

Flawless Hygiene and a Compact Design – Powerful and Saves You Money.

AKM™ Washdown and Washdown Food Grade Version for the Food and Beverage Industry

The new AKM food-grade synchronous servo motors are available in AKM frame sizes 2 through 6. They are equipped with a highly effective 2-component protective coating and IP67 protection. The use of expensive stainless steel is limited to shaft, screws and fittings. AKM Washdown motors are particularly suitable for use in harsh environments and corrosive installations that need to be cleaned frequently, and for outdoor applications. Washdown Food versions are specifically designed for applications with stringent hygiene regulations where particle build-up and nucleation is to be avoided; and where machines require regular cyclic cleaning such as those that are used in food packaging industry.

Benefits

- Higher purification rating
- No additional cover or special protection required for the motor casing
- Use of expensive high-grade steel required only on the shaft, screws and plug connections
- Increased motor life
- Can replace stainless steel motors in many applications



Specifications

Performance

Equivalent to standard AKM frame sizes 2 to 6, e.g. static torques from 1 Nm to 25 Nm at 75 V to 480 V supply voltage.

Usage Criteria.

Resistant to chemicals, particularly cleaning products, with PH values of between >2 and < 12 as well as protection against corrosion.

Surfaces

The advantageous design of the AKM with rounded corners and smooth surfaces prevents particle build-up and germ formation.

Casing Coating

The AKM Washdown coating material is available with a stainless steel-look, which is resistant to aggressive cleaning agents. The Washdown Food-grade version complies with FDA requirements, including lubricants and materials safe for incidental contact and consumption.

Seal

The two Washdown designs comply with the IP 67 degree of protection. The well-established AKM PTFE shaft seal is used. In the case of the AKM Washdown Food Version, the rotary seal shaft meets the requirements of the FDA.

Scalable and Flexible - Typical AKM!

Specifications

Bearing

In accordance with FDA regulations, AKM Washdown Food version uses only lubricants that are suitable for food.

Shaft

Stainless steel

Supply and Feedback Connectors

Both standard European size 1.0 with smooth surface and special stainless steel finish and straight connectors are available.

Cables

Cables are available with special stainless steel mating plugs as required.

Ambient Temperature

0 °C to 60 °C

Cooling

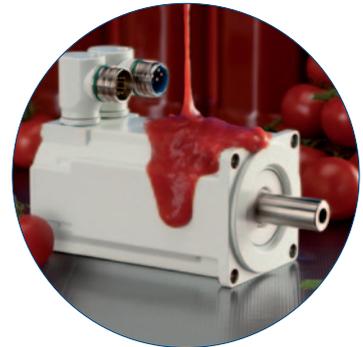
Self cooling

International standards and certifications

Passed the global migration test of the FDA (Food and Drug Administration)
 ECOLAB tested
 UL, CE, RoHS

Performance Data and Options

	AKM Washdown and Washdown Food Servomotors					Servo Drives			
	Stall Torque [Nm]	Peak Torque [Nm]	Feedback Options	Holding Brake	Single-cable Option	AKD Standard	AKD BASIC	AKD PDMM	S700
AKM2	1,42	4,82	Digital Resolver SFD, EnDat, Hiperface®, Hiperface®DSL, BiSS, Resolver	✓	✓	✓	✓	✓	✓
AKM3	2,88	10,22		✓	✓	✓	✓	✓	✓
AKM4	6,00	20,40		✓	✓	✓	✓	✓	✓
AKM5	14,30	38,40		✓	✓	✓	✓	✓	✓
AKM6	24,50	65,20		✓	✓	✓	✓	✓	✓



AKM Washdown Food servomotors also allow contact with food.



Washdown AKM servomotors are well suited for wet and frequently cleaned environments.



AKM Washdown and AKM Washdown Food-grade motors are also available with one cable connection as part of Single-Cable packaged solutions from Kollmorgen.