

## MKD090B-047-KG1-KN

Industrial automation components

<b>Manufacturer</b>	Indramat
<b>Catalog number</b>	mkd090b-047-kg1-kn
<b>Category</b>	Industrial automation components
<b>Product type</b>	Industrial automation components
<b>Status</b>	Active product

### Technical specification

<b>Weight</b>	4.04 kgs
<b>Component Specifications</b>	mkd090b
<b>Product Type</b>	Motor
<b>Motor Size</b>	090
<b>Winding Code</b>	047
<b>Holding Brake Torque</b>	11 Nm
<b>Continuous Torque at Standstill</b>	12.0 Nm
<b>Maximum Torque</b>	43.5 Nm
<b>Position Detection</b>	Absolute (>4096 revs)
<b>Protection Rating</b>	IP65
<b>Ambient Temperature Range</b>	0 to 40°C

## Description

The Indramat MKD090B-047-KG1-KN is a high-performance synchronous servo motor designed for precision motion control in industrial automation applications. Part of the MKD series, this motor features a plain shaft design with a shaft sealing ring, ensuring durability and reliability in demanding environments. It is equipped with a holding brake providing 11 Nm of torque, facilitating secure positioning during operation. The motor delivers a continuous standstill torque of 12.0 Nm and achieves a theoretical maximum torque of 43.5 Nm, making it suitable for applications requiring consistent and robust performance. The integrated resolver feedback system with an absolute encoder allows for precise position detection over more than 4096 revolutions, enhancing control accuracy. With a centering diameter of 110 mm and a flange size of 140 mm, the MKD090B-047-KG1-KN is designed for easy integration into various automation systems. Its IP65 protection rating ensures resistance to dust and water ingress, making it ideal for use in harsh industrial settings. This motor operates efficiently within an ambient temperature range of 0 to 40°C, supporting natural convection cooling. The MKD090B-047-KG1-KN is well-suited for applications in sectors such as packaging, material handling, and robotics, where precise motion control and reliability are paramount.