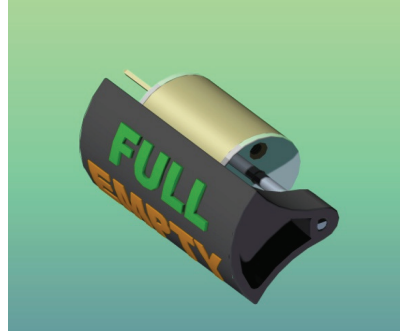




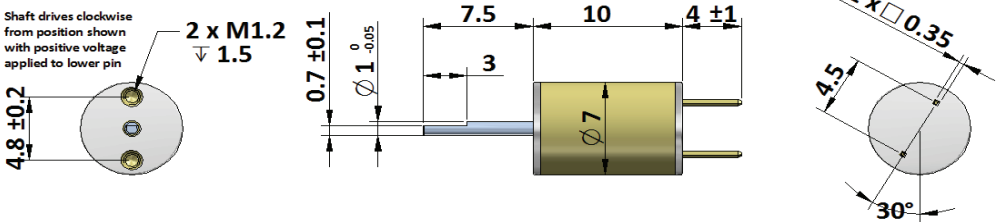
GEEPLUS

BRS0710-9.5

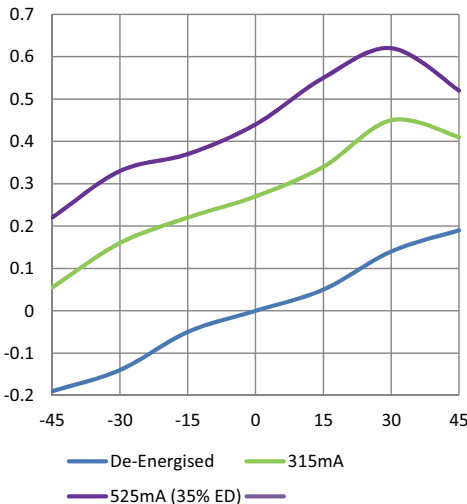
Device drawn with shaft aligned to mid position  
 Nominal 9.5Ω, 180mH for operation at 315mA, 100%ED  
 Rotor Inertia 0.15 gmm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 60° rotation  
 Mass 1.5 grammes  
 Insulation Resistance >5MΩ, 500VDC Megger  
 Dielectric Strength 250vAC, 50/60Hz, 1 minute



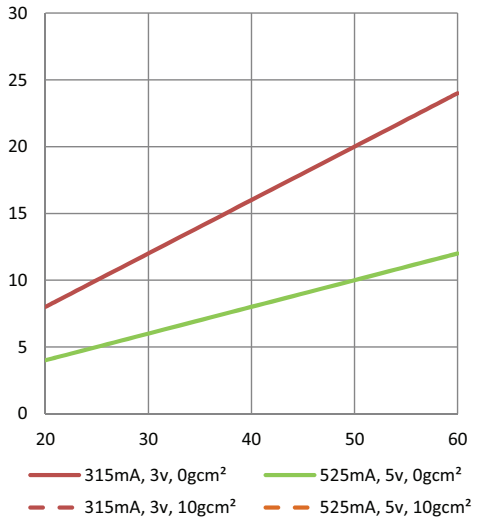
Shaft drives clockwise  
 from position shown  
 with positive voltage  
 applied to lower pin



Torque (mNm) vs Angle



Response (ms) vs Angle



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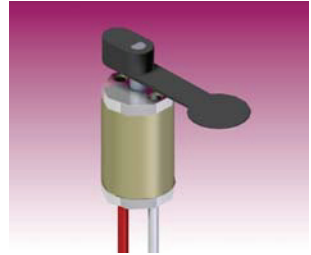
www.geeplus.biz e-mail: info@geeplus.biz



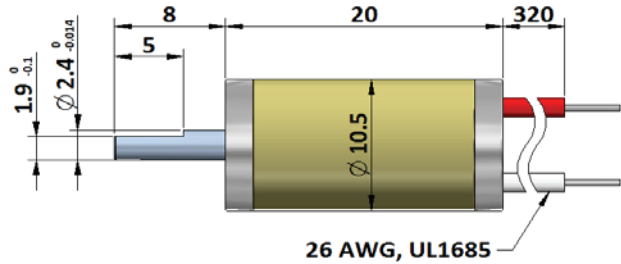
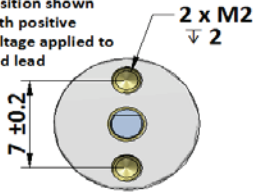
GEEPLUS

BRS1020-13

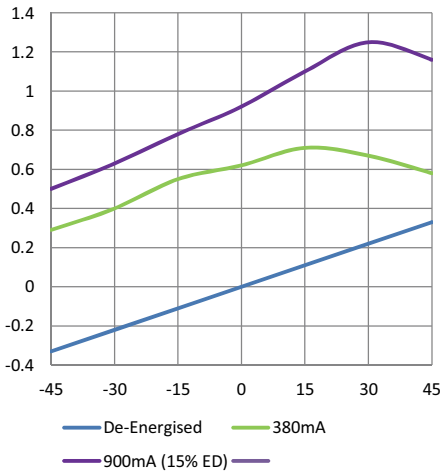
Device drawn with shaft aligned to mid position  
 Nominal  $13\Omega$ ,  $0.6mH$  for operation at  $380mA$ ,  $100\%ED$   
 Rotor Inertia  $0.017 gcm^2$   
 Life Expectancy  $>10M$  cycles, no load,  $60^\circ$  rotation  
 Mass 8 grammes  
 Insulation Resistance  $>100M\Omega$ ,  $500VDC$  Megger  
 Dielectric Strength  $500vAC$ ,  $50/60Hz$ , 1 minute



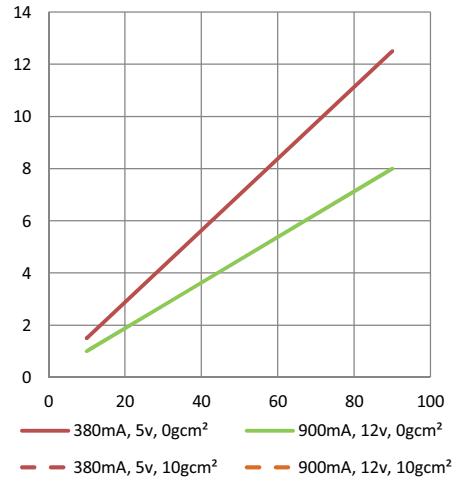
Shaft drives clockwise from position shown with positive voltage applied to Red lead



Torque (mNm) vs Angle



Response (ms) vs Angle

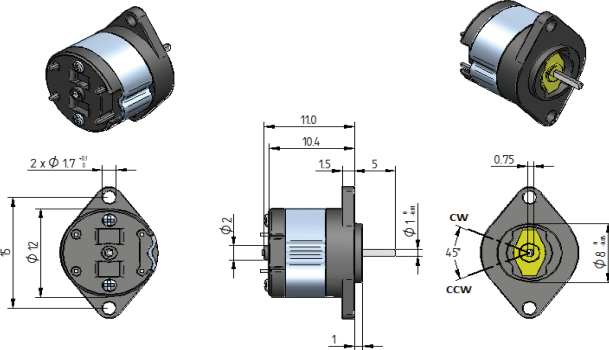
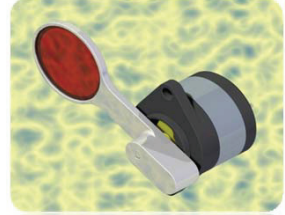




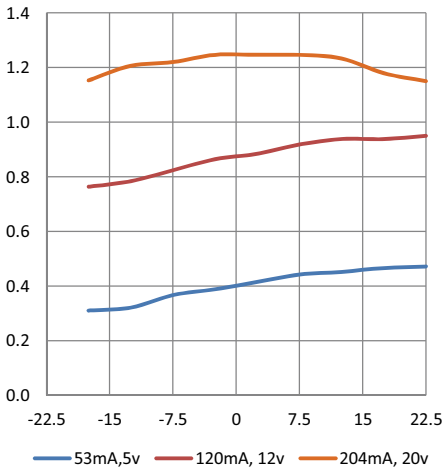
GEEPLUS

BRS1212-95

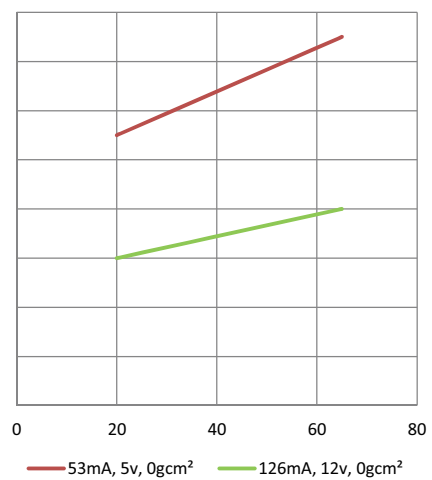
Device drawn with shaft aligned to mid position  
 Nominal 95Ω parallel, 380Ω series connection  
 Rotor Inertia 0.xxx gcm<sup>2</sup>  
 Life Expectancy >1M cycles, no load, 30° rotation  
 Mass 3.5 grammes  
 Insulation Resistance >50MΩ, 500VDC Megger  
 Dielectric Strength 300vAC, 50/60Hz, 1 second



Torque (mNm) vs Angle



Response (ms) vs Angle

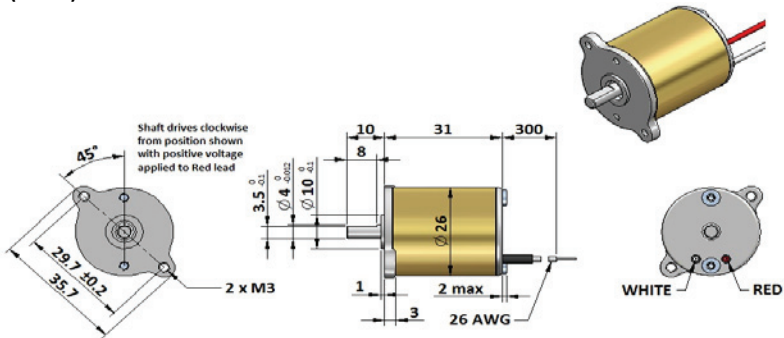




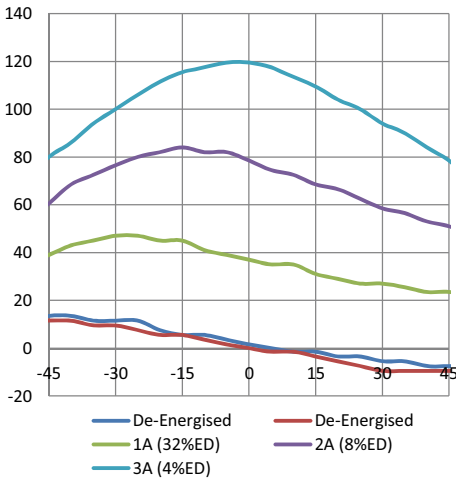
GEEPLUS

BRS2631

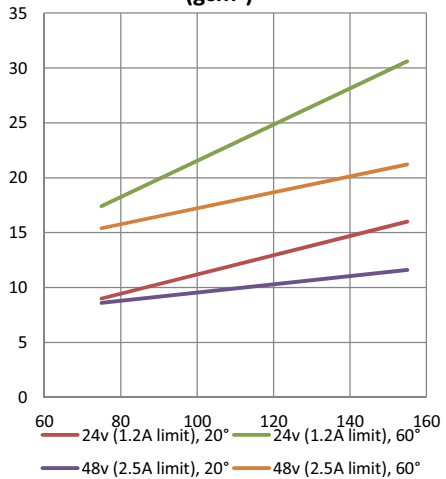
Device drawn with shaft aligned to mid position  
 Nominal  $15.6\Omega$ ,  $3.8\text{mH}$  for operation at  $12\text{V}$ ,  $40\%\text{ED}$   
 Rotor Inertia  $2.1\text{ gcm}^2$   
 Life Expectancy  $>10\text{M}$  cycles, no load,  $60^\circ$  rotation  
 Mass  $70$  grammes  
 Insulation Resistance  $>100\text{M}\Omega$ ,  $500\text{VDC}$  Megger  
 Dielectric Strength  $1000\text{vAC}$ ,  $50/60\text{Hz}$ ,  $1$  minute  
 Class E ( $120^\circ\text{C}$ ) insulation class



Torque (mNm) vs Angle



Response (ms) vs Load Inertia ( $\text{gcm}^2$ )

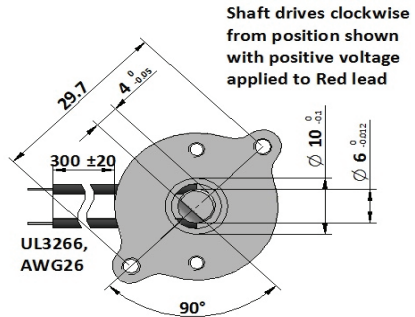
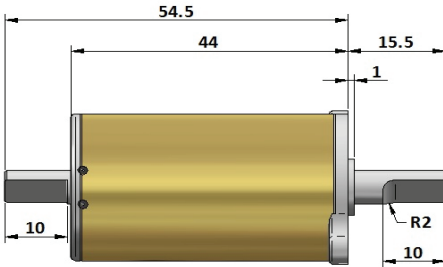




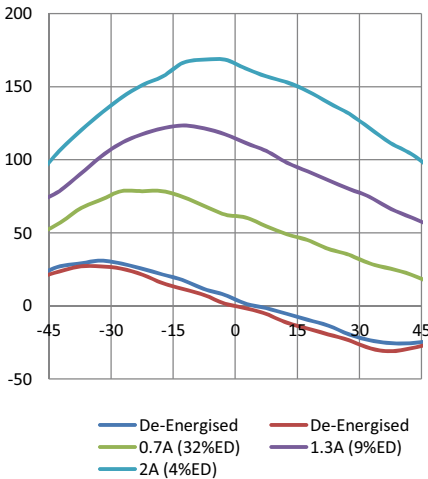
GEEPLUS

BRS2644

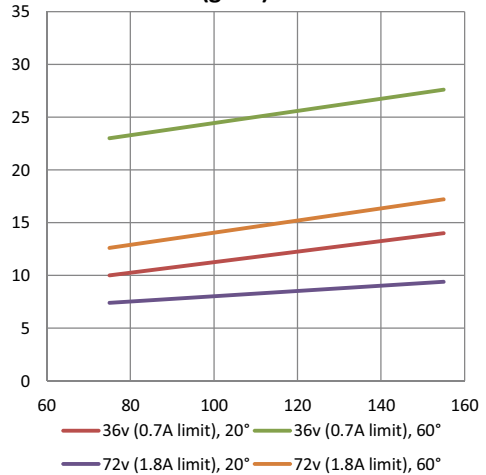
Device drawn with shaft aligned to mid position  
 Nominal 32Ω, 140mH for operation at 12V, 100%ED  
 Rotor Inertia 2.1 gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 60° rotation  
 Mass 80 grammes  
 Insulation Resistance >100MΩ, 500VDC Megger  
 Dielectric Strength 1000vAC, 50/60Hz, 1 minute  
 Class E (120°C) insulation class



Torque (mNm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)

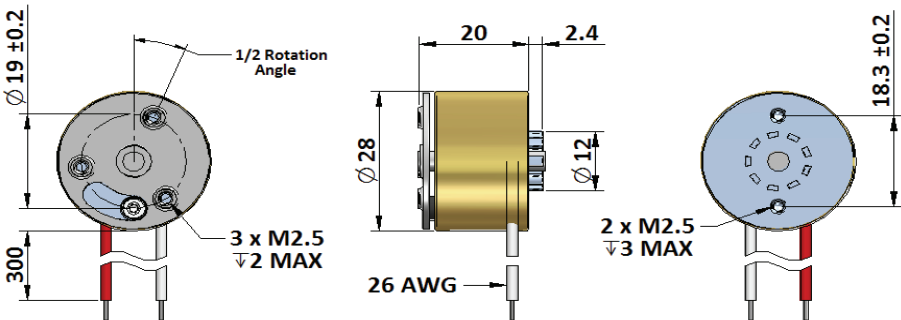




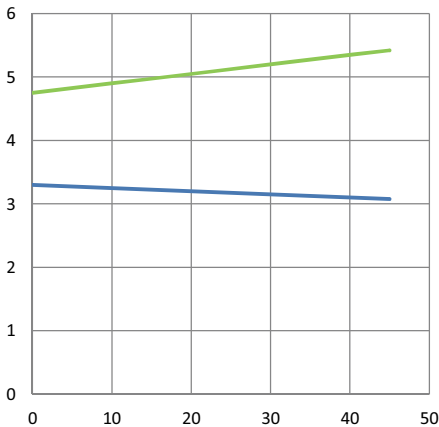
GEEPLUS

BRS2820-xxCCW-yy

xx in P/N is rotation angle (25, 35, 45 CW & CCW)  
 yy in P/N is nominal voltage (12v, 27.5Ω or 24v, 110Ω)  
 Rotor Inertia 1.8 gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load  
 Mass 50 grammes  
 Insulation Resistance >100MΩ, 500VDC Megger  
 Dielectric Strength 1000vAC, 50/60Hz, 1 minute  
 Class E (120°C) insulation class

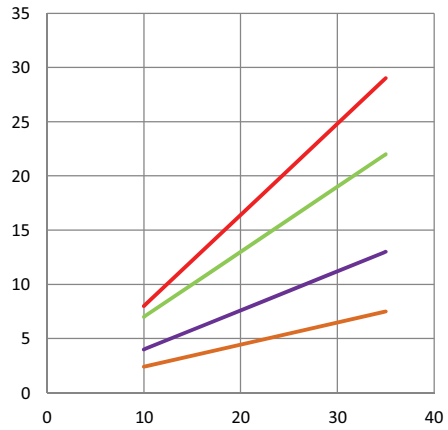


Torque (mNm) vs Angle



Return Spring 5W (100% ED)

Response (ms) vs Angle



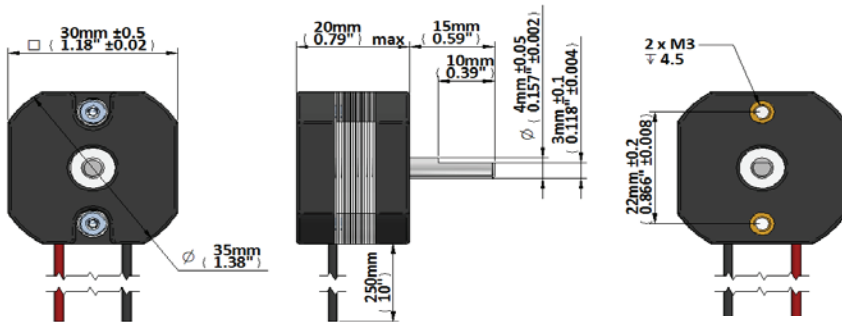
Spring Only 1W 5W 21W



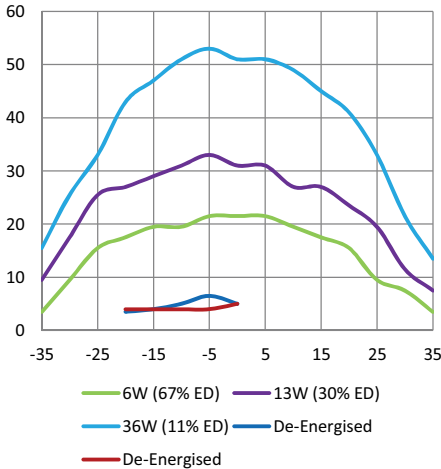
GEEPLUS

RM301-4P-06

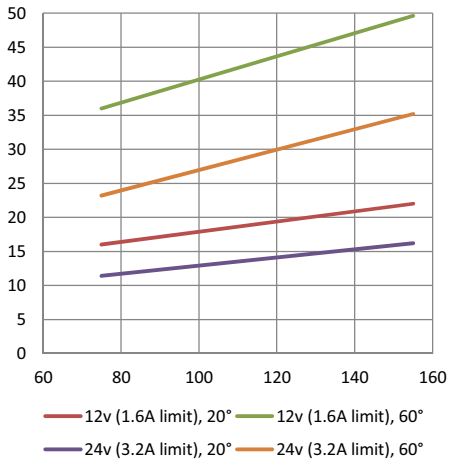
Device drawn with shaft aligned to mid position  
 Suffix 06, 12, 24 for operation at 6v, 12v, 24v, 100%ED  
 Rotor Inertia 2.1 gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 30° rotation  
 Mass 62 grammes  
 Insulation Resistance >50MΩ, 500VDC Megger  
 Dielectric Strength 500vAC, 50/60Hz, 1 minute  
 Class E (120°C) insulation class



Torque (mNm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)

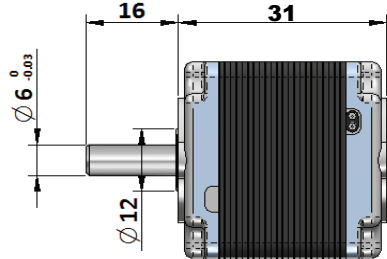
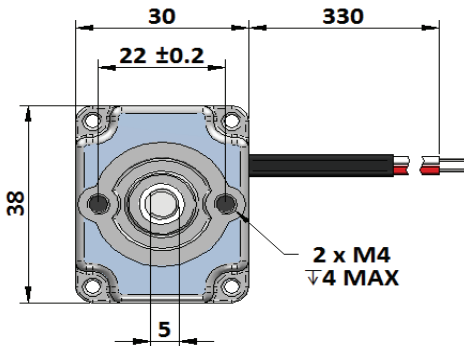




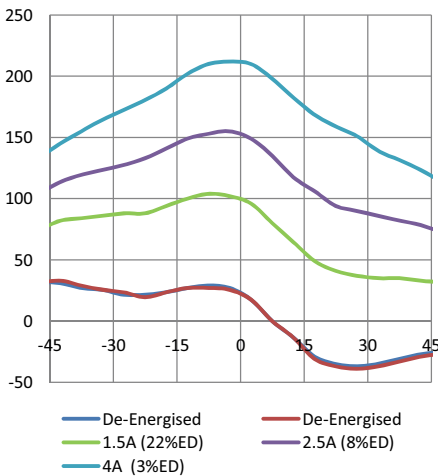
GEEPLUS

BRS3831-10

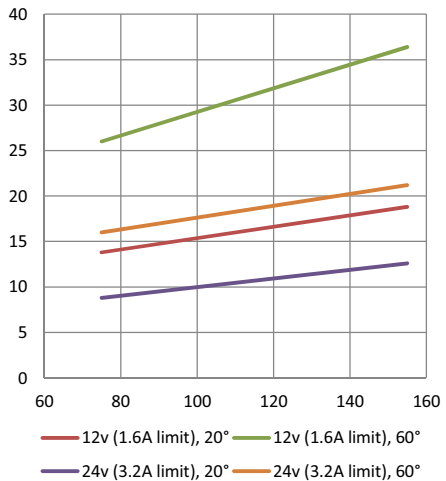
Device drawn with shaft aligned to mid position  
 Nominal 10Ω, 10mH (at 0°) for operation at 24v, 9%ED  
 Rotor Inertia 6.5 gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 30° rotation  
 Turns CW from position shown, +ve applied to Red lead  
 Leadwires AWG24 stranded leads  
 Mass 190 grammes



Torque (mNm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)



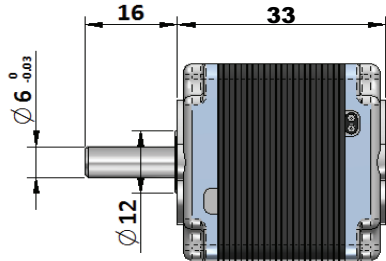
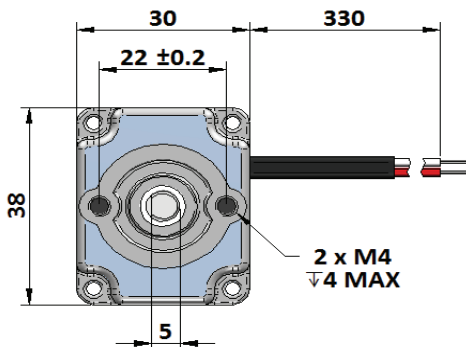
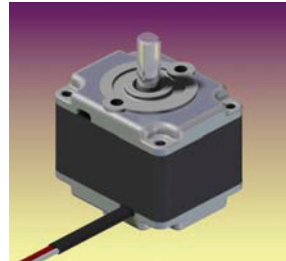




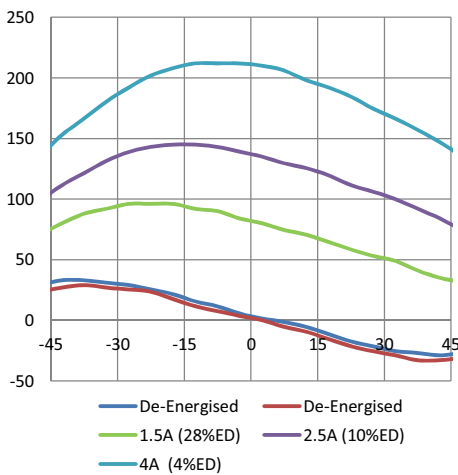
**GEEPLUS**

**BRS3833-8**

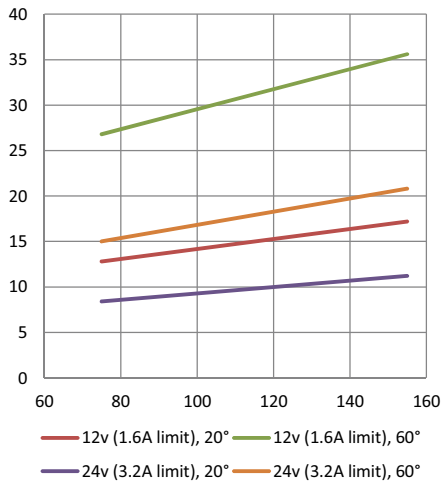
Device drawn with shaft aligned to mid position  
 Nominal 8Ω, 9mH(at 0°) for operation at 24v, 7%ED  
 Rotor Inertia 7.2 gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 30° rotation  
 Turns CW from position shown, +ve applied to Red lead  
 Leadwires AWG24 stranded leads  
 Mass 190 grammes



**Torque (mNm) vs Angle**



**Response (ms) vs Load Inertia (gcm<sup>2</sup>)**

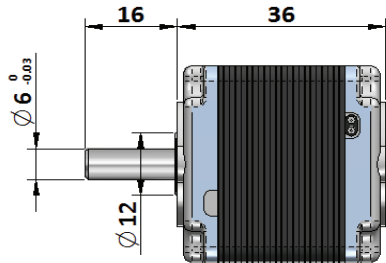
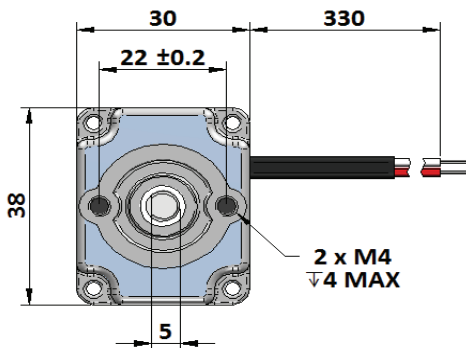




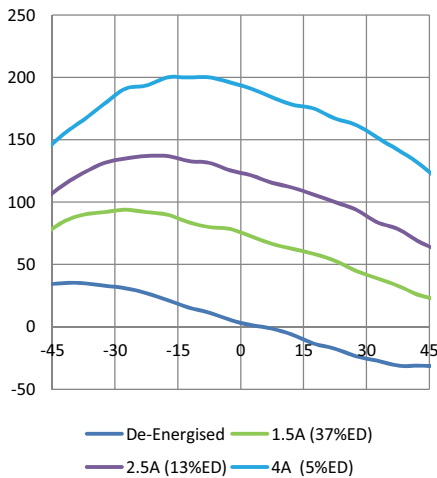
GEEPLUS

BRS3836-6

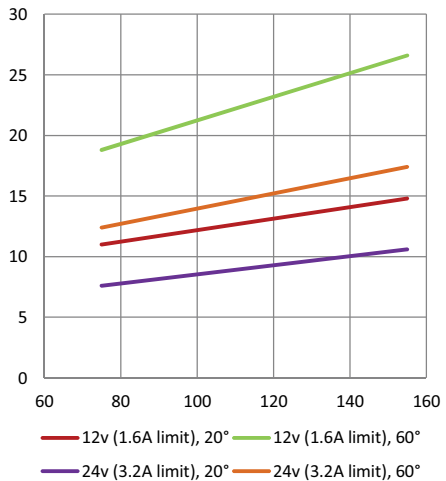
Device drawn with shaft aligned to mid position  
 Nominal 6Ω, 6mH (At 0°) for operation at 24v, 5%ED  
 Rotor Inertia 8.4 gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 30° rotation  
 Turns CW from position shown, +ve applied to Red lead  
 Leadwires AWG24 stranded leads  
 Mass 190 grammes



Torque (mNm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)

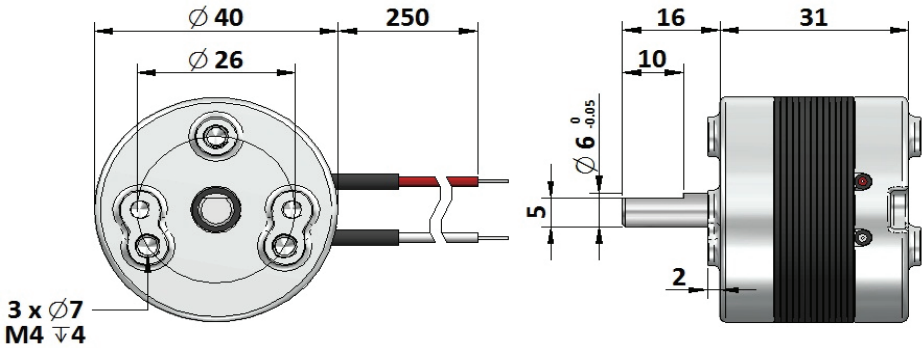




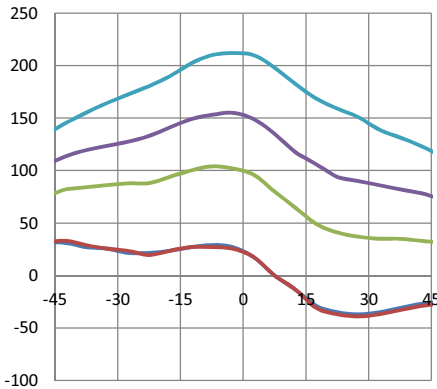
GEEPLUS

BRS40C31-10

Device drawn with shaft aligned to mid position  
Nominal  $10\Omega$ ,  $8\text{mH}$  (At  $0^\circ$ ) for operation at  $24\text{v}$ ,  $9\%\text{ED}$   
Rotor Inertia  $6.5\text{ gcm}^2$   
Life Expectancy  $>10\text{M}$  cycles, no load,  $30^\circ$  rotation  
Turns CW from position shown, +ve applied to Red lead  
Leadwires AWG24 stranded leads  
Mass  $155\text{ grammes}$

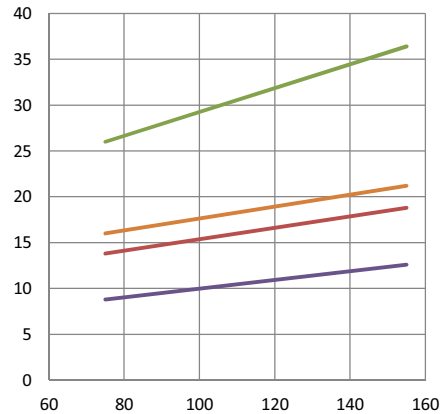


Torque (mNm) vs Angle



— De-Energised — De-Energised  
— 1.5A (22%ED) — 2.5A (8%ED)  
— 4A (3%ED)

Response (ms) vs Load Inertia ( $\text{gcm}^2$ )



— 12v (1.6A limit),  $20^\circ$  — 12v (1.6A limit),  $60^\circ$   
— 24v (3.2A limit),  $20^\circ$  — 24v (3.2A limit),  $60^\circ$

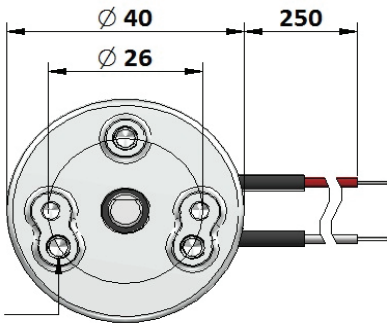
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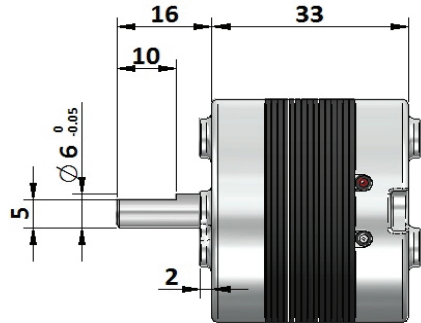
GEEPLUS

BRS40C33-8

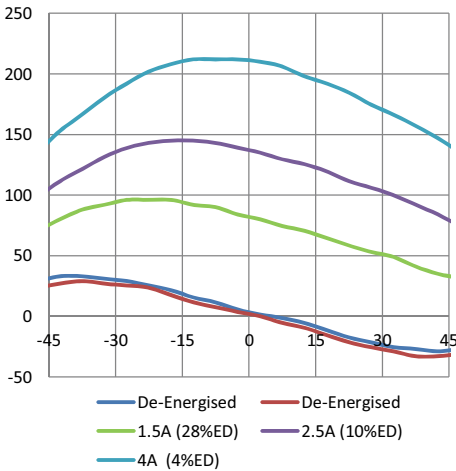
Device drawn with shaft aligned to mid position  
Nominal 8Ω, 7mH (At 0°) for operation at 24v, 7%ED  
Rotor Inertia 7.2 gcm<sup>2</sup>  
Life Expectancy >10M cycles, no load, 30° rotation  
Turns CW from position shown, +ve applied to Red lead  
Leadwires AWG24 stranded leads  
Mass 165 grammes



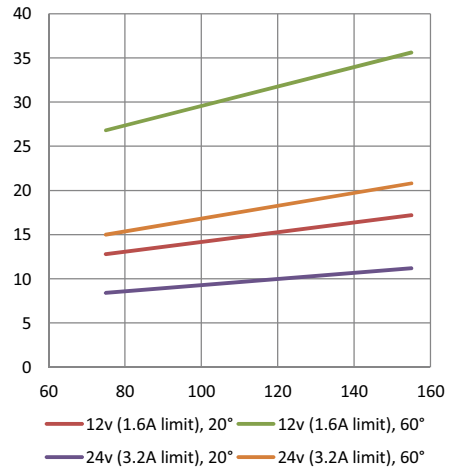
3 x  $\varnothing 7$   
M4  $\nabla 4$



Torque (mNm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)

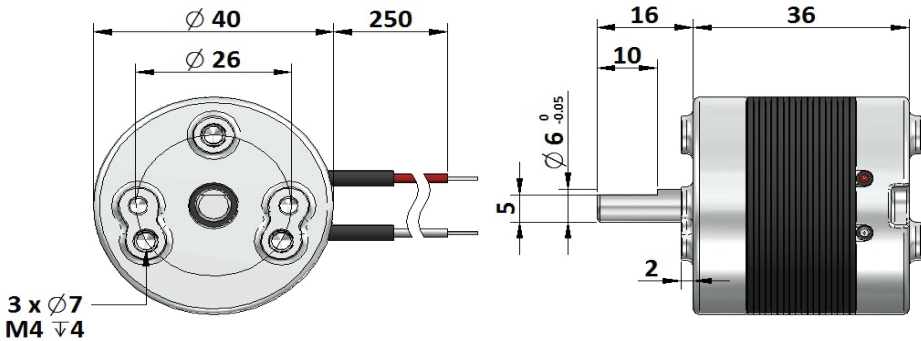




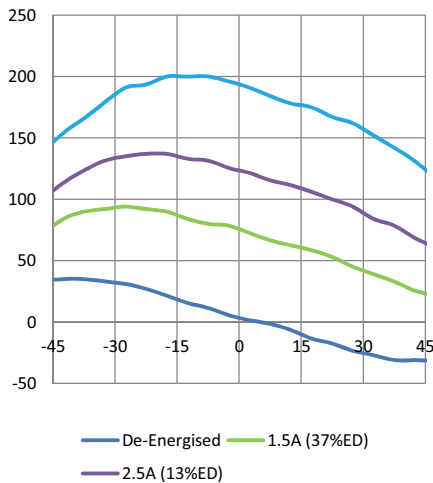
GEEPLUS

BRS40C36-6

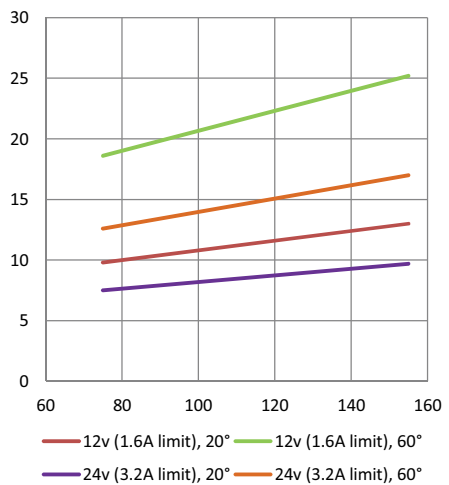
Device drawn with shaft aligned to mid position  
Nominal 6Ω, 5mH for operation at 24v, 5%ED  
Rotor Inertia 8.4 gcm<sup>2</sup>  
Life Expectancy >10M cycles, no load, 30° rotation  
Turns CW from position shown, +ve applied to Red lead  
Leadwires AWG24 stranded leads  
Mass 175 grammes



Torque (mNm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)



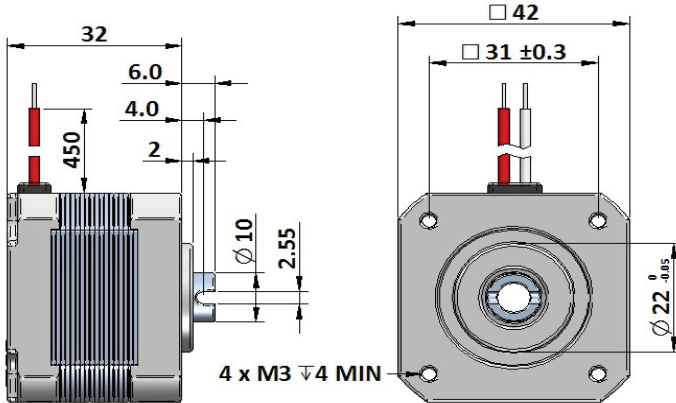
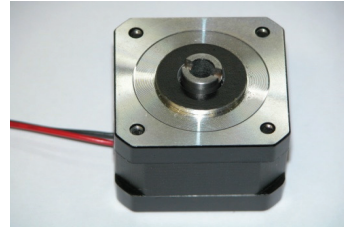
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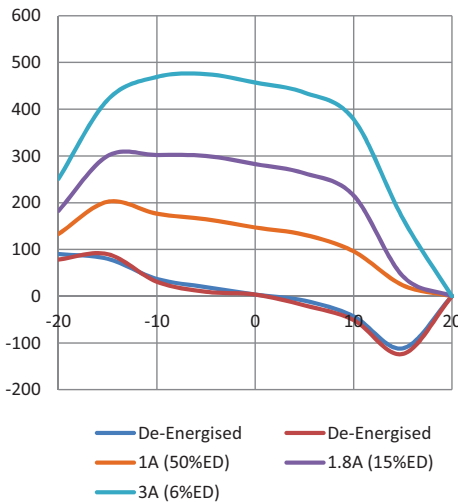
GEEPLUS

BRS4232-6-10

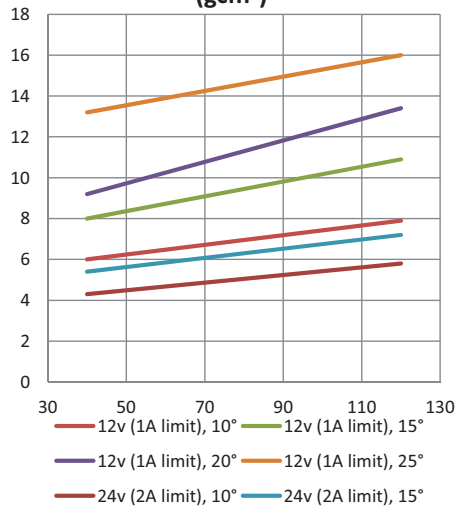
Device drawn with shaft aligned to mid position  
 Nominal 10Ω, 10mH for operation at 12v, 50%ED  
 Rotor Inertia 36 gcm<sup>2</sup>  
 Life Expectancy >20M cycles, no load, 20° rotation  
 Turns CW from position shown, +ve applied to Red lead  
 JST B2P-VH (Lead Assy supplied with 450mm, AWG20)  
 Mass 150 grammes



Torque (mNm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)



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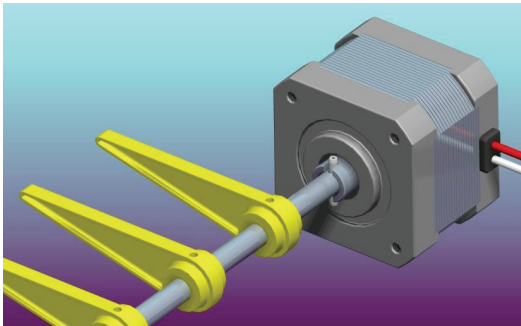
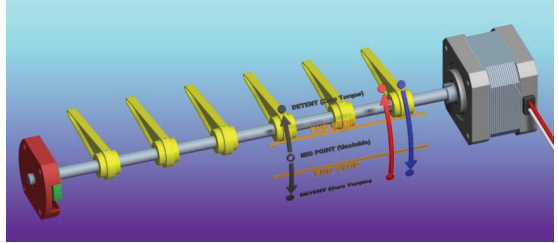
www.geeplus.biz e-mail: info@geeplus.biz



## BRS42xx for Diverter Applications

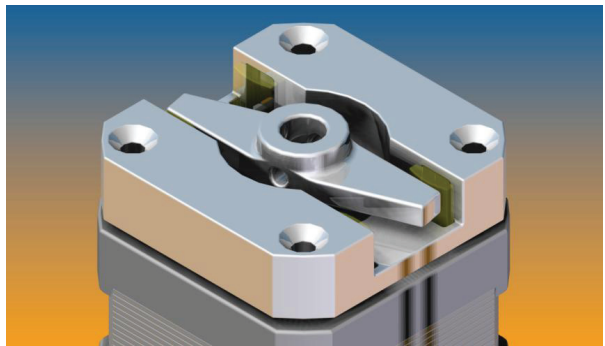
The BRS42 Bistable Rotary Solenoid is designed for fast, limited angle actuation of diverter gates in paper, banknote, or document handling equipment.

Implementation of diverter designs is simplified with reduced installation time and cost, and with reduced energy consumption reducing system heat dissipation and running costs.



The solenoid incorporates bearings to support the shaft of diverter mechanism on one side of the machine, and is designed for simple assembly where the solenoid is fitted over the end of the diverter shaft, and engages with a roll pin fitted through the shaft to transmit torque.

The user must implement end stops within the diverter mechanism to limit rotation within the operating region of the solenoid. End stop design needs to take consideration of rebound of the diverter gate from the stop which can compromise operation.



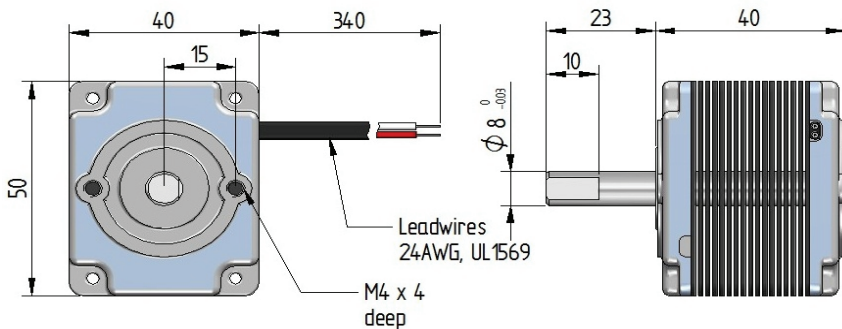
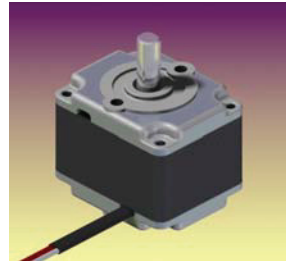
For most consistent operation the device should be energised with a constant current driver.



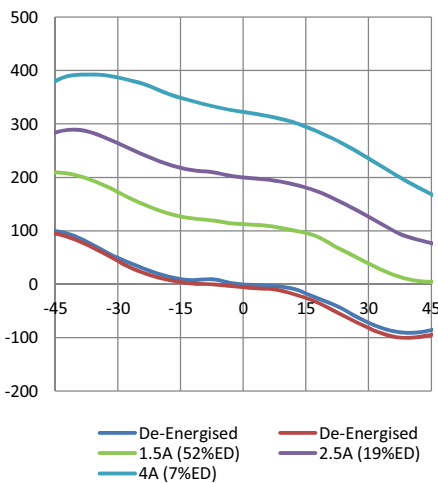
GEEPLUS

BRS5040-6

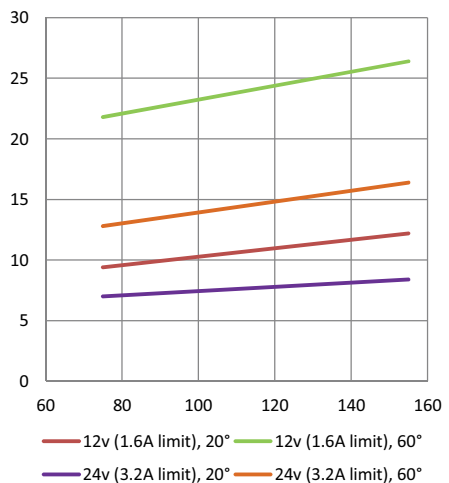
Device drawn with shaft aligned to mid position  
 Nominal 6Ω, 5mH for operation at 24v, 7%ED  
 Rotor Inertia ? gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 30° rotation  
 Turns CW from position shown, +ve applied to Red lead  
 Leadwires AWG24 stranded leads  
 Mass 190 grammes



Torque (mNm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)



Geeplus reserves the right to change specifications without notice

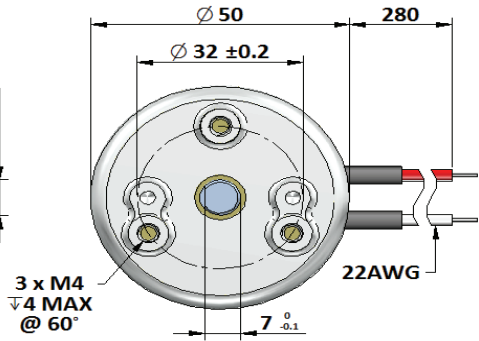
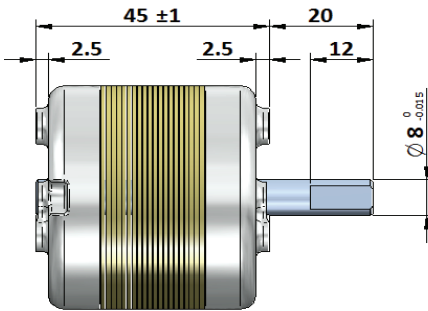




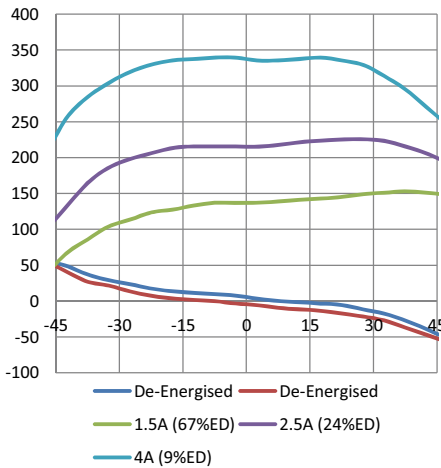
GEEPLUS

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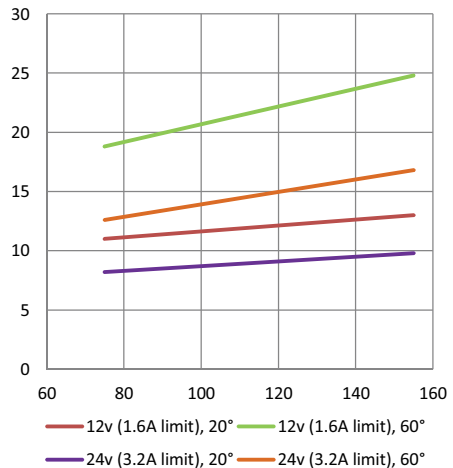
Device drawn with shaft aligned to mid position  
 Nominal 6.2Ω, 15mH for operation at 12V, 40%ED  
 Rotor Inertia 18 gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 60° rotation  
 Mass 280 grammes  
 Insulation Resistance >100MΩ, 500VDC Megger  
 Dielectric Strength 1000vAC, 50/60Hz, 1 minute  
 Class E (120°C) insulation class



Torque (mNm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)

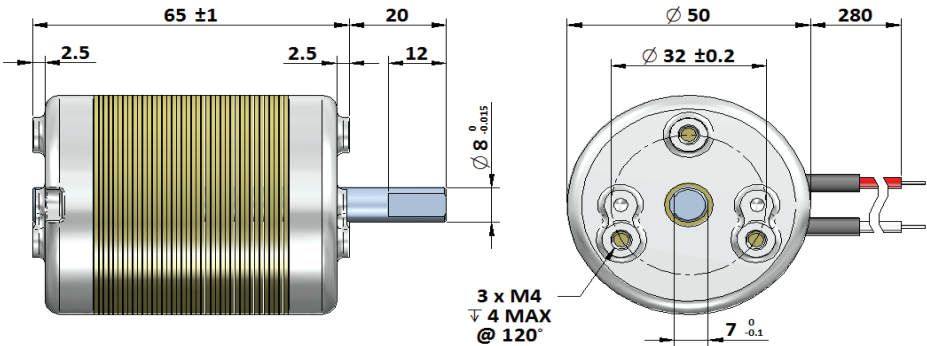




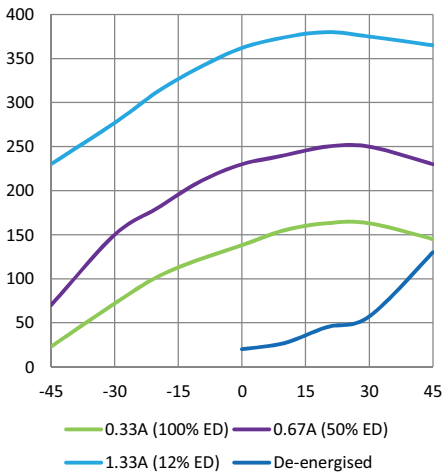
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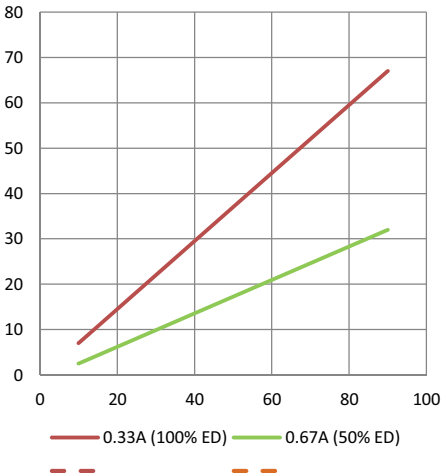
Device drawn with shaft aligned to mid position  
 Nominal  $36\Omega$ ,  $102\text{mH}$  for operation at  $24\text{V}$ ,  $50\%ED$   
 Rotor Inertia  $36\text{gcm}^2$   
 Life Expectancy  $>10\text{M}$  cycles, no load,  $60^\circ$  rotation  
 Mass  $500$  grammes  
 Insulation Resistance  $>100\text{M}\Omega$ ,  $500\text{VDC}$  Megger  
 Dielectric Strength  $1000\text{VAC}$ ,  $50/60\text{Hz}$ ,  $1$  minute  
 Class E ( $120^\circ\text{C}$ ) insulation class



Torque (mNm) vs Angle



Response (ms) vs Angle

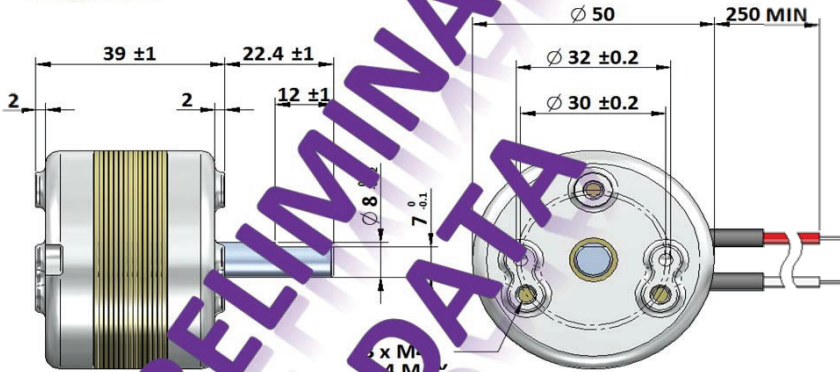




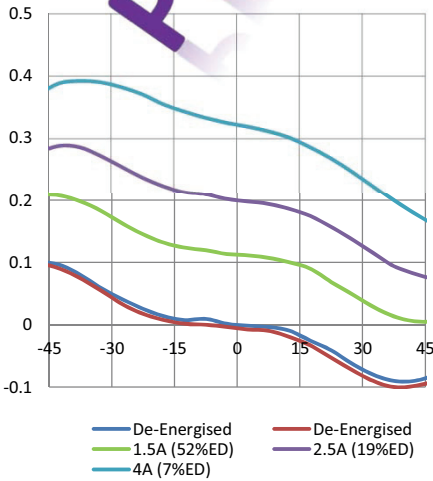
GEEPLUS

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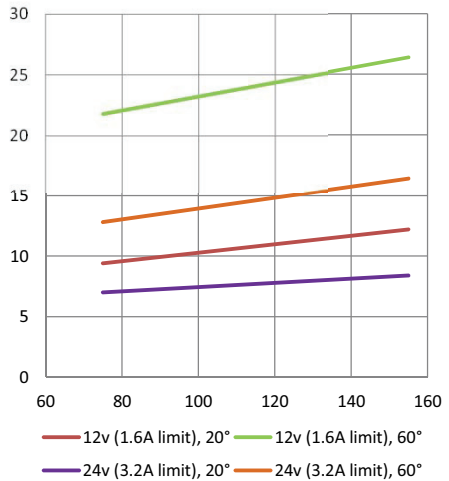
Device drawn with shaft aligned to mid position  
 Nominal 6Ω, 5mH for operation at 24v, 7%ED  
 Rotor Inertia ? gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 30° rotation  
 Turns CW from position shown, +ve applied to Red lead  
 Leadwires AWG24 stranded leads  
 Mass 190 grammes



Torque (Nm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)

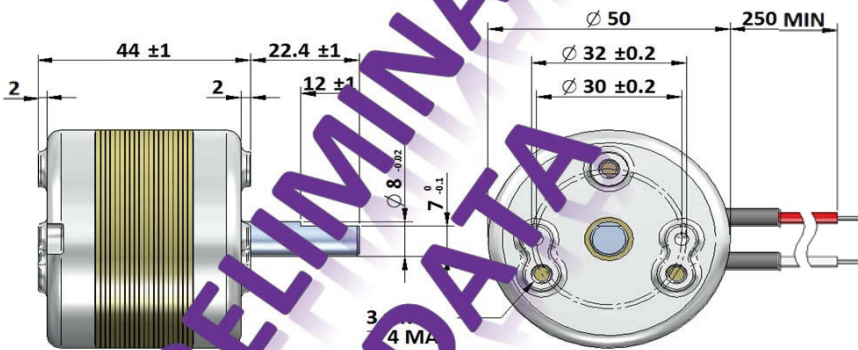




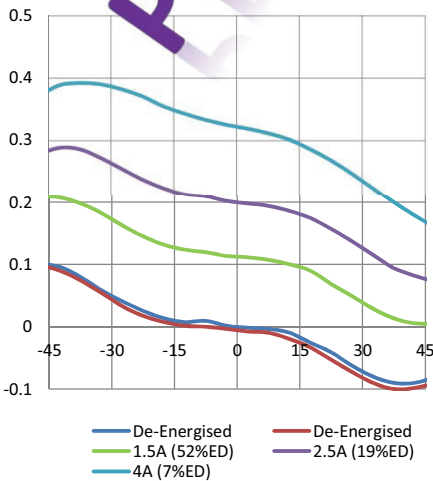
GEEPLUS

BRS50C44-6

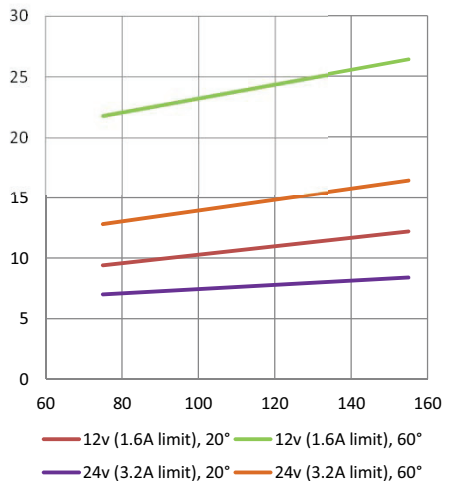
Device drawn with shaft aligned to mid position  
 Nominal 6Ω, 5mH for operation at 24v, 7%ED  
 Rotor Inertia ? gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 30° rotation  
 Turns CW from position shown, +ve applied to Red lead  
 Leadwires AWG24 stranded leads  
 Mass 190 grammes



Torque (Nm) vs Angle



Response (ms) vs Load Inertia (gcm<sup>2</sup>)

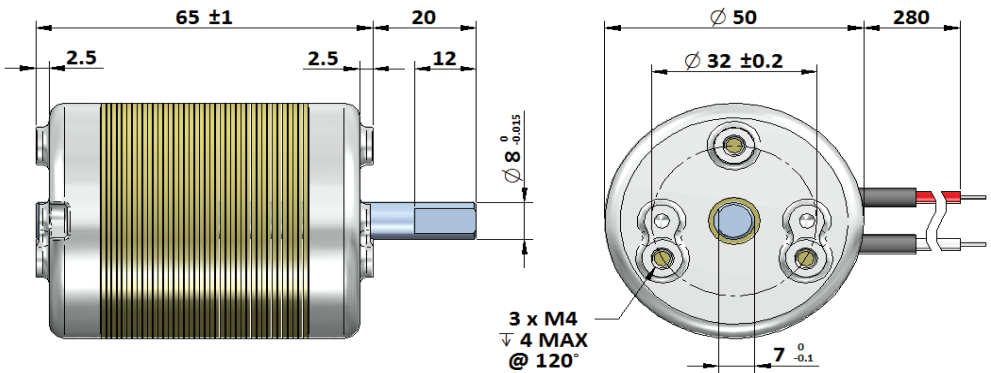




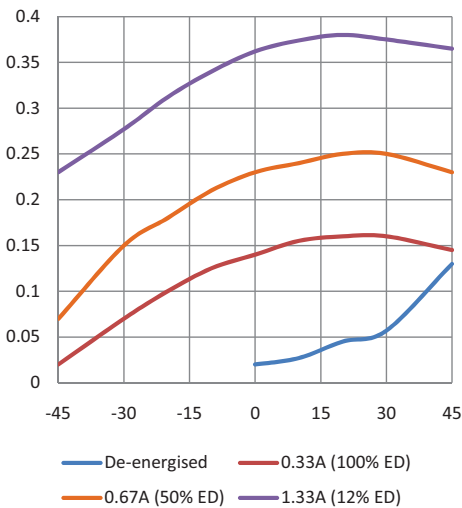
GEEPLUS

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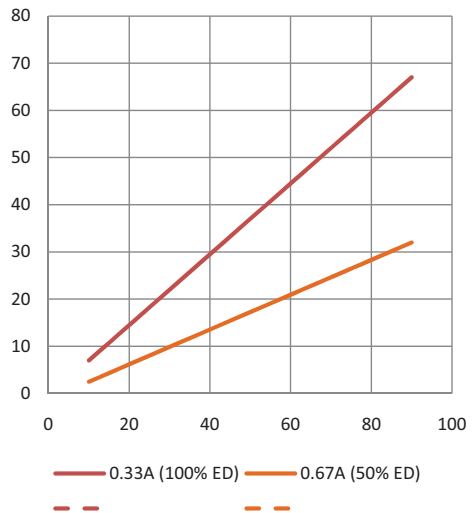
Device drawn with shaft aligned to mid position  
 Nominal  $36\Omega$ , 102mH for operation at 12V, 40%ED  
 Rotor Inertia 36 gcm<sup>2</sup>  
 Life Expectancy >10M cycles, no load, 60° rotation  
 Mass 500 grammes  
 Insulation Resistance >100M $\Omega$ , 500VDC Megger  
 Dielectric Strength 1000vAC, 50/60Hz, 1 minute  
 Class E (120°C) insulation class



Torque (Nm) vs Angle



Response (ms) vs Angle

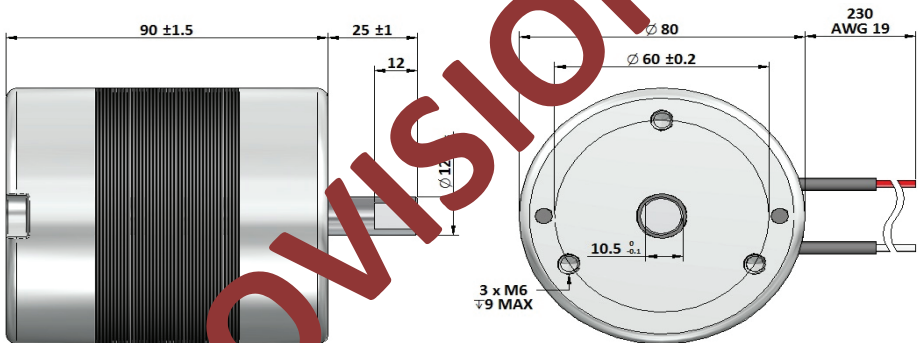




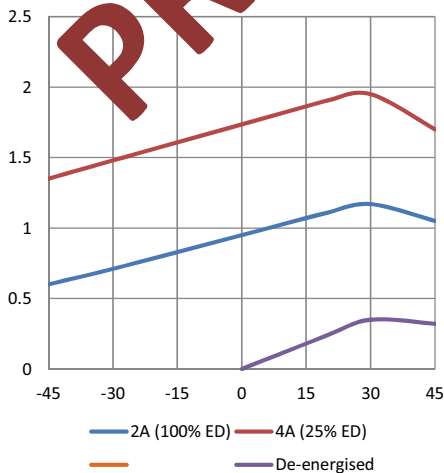
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Device drawn with shaft aligned to mid position  
Nominal 6Ω, 28mH for operation at 24V, 25%ED  
Rotor Inertia 350 gcm<sup>2</sup>  
Life Expectancy >10M cycles, no load, 60° rotation  
Mass 1700 grammes  
Insulation Resistance >100MΩ, 500VDC Megger  
Dielectric Strength 1000vAC, 50/60Hz, 1 minute  
Class E (120°C) insulation class



Torque (Nm) vs Angle



Response (ms) vs Angle

