

DKR03.1-W100N

Industrial automation components

Manufacturer	Indramat
Catalog number	dkr031-w100n
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Indramat
Part Number	DKR03.1-W100N
Product Type	Drive Controller
Rated Current	100 Amps A
Input Voltage	3xAC 400 to 480 V
Internal DC Bus Voltage	300 V
Cooling Method	Air (built-in blower)
Feedback Type	Digital servo and resolver
Communication Interface	SERCOS
Ambient Temperature Range	+5°C to +55°C
Weight	49 kg

Description

The Indramat DKR03.1-W100N is a high-performance drive controller engineered for precision motion control in industrial automation applications. Designed by Indramat, a leader in motion control technology, this controller offers robust features to meet demanding operational requirements. It delivers a rated current of 100 Amps, ensuring reliable power handling for various industrial machinery. The controller operates within a three-phase AC input voltage range of 400 to 480 V, accommodating standard industrial power systems. Its internal DC bus voltage is 300 V, providing stable and efficient power conversion. Cooling is managed through a built-in blower, facilitating optimal thermal management during operation. The DKR03.1-W100N supports both digital servo and resolver feedback, enabling precise motor control and positioning. Communication with the controller is facilitated via the SERCOS interface, ensuring high-speed data exchange and synchronization. The unit is designed without a brake chopper or bleeder, utilizing a rigid DC bus configuration for enhanced system stability. It operates within an ambient temperature range of +5°C to +55°C, suitable for diverse industrial environments. The controller weighs 49 kg, with an accessory kit adding 1.7 kg, making it a substantial component in motion control systems. This drive controller is ideal for applications requiring precise motion control, such as CNC machines, robotics, and automated manufacturing systems, where reliability and performance are paramount.