

## Conventional Brushless Servomotors **Product Detail**

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### **AKM42G (240 V)**

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**Kollmorgen - Advanced high performance brushless servomotor**

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Kollmorgen AKM high performance brushless servomotor series offers a wide range of mounting, connectivity, feedback and other options. These motors offer superb flexibility to meet applications needs with: 7 frame sizes, 25 frame/stack combinations and 78 standard windings.

- **0.16 to 53 N-m (1.4 to 470 lb-in) continuous torque** accommodates a wide range of application requirements.
- **Speeds to 8,000 RPM** meet high speed application requirements.
- **Operation from 53 to 480 VAC (75 to 680 VDC bus rated)** provides full range of global voltage capability.
- **Choice of resolver, commutating encoder, or smart feedback device (SFD)** to meet broad drive and system requirements
- **Compact (high torque/volume ratio)** for maximum torque in minimum space
- **Multiple frame sizes for the same torque value** optimizes mounting and inertia matching capabilities.
- **Optimized windings to match SERVOSTAR drives** for optimum performance and cost
- **CE compliant and UL recognition** for global acceptance



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#### PERFORMANCE DATA

Rated Power watts:	1063
Maximum Speed RPM:	4660
@ Operating Voltage VAC:	240
Continuous Stall Torque N-m (lb-in.):	3.53 (31.2)
Continuous Stall Current A RMS/F :	4.80
@ Ambient Temp. °C:	40
Cont. Stall Torque @ 60°C rise N-m (lb-in.):	2.824 (25)
Continuous Stall Current @ 60°C rise A RMS/F :	3.82
Heat Sink Size mm (in.):	Alu. 254x254x6.4 (10x10x0.25)
Peak Stall Torque N-m (lb-in.):	11.47 (101.5)
Peak Stall Current A RMS/F :	19.2

#### WINDING DATA

Maximum Rated Voltage VAC:	480
Torque Constant N-m/A (lb-in./A):	0.74 (6.5)
Back EMF Constant V RMS/kRPM:	44.7
DC Resistance @ 25° C Ω (line to line):	2.38
Inductance mH (line to line):	9.2

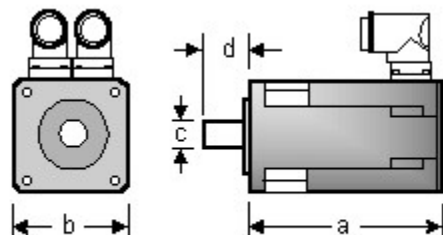
#### MECHANICAL DATA

Rotor Inertia kg-m <sup>2</sup> (lb-in.-s <sup>2</sup> ):	0.000145 (0.001283)
Number of Poles:	10
Thermal Resistance °C/watt:	0.89



<b>Thermal Resistance</b> °C/Watt:	0.07
<b>Thermal Time Constant</b> min:	17
<b>Static Friction (less shaft seal)</b> N-m (lb-in.):	0.026 (0.23)
<b>Viscous Damping</b> N-m/kRPM (lb-in./kRPM):	0.013 (0.115)
<b>Motor Weight</b> kg (lb):	3.39 (7.5)
<b>Standard IP Rating:</b>	IP40

## DIMENSIONS



-AN Mount/Shaft option shown

<b>Motor Diameter</b> mm (in.):	84 (3.31)
<b>Motor Length</b> mm (in.):	147.8 (5.82)
<b>Shaft Diameter</b> mm (in.):	19 (0.75)
<b>Shaft Length</b> mm (in.):	40 (1.57)

## STANDARD OPTIONS

<b>Brake Available:</b>	Yes
<b>Brake Torque</b> N-m (lb-in.):	6 (53.1)
<b>Brake Length Adder</b> mm (in.):	33.5 (1.32)
<b>Brake Inertia</b> kg-m <sup>2</sup> (lb-in.-s <sup>2</sup> ):	0.0000068 (0.00006)
<b>Brake Weight Adder</b> kg (lb):	0.63 (1.4)
<b>Connectors Available:</b>	Yes
<b>Halls Available:</b>	No
<b>Resolver Available:</b>	Yes
<b>Incremental Encoder Available:</b>	Yes
<b>Sine Encoder Available:</b>	No
<b>Shaft Seal Available:</b>	Yes
<b>Shaft Extension Available:</b>	No
<b>Maximum Sealing Available:</b>	IP65
<b>UL:</b>	Yes
<b>CE:</b>	Yes
<b>Industry Standards:</b>	UR, cUR, CE

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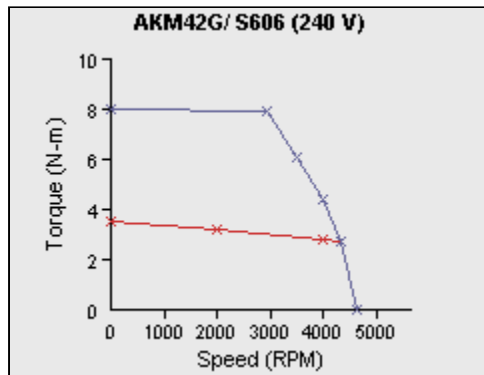
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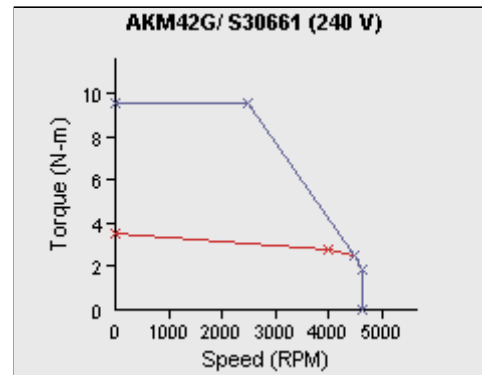
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[Change Axis](#)



■ Continuous Torque Available  
■ Peak Torque Available



■ Continuous Torque Available  
■ Peak Torque Available

