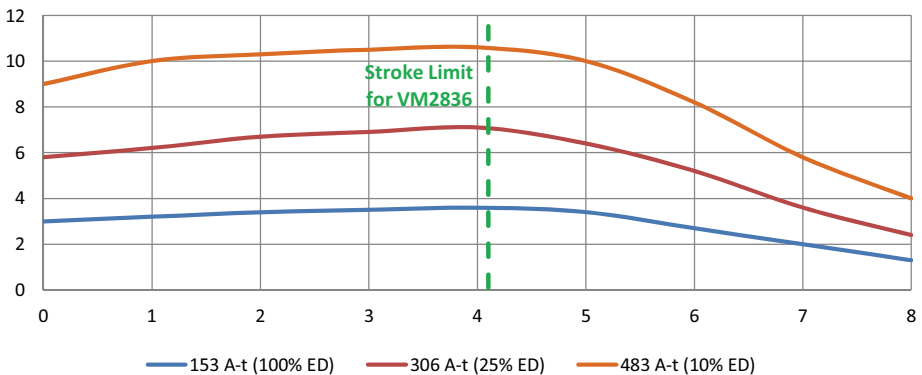
Total Mass 60 g
 Coil Mass 6 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM2xxx-180	9.6 Ω	1.3 mH	4 N/A	4 Vs/m	771 mA
VM2xxx-132	34.4 Ω	5.3 mH	8 N/A	8 Vs/m	407 mA
VM2xxx-112	55.0 Ω	7.3 mH	9 N/A	9 Vs/m	322 mA
VM2xxx-080	286.0 Ω	40.0 mH	21 N/A	21 Vs/m	141 mA

	Max 'ON' time	Peak Force
100% ED	∞	3.4 N
50% ED	55 s	4.8 N
25% ED	12 s	7.0 N
10% ED	3 s	10.6 N



Force (N) vs Displacement (mm)



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GEEPLUS

VM3322 & VM3334

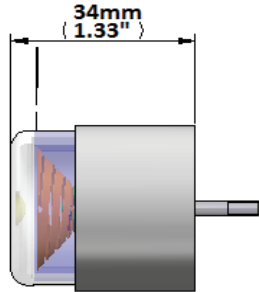
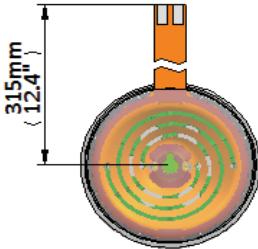
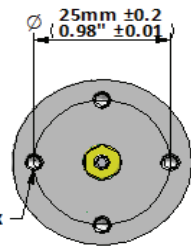
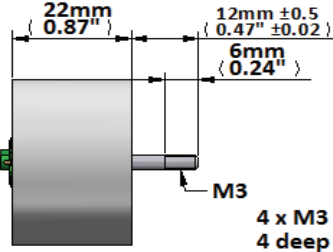
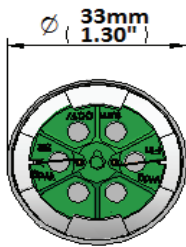
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 8 W
 T_{max} 130 °C

Total Mass 140 g
 Coil Mass 7 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM33xx-315	1.0 Ω	0.2 mH	2 N/A	2 Vs/m	2.4 A
VM33xx-180	10.9 Ω	3.0 mH	6 N/A	6 Vs/m	724 mA
VM33xx-125	47.7 Ω	13.0 mH	13 N/A	13 Vs/m	346 mA
VM33xx-090	173.0 Ω	44.0 mH	24 N/A	24 Vs/m	182 mA

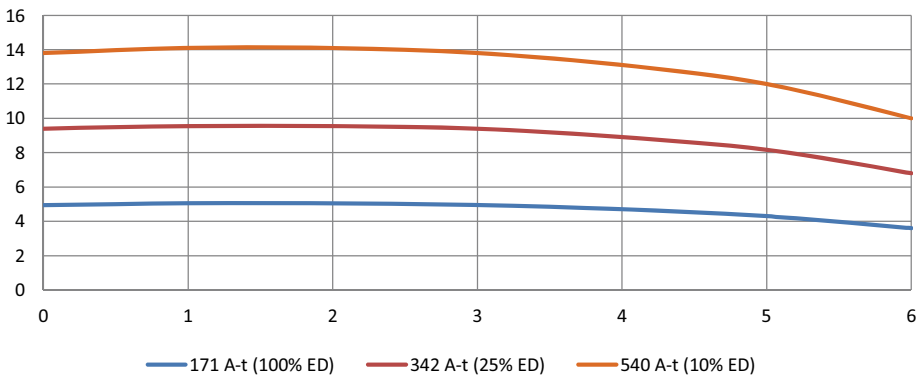
	Max 'ON' time	Peak Force
100% ED	∞	5.0 N
50% ED	17 s	7.0 N
25% ED	6 s	9.5 N
10% ED	2 s	14.0 N



INCREASING STROKE 0mm

VM3334 incorporates flex termination to mate with 5-way FFC connector, Molex P/N 52207-0585 or similar. Centre pin is unused, 2 pins connect to each circuit of flex termination. Orientation of flex circuit exit position relative to mounting holes may vary.

Force (N) vs Displacement (mm)





GEEPLUS

VM3850RB

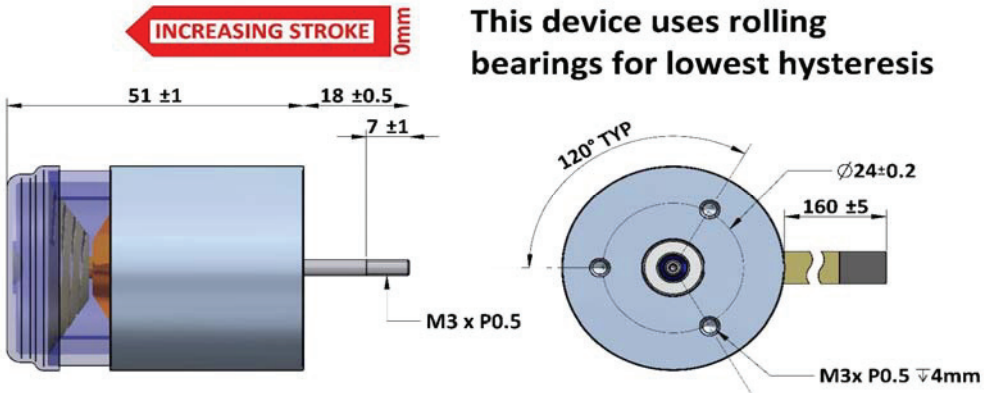
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 7.4 W
 T_{max} 130 °C

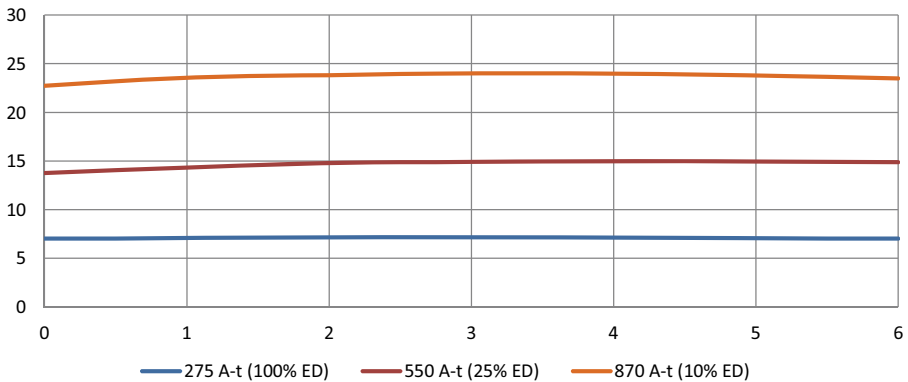
Total Mass ?g
Coil Mass 17 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM3850RB-200	22.6 Ω	0.0	13.8 N/A	13.8 Vs/m	0.48 A
VM3850RB-280	4.5 Ω	0.0	4.5 N/A	4.5 Vs/m	1.08 A

	Max 'ON' time	Peak Force*
100% ED	∞	7.2 N
50% ED	105 s	10.0 N
25% ED	62 s	15.0 N
10% ED	11 s	24.0 N



Force (N) vs Displacement (mm)



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GEEPLUS

VM4032 & VM4040

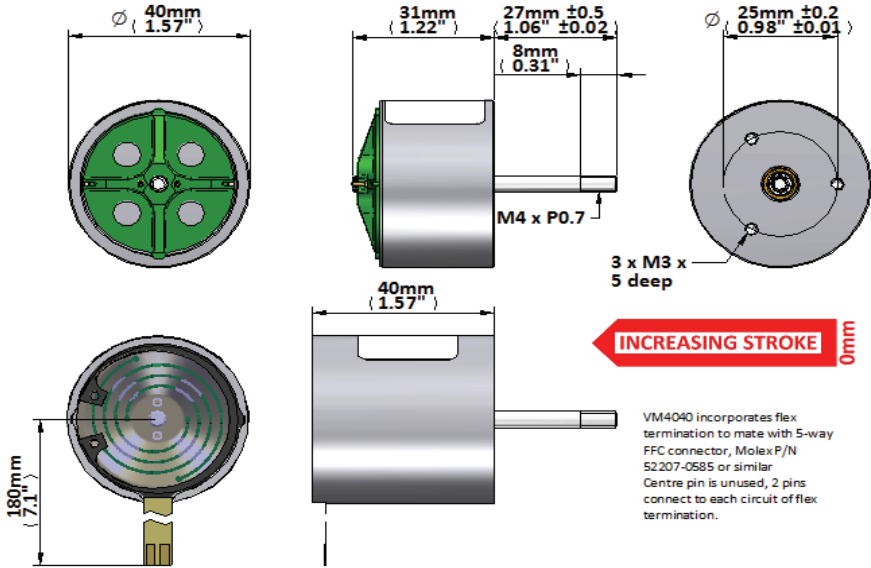
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 16 W
 T_{max} 130 °C

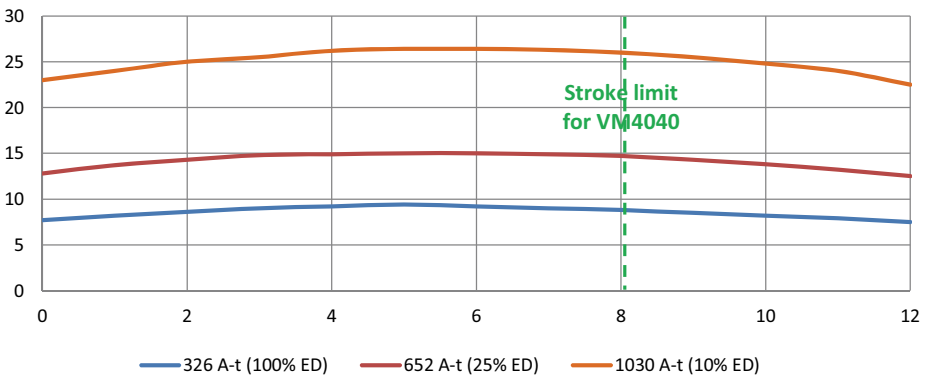
Total Mass 230 g
 Coil Mass 25 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM40xx-315	4.3 Ω	1.5 mH	5 N/A	5 Vs/m	1.6 A
VM40xx-250	12.8 Ω	5.2 mH	10 N/A	10 Vs/m	0.9 A
VM40xx-200	26.0 Ω	7.8 mH	12 N/A	12 Vs/m	0.7 A

	Max 'ON' time	Peak Force
100% ED	∞	9.0 N
50% ED	90 s	12.0 N
25% ED	28 s	15.0 N
10% ED	8 s	26.0 N



Force (N) vs Displacement (mm)



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VM5042 & VM5050

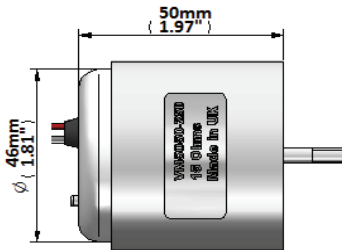
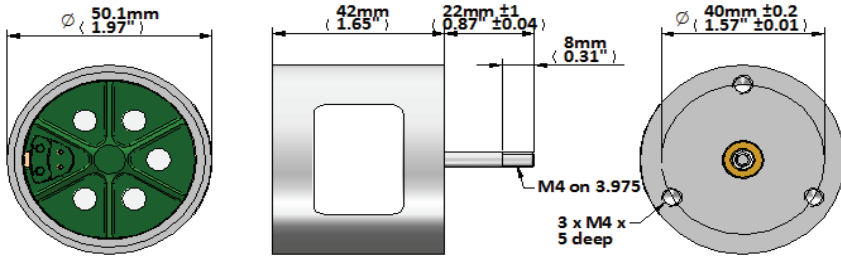
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 24 W
 T_{max} 130 °C

Total Mass 480 g
 Coil Mass 35 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM50xx-400	2.5 Ω	1.3 mH	7 N/A	7 Vs/m	2.6 A
VM50xx-250	15.0 Ω	5.6 mH	17 N/A	17 Vs/m	1.1 A
VM50xx-190	45.0 Ω	20.0 mH	30 N/A	30 Vs/m	0.6 A

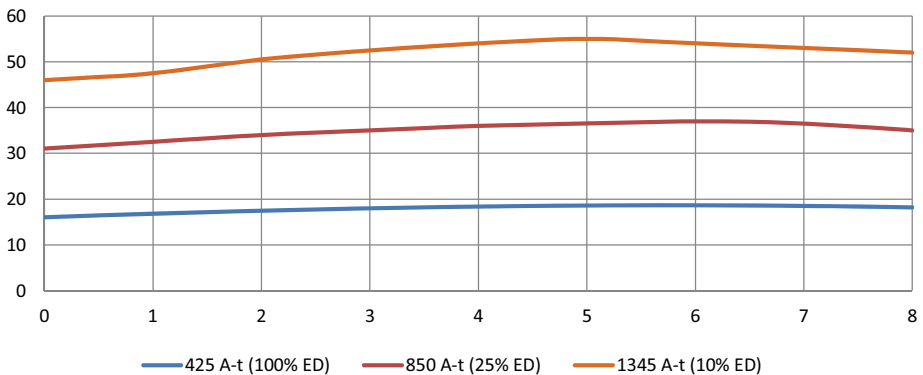
Max 'ON' time	Peak Force
100% ED	∞ 19.0 N
50% ED	65 s 27.0 N
25% ED	12 s 37.0 N
10% ED	3 s 54.0 N



INCREASING STROKE 0mm

VM5050 incorporates end cover and flex circuit termination to coil with leadwires 24AWG, UL????, 300mm (12") minimum length. Stroke is limited to 8mm.

Force (N) vs Displacement (mm)



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GEEPLUS

VM6340

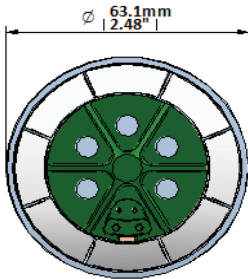
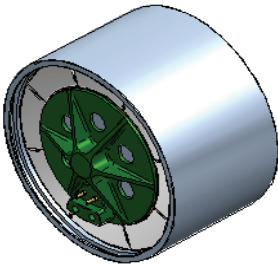
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 24 W
 T_{max} 130 °C

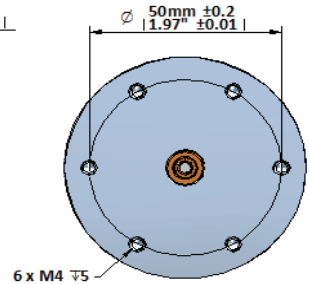
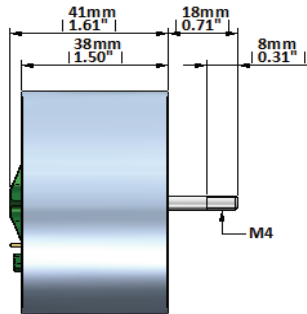
Total Mass 750 g
 Coil Mass 40 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM6340-400	2.5 Ω	1.3 mH	12 N/A	12 Vs/m	2.6 A
VM6340-250	15.3 Ω	7.8 mH	29 N/A	29 Vs/m	1.1 A
VM6340-190	45.0 Ω	20.0 mH	51 N/A	51 Vs/m	0.6 A

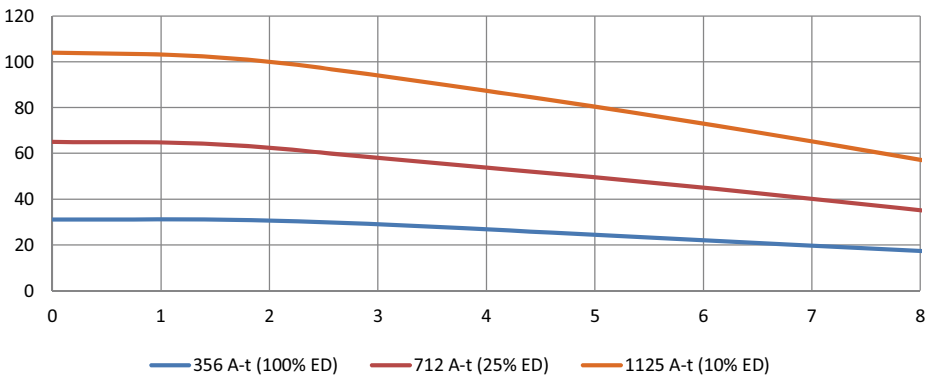
	Max 'ON' time	Peak Force
100% ED	∞	31.0 N
50% ED	65 s	46.0 N
25% ED	12 s	65.0 N
10% ED	3 s	104.0 N



INCREASING STROKE 0mm



Force (N) vs Displacement (mm)



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GEEPLUS

VM6340L

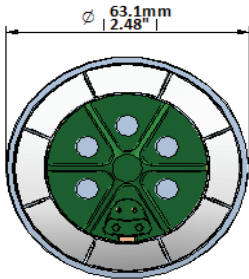
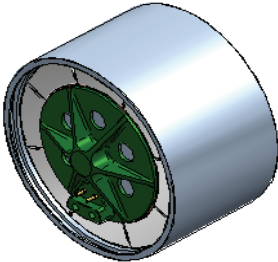
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} **28 W**
 T_{max} **130 °C**

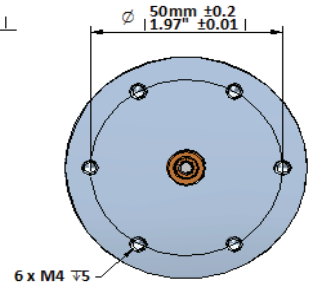
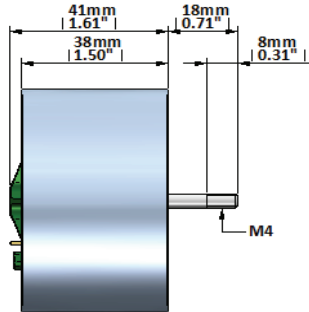
Total Mass **750 g**
Coil Mass **43 g**

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM6340L-400	3.7 Ω	1.8 mH	14 N/A	14 Vs/m	2.3 A
VM6340L-250	22.0 Ω	10 mH	33 N/A	33 Vs/m	1.0 A
VM6340L-190	67.0 Ω	31 mH	57 N/A	57 Vs/m	0.5 A

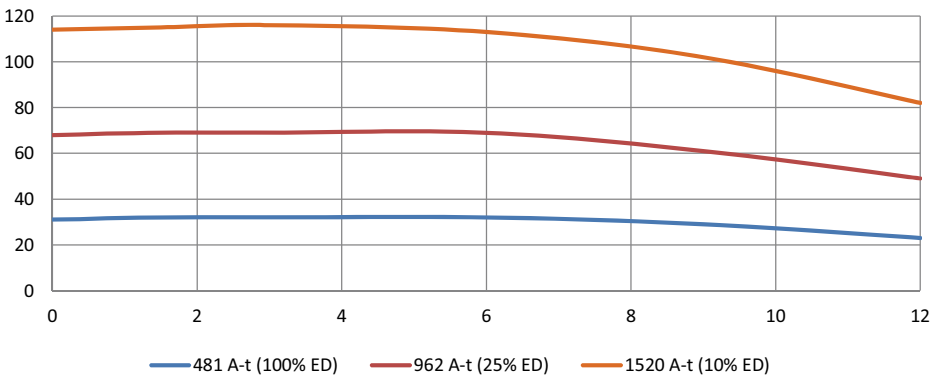
	Max 'ON' time	Peak Force
100% ED	∞	32.0 N
50% ED	65 s	48.0 N
25% ED	12 s	69.0 N
10% ED	3 s	116.0 N



← INCREASING STROKE 0mm



Force (N) vs Displacement (mm)



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GEEPLUS

VM6548

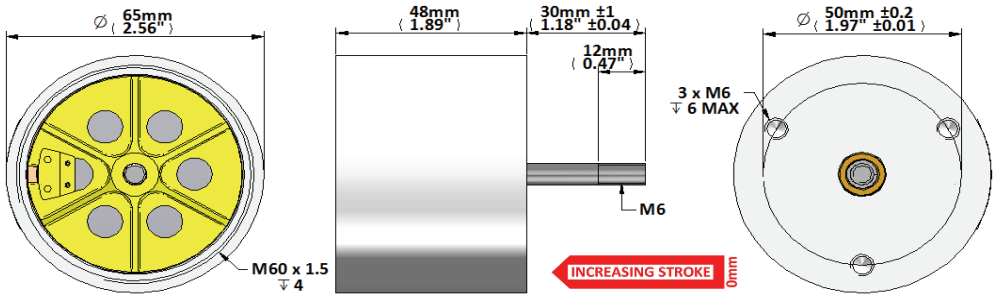
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} **28 W**
 T_{max} **130 °C**

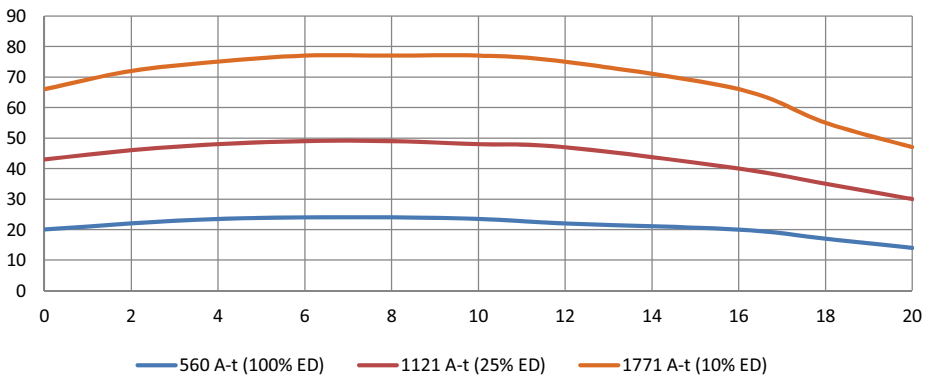
Total Mass **950 g**
Coil Mass **90 g**

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM6548-400	7.8 Ω	7.4 mH	19 N/A	19 Vs/m	1.6 A
VM6548-315	23.3 Ω	12.0 mH	32 N/A	32 Vs/m	0.9 A
VM6548-200	121.0 Ω	96.0 mH	72 N/A	72 Vs/m	0.4 A

	Max 'ON' time	Peak Force
100% ED	∞	24.0 N
50% ED	90 s	34.0 N
25% ED	35 s	49.0 N
10% ED	13 s	77.0 N



Force (N) vs Displacement (mm)



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GEEPLUS

VM8054 & VM8080

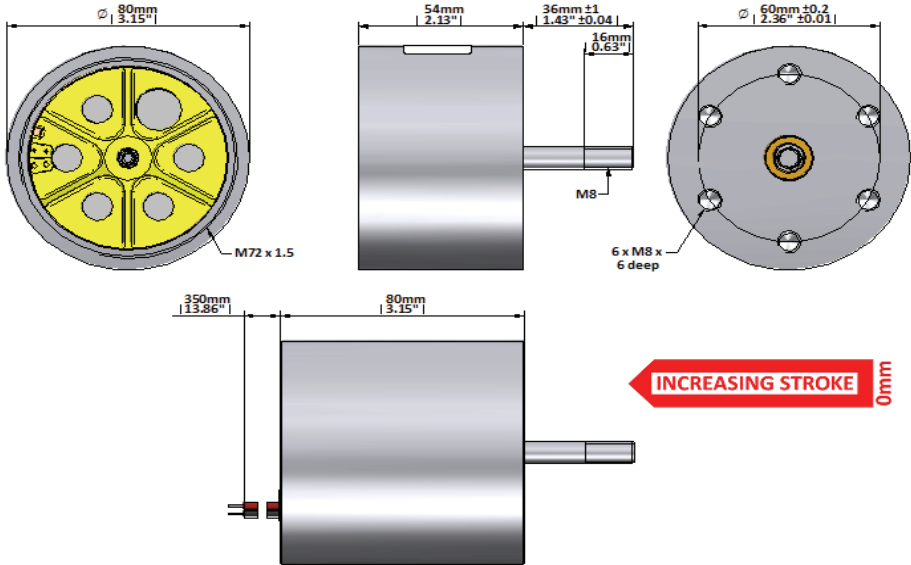
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 50 W
 T_{max} 130 °C

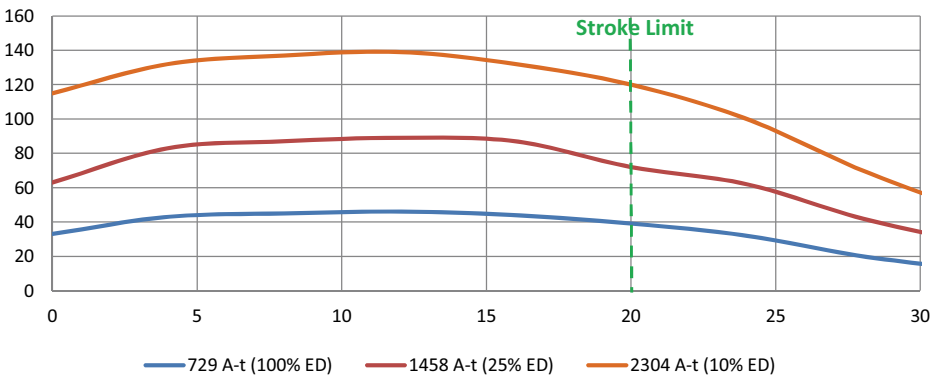
VM8054 1.7kg / VM8080 2kg
Coil Mass 150 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM80xx-630	2.3 Ω		10 N/A	10 Vs/m	3.9 A
VM80xx-400	11.5 Ω	10.6 mH	24 N/A	24 Vs/m	1.8 A
VM80xx-250	85.0 Ω	77.0 mH	62 N/A	62 Vs/m	0.6 A

	Max 'ON' time	Peak Force
100% ED	∞	43.0 N
50% ED	100 s	62.0 N
25% ED	100 s	85.0 N
10% ED	0 s	130.0 N



Force (N) vs Displacement (mm)



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GEEPLUS

VM102P2

P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

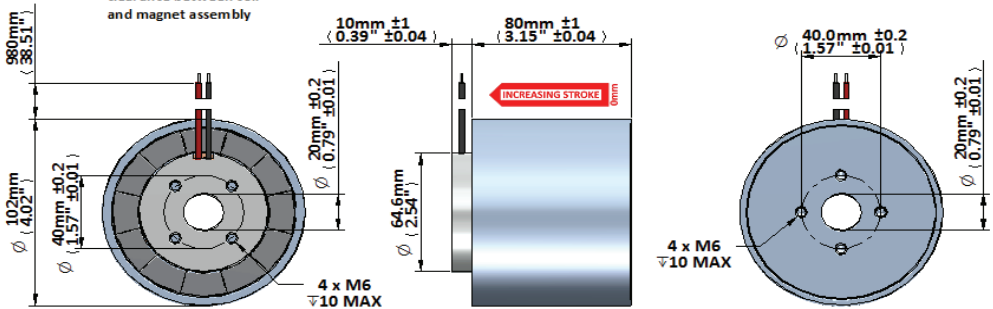
P_{100} 105 W
 T_{max} 130 °C

Total Mass 4200 g
 Coil Mass 325 g

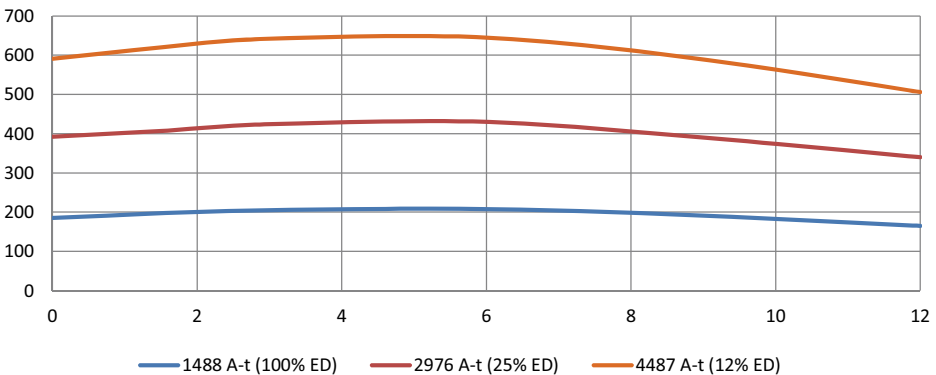
Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM102P2-710	2.1 Ω	0.6 mH	35 N/A	35 Vs/m	6.0 A
VM102P2-475	10.5 Ω	3.0 mH	78 N/A	78 Vs/m	2.7 A
VM102P2-355	33.4 Ω	9.5 mH	138 N/A	138 Vs/m	1.5 A

	Max 'ON' time	Peak Force
100% ED	∞	208.0 N
50% ED	100 s	297.0 N
25% ED	35 s	430.0 N
10% ED	12 s	645.0 N

This part does not include bearings - guidance should be provided in customer application to maintain clearance between coil and magnet assembly



Force (N) vs Displacement (mm)



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GEEPLUS

VM108-2P30

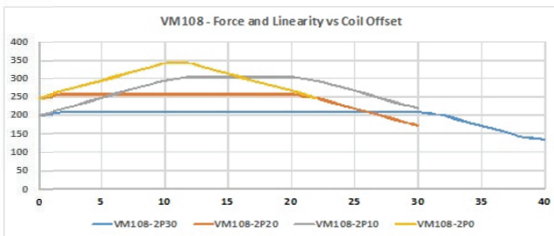
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} **108 W**
 T_{max} **120 °C**

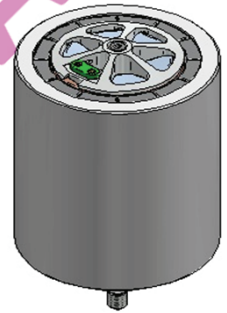
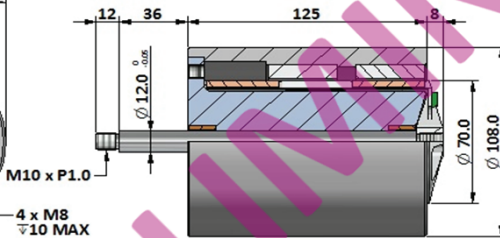
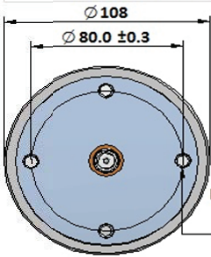
Total Mass **8 kg**
Coil Mass **750 g**

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM108-2P30-1000	1.3 Ω	0.0 mH	25 N/A	25 Vs/m	7.7 A
VM108-2P30-670	6.4 Ω	0.0 mH	56 N/A	56 Vs/m	3.5 A
VM108-2P30-500	20.2 Ω	0.0 mH	99 N/A	99 Vs/m	2.0 A

	Max 'ON' time	Peak Force
100% ED	∞	230.0 N
50% ED	100 s	300.0 N
25% ED	35 s	440.0 N
10% ED	11 s	700.0 N



The VM108-2P voice coil motor can be configured with different coil geometry to provide more force over a shorter linear range. The graph gives an approximate indication of what is possible. Call Geeplus if other



Force (N) vs Displacement (mm)

