



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

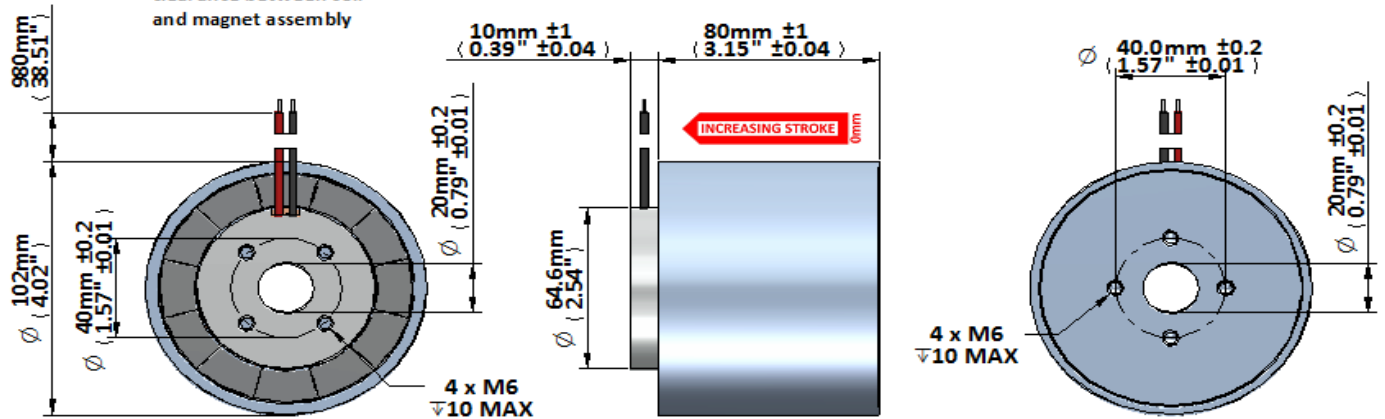
Total Mass 4200 g

Coil Mass 325 g

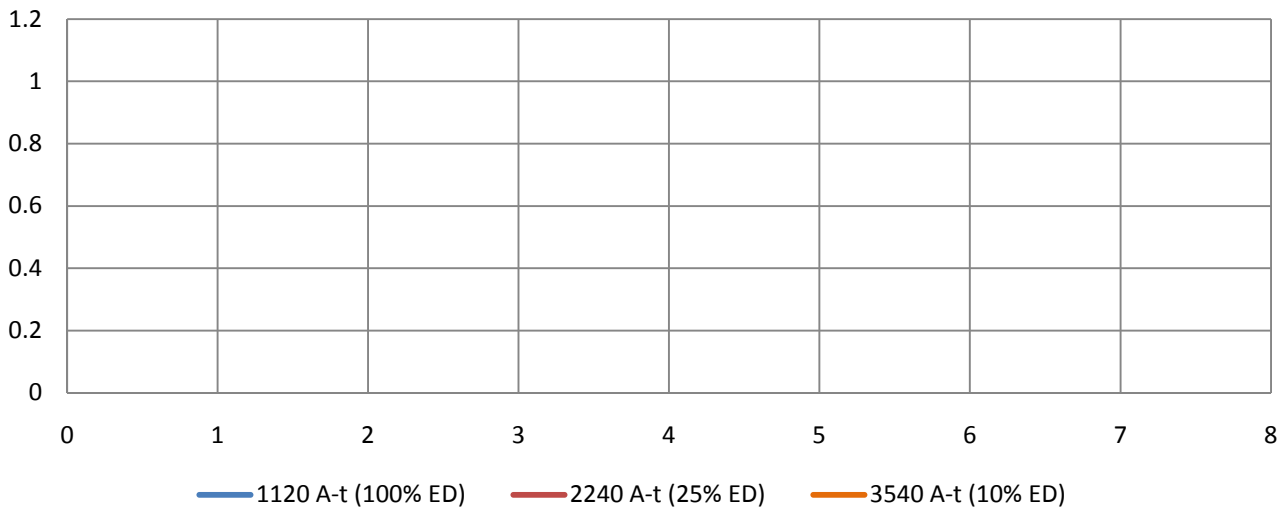
Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM102P2-710	2.1 Ω	0.6 mH	37 N/A	0.0 Vs/m	6.0 A
VM102P2-475	10.5 Ω	3.0 mH	83 N/A	0.0 Vs/m	2.7 A
VM102P2-355	33.4 Ω	9.5 mH	147 N/A	0.0 Vs/m	1.5 A

	Max 'ON' time	Peak Force
100% ED	∞	222.0 N
50% ED	100 s	310.0 N
25% ED	35 s	440.0 N
10% ED	11 s	700.0 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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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

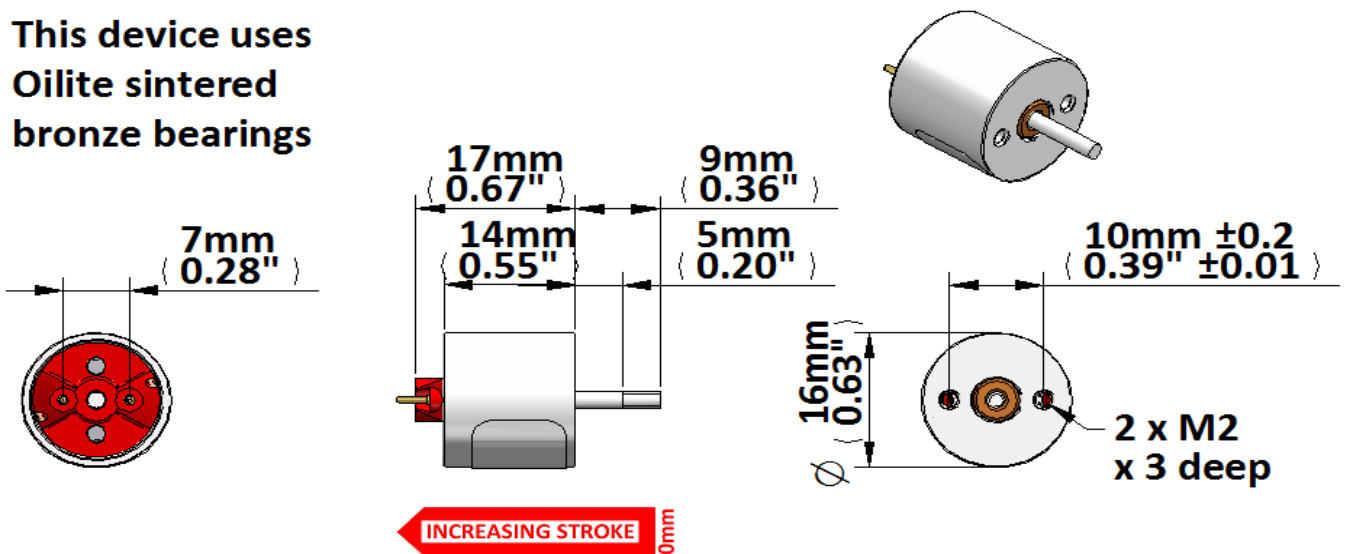
P_{100} 5 W
 T_{max} 130 °C

Total Mass 15 g
Coil Mass 3 g

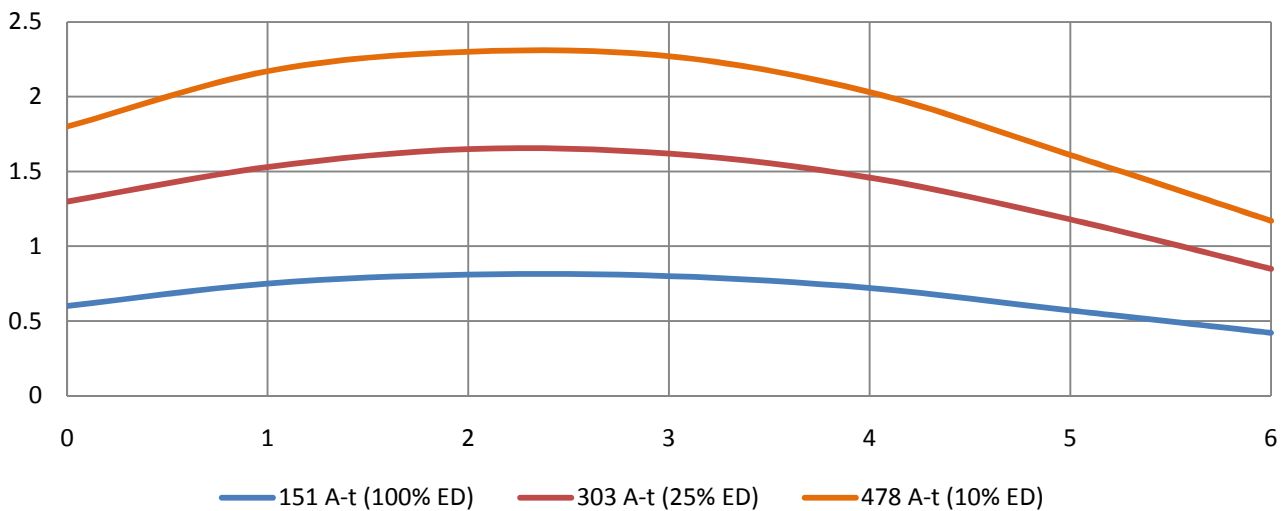
Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM1614-200	2.8 Ω	0.2 mH	0.7 N/A	0.7 Vs/m	1129 mA
VM1614-180	4.5 Ω	0.3 mH	0.7 N/A	0.8 Vs/m	891 mA
VM1614-125	16.3 Ω	0.0 mH	1.5 N/A	0.0 Vs/m	468 mA
VM1614-100	43.0 Ω	4.0 mH	2.4 N/A	2.4 Vs/m	288 mA

	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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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

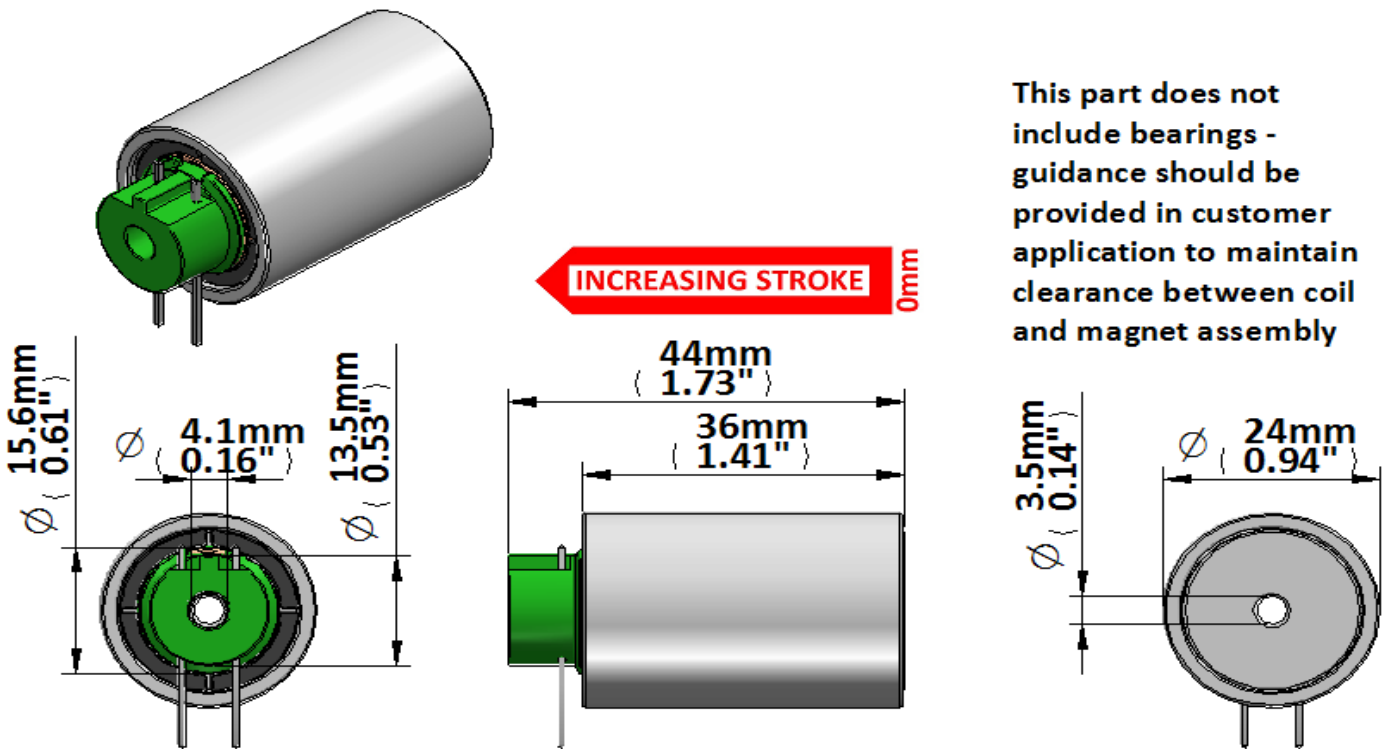
P_{100} 12.5 W
 T_{max} 130 °C

Total Mass 95 g
 Coil Mass 9 g

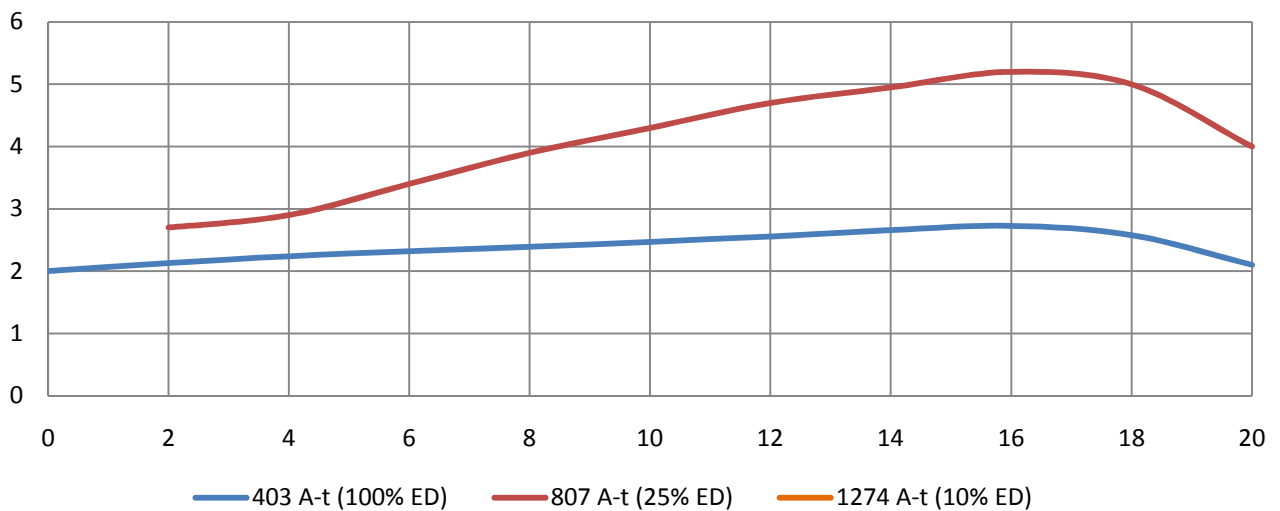
Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM2436-375	1.0 Ω	0.2 mH	0.7 N/A	0.0 Vs/m	2.99 A
VM2436-180	17.8 Ω	3.6 mH	2.9 N/A	0.0 Vs/m	708 mA
VM2436-112	107.0 Ω	22.0 mH	6.7 N/A	0.0 Vs/m	289 mA

	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

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]





GEEPLUS

VM2618 & VM2836

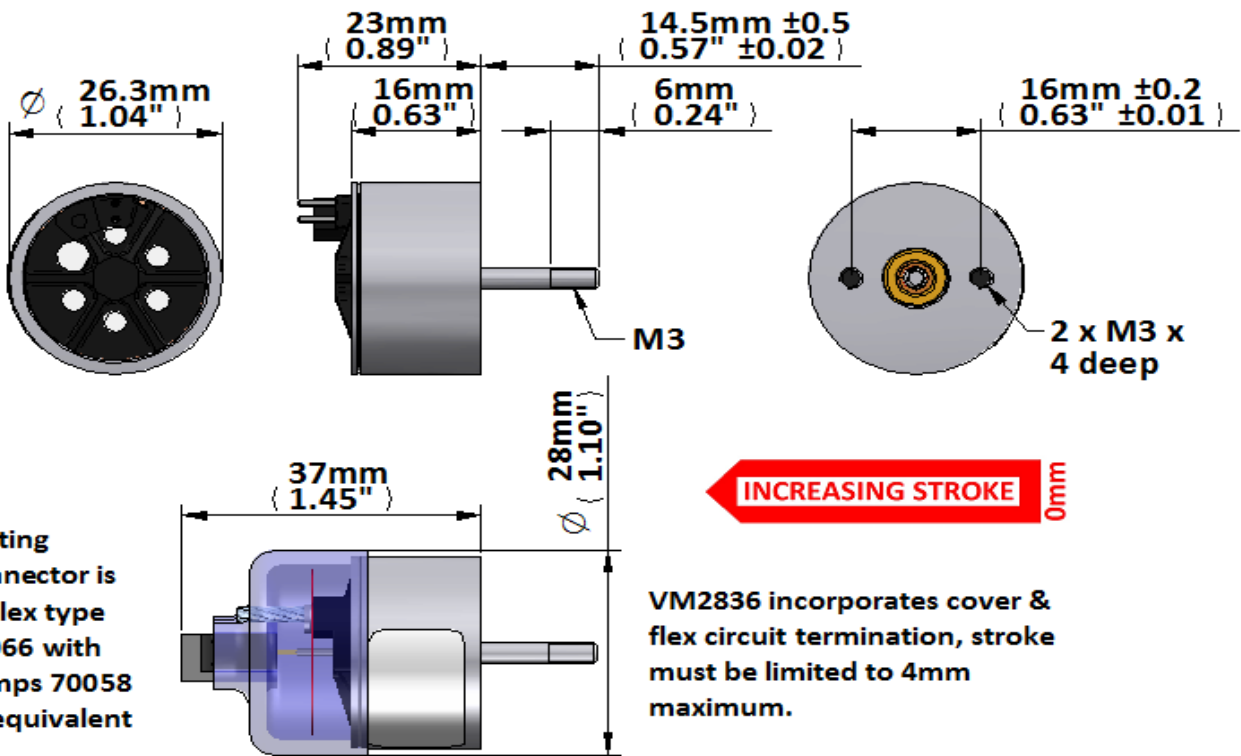
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 8 W
 T_{max} 130 °C

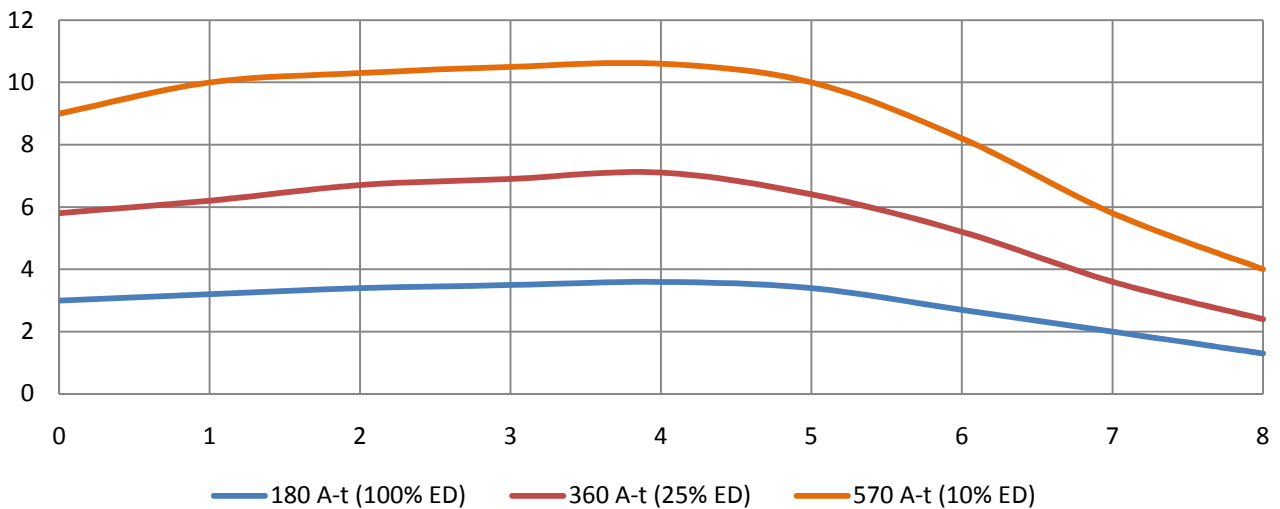
Total Mass 60 g
 Coil Mass 6 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM2xxx-180	9.6 Ω	1.3 mH	4 N/A	3.2 Vs/m	771 mA
VM2xxx-132	34.4 Ω	5.3 mH	8 N/A	8.1 Vs/m	407 mA
VM2xxx-112	55.0 Ω	7.3 mH	9 N/A	9.6 Vs/m	322 mA
VM2xxx-080	286.0 Ω	40.0 mH	21 N/A	22.0 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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VM3322 & VM3334

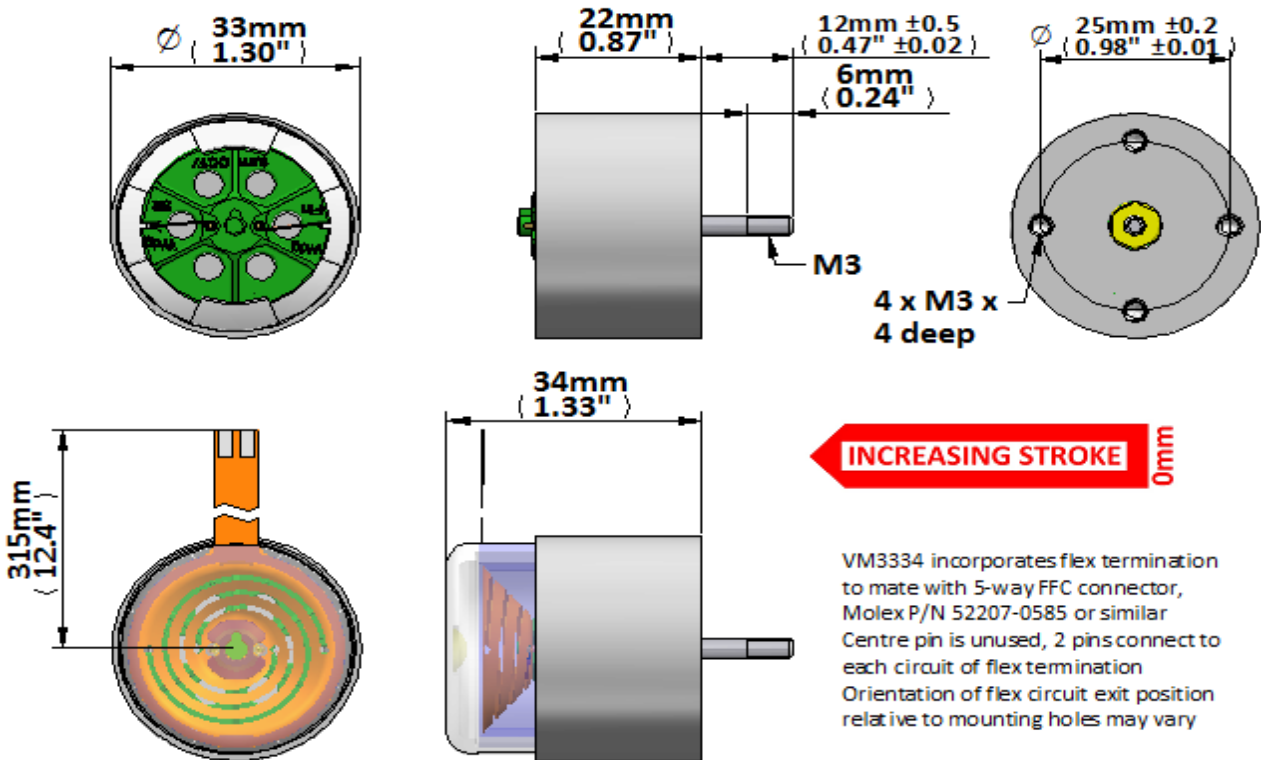
P_{100} is the continuous (100% ED) excitation power at which the coil attains temperature T_{max} with the part mounted to a massive heatsink at 20°C

P_{100} 8 W
 T_{max} 130 °C

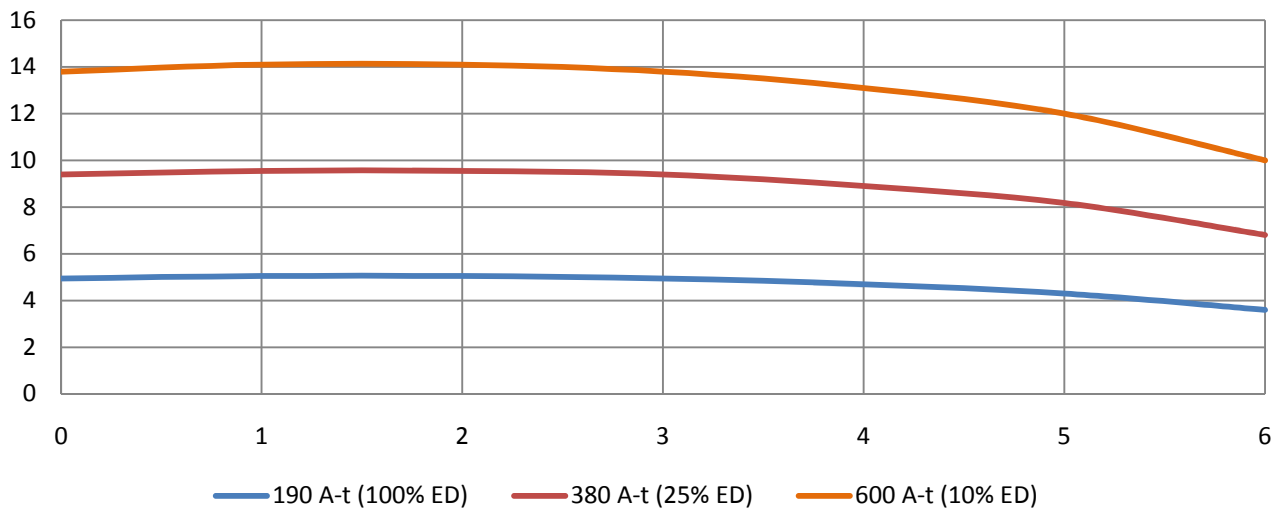
Total Mass 140 g
 Coil Mass 9 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM33xx-315	1.0 Ω	0.2 mH	2 N/A	0.0 Vs/m	2.4 A
VM33xx-180	10.9 Ω	3.0 mH	6 N/A	0.0 Vs/m	724 mA
VM33xx-125	47.7 Ω	13.0 mH	13 N/A	0.0 Vs/m	346 mA
VM33xx-090	173.0 Ω	44.0 mH	24 N/A	0.0 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



Force (N) vs Displacement (mm)



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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

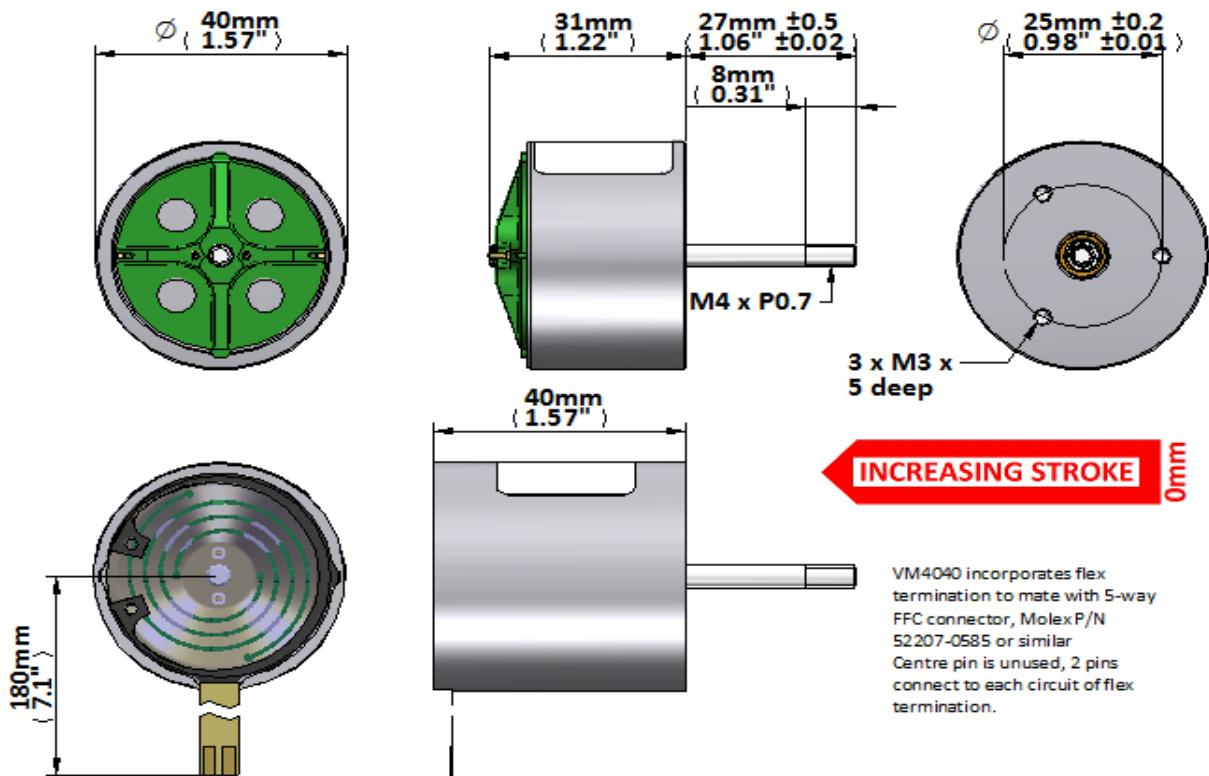
T_{max} 130 °C

Total Mass 230 g

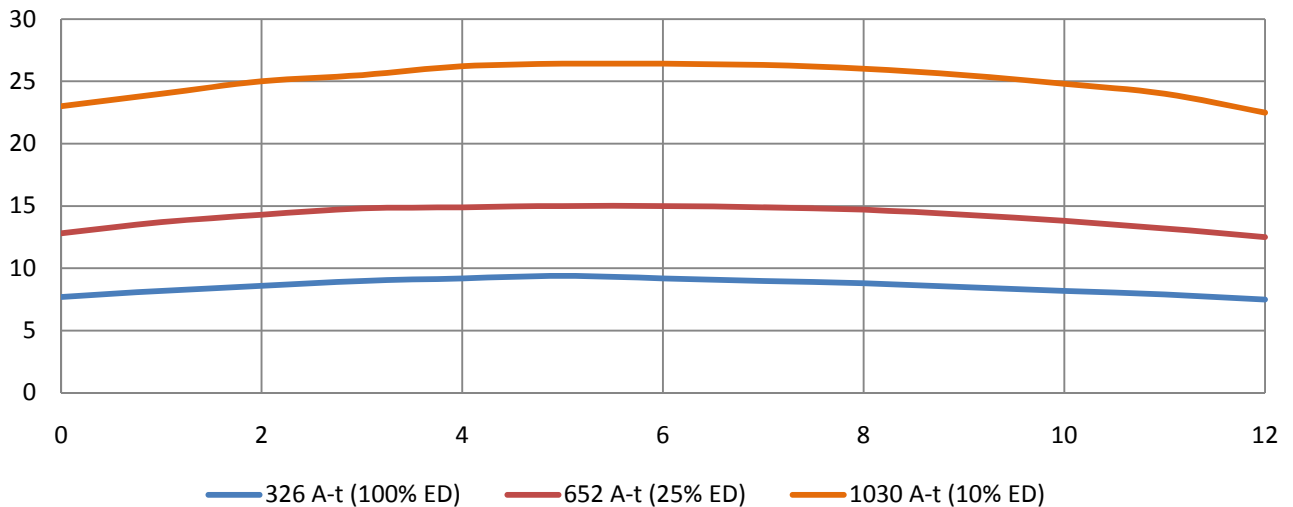
Coil Mass 25 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM40xx-315	4.3 Ω	1.5 mH	5 N/A	6.4 Vs/m	1.6 A
VM40xx-250	12.8 Ω	5.2 mH	10 N/A	11.2 Vs/m	0.9 A
VM40xx-200	26.0 Ω	7.8 mH	12 N/A	14.4 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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VM4632

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} **21 W**

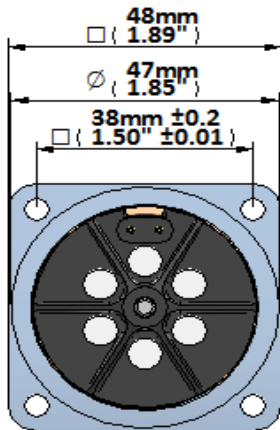
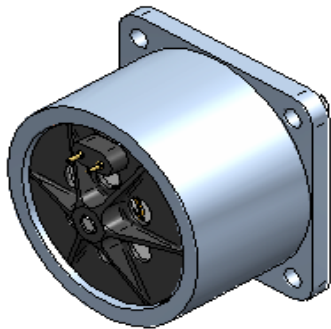
T_{max} **130 °C**

Total Mass 360 g

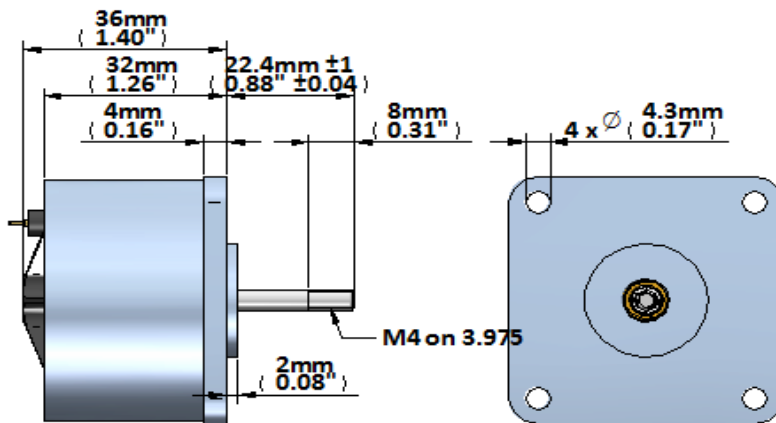
Coil Mass 23 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM4632-355	2.5 Ω	0.8 mH	6 N/A	5.3 Vs/m	2.5 A
VM4632-250	10.1 Ω	3.7 mH	13 N/A	12.4 Vs/m	1.2 A
VM4632-200	24.5 Ω	9.7 mH	20 N/A	18.7 Vs/m	0.8 A
VM4632-180	35.0 Ω	12.1 mH	23 N/A	21.0 Vs/m	0.7 A

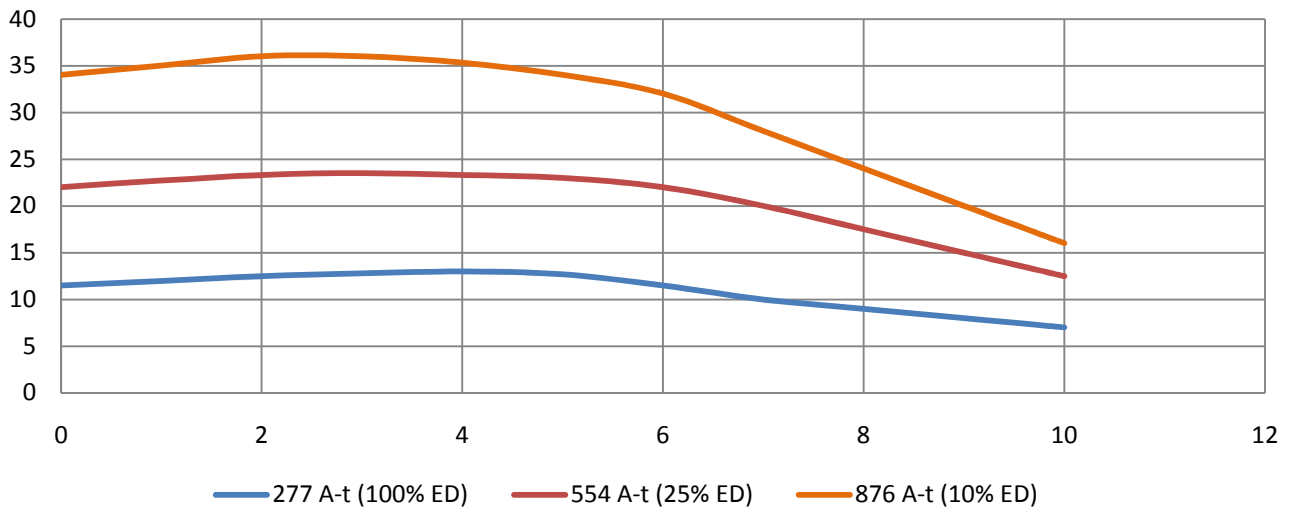
	Max 'ON' time	Peak Force
100% ED	∞	13.0 N
50% ED	27 s	16.0 N
25% ED	10 s	23.5 N
10% ED	3 s	36.0 N



INCREASING STROKE 0mm



Force (N) vs Displacement (mm)



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GEEPLUS

VM5042 & VM5050

P₁₀₀ 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

P₁₀₀ 24 W

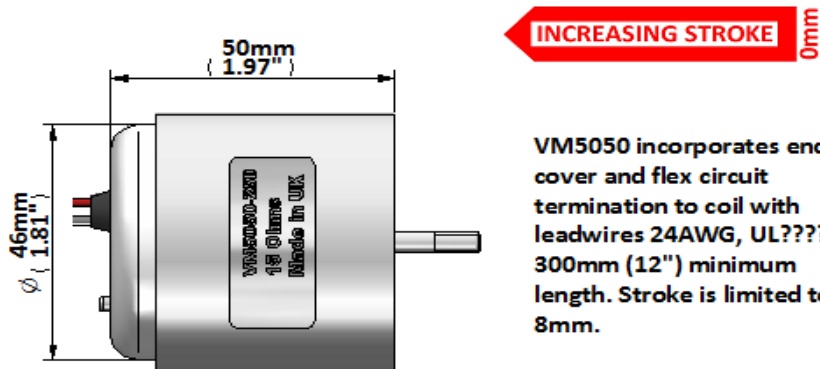
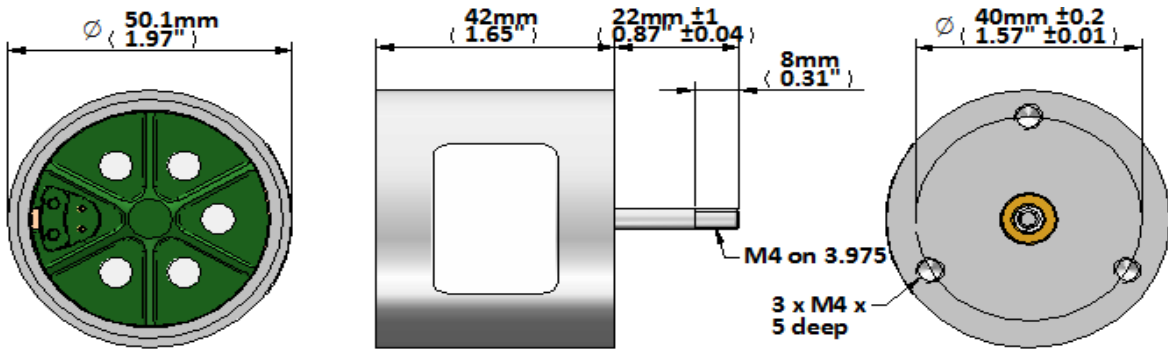
T_{max} 130 °C

Total Mass 480 g

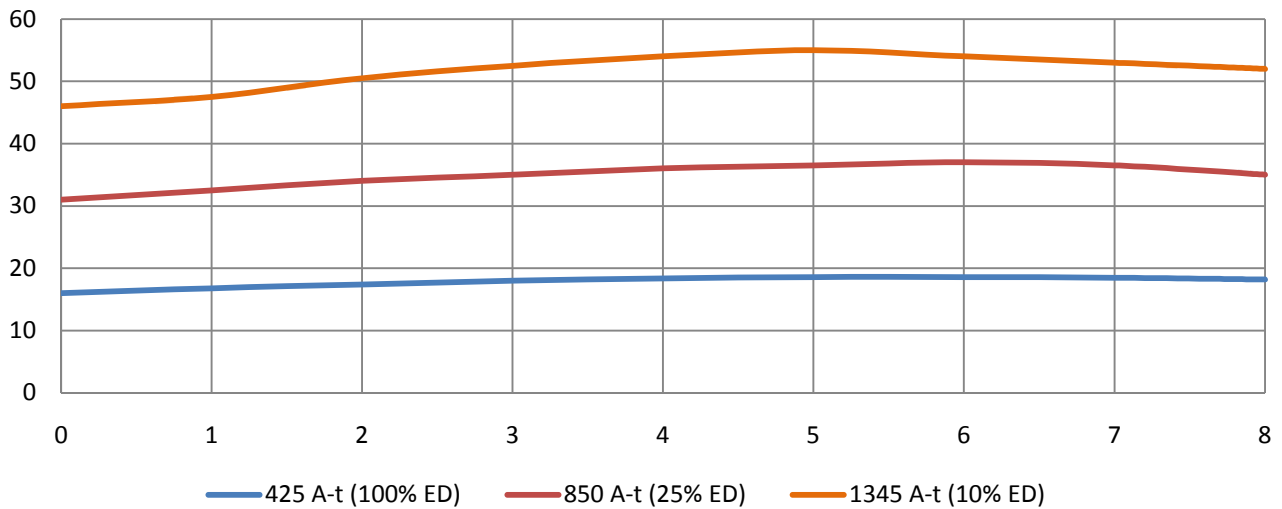
Coil Mass 35 g

Model No.	Resistance R ₂₀	Inductance	Force Constant	Velocity Constant	Current I ₁₀₀
VM50xx-400	2.5 Ω	1.3 mH	7 N/A	8.0 Vs/m	2.6 A
VM50xx-250	15.0 Ω	5.6 mH	17 N/A	19.5 Vs/m	1.1 A
VM50xx-190	45.0 Ω	20.0 mH	30 N/A	35.0 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



Force (N) vs Displacement (mm)



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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

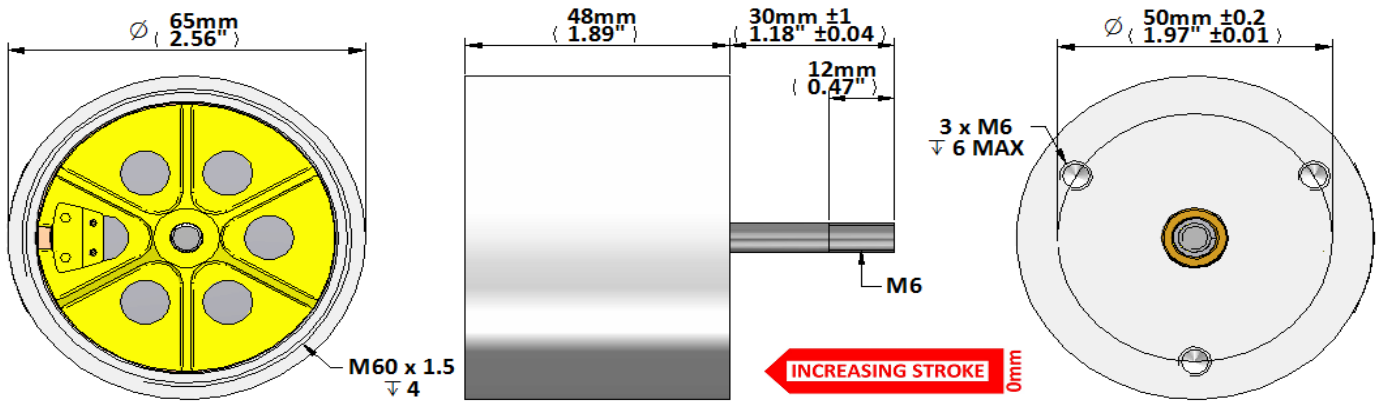
T_{max} 130 °C

Total Mass 950 g

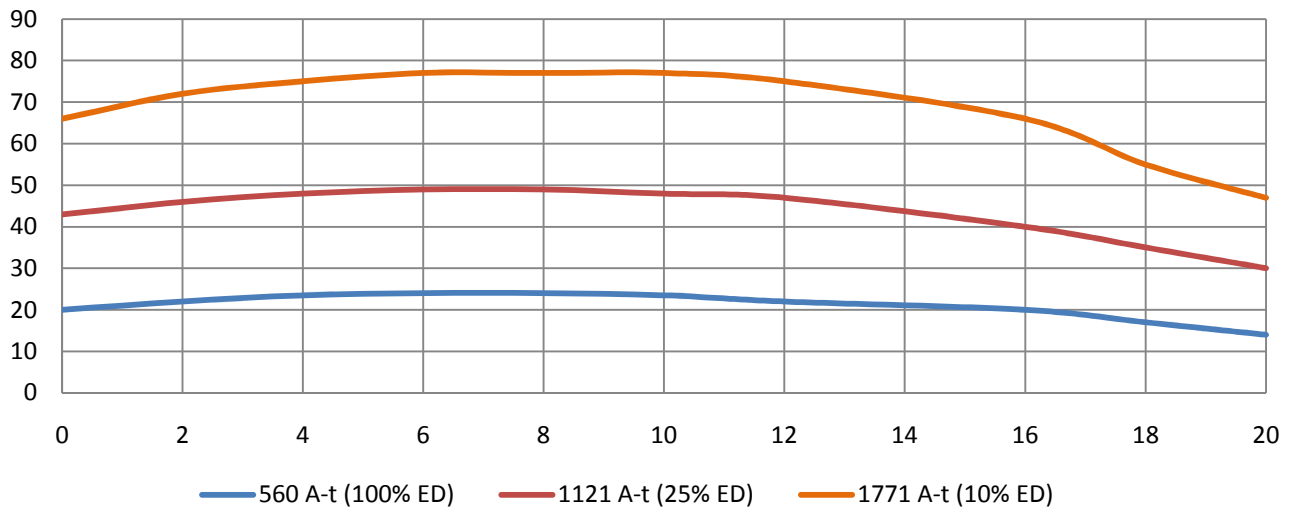
Coil Mass 90 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM6548-400	7.8 Ω	7.4 mH	19 N/A	22.0 Vs/m	1.6 A
VM6548-315	23.3 Ω	12.0 mH	32 N/A	36.0 Vs/m	0.9 A
VM6548-200	121.0 Ω	96.0 mH	72 N/A	80.0 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

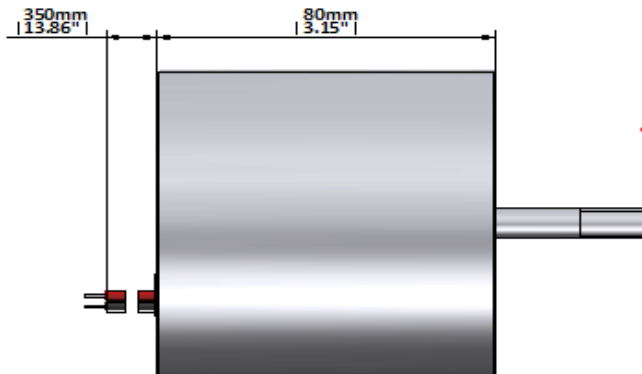
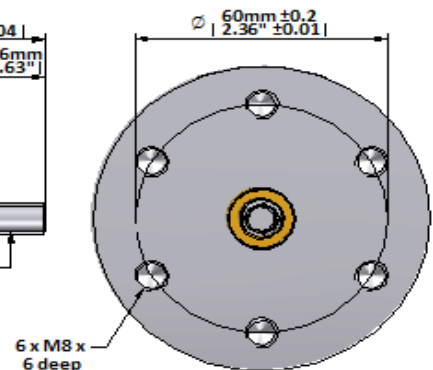
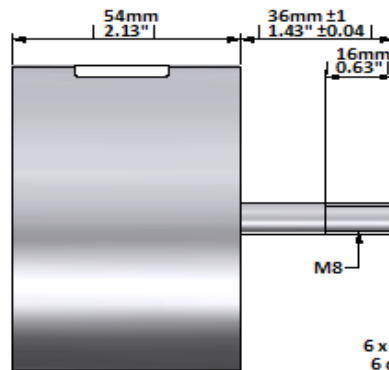
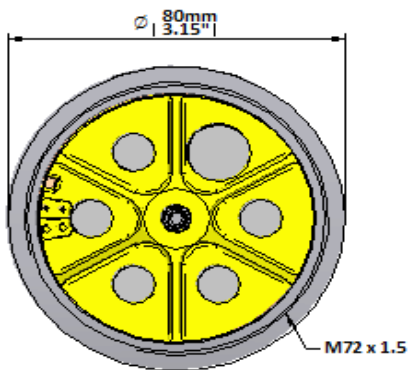
Total Mass 1700 g

T_{max} 130 °C

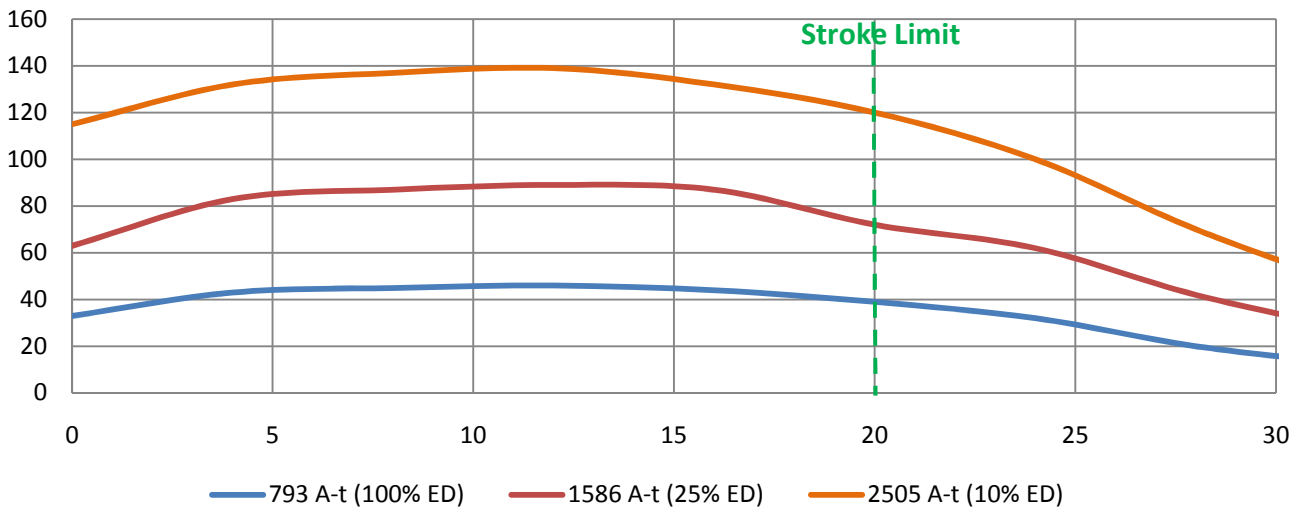
Coil Mass 150 g

Model No.	Resistance R_{20}	Inductance	Force Constant	Velocity Constant	Current I_{100}
VM80xx-630	2.3 Ω		10 N/A		3.9 A
VM80xx-400	11.5 Ω	10.6 mH	24 N/A	34.0 Vs/m	1.8 A
VM80xx-250	85.0 Ω	77.0 mH	62 N/A	86.0 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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