

DKR02.1-W300B

Industrial automation components

Manufacturer	Indramat
Catalog number	dkr021-w300b
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Indramat
Part Number	DKR02.1-W300B
Nominal Current	300A
Power Supply	3-phase 400–480 V AC (±10%)
System Frequency	50–60 Hz
Cooling Method	Air (built-in blower)
Command Interface	SERCOS
Motor Feedback	Digital servo and resolver
Bleeder Configuration	With bleeder
Enclosure Rating	IP20
Weight	104 kg

Description

The Indramat DKR02.1-W300B is a robust drive controller engineered for precise control in industrial automation applications. Designed to handle a nominal current of approximately 300A, it is suitable for driving linear, main spindle, and frameless spindle motors, as well as linear motors. The controller operates with a three-phase power supply of 400–480 V AC ($\pm 10\%$) and a system frequency of 50–60 Hz, ensuring compatibility with standard industrial power systems. Cooling is managed via an integrated air blower, maintaining optimal operating temperatures during continuous duty cycles. The SERCOS interface facilitates high-speed, deterministic communication between the controller and motion units, enabling synchronized control across multiple axes. Motor feedback is provided through digital servo and resolver feedback mechanisms, ensuring precise position and speed control. The controller features a built-in bleeder resistor, which safely dissipates excess regenerative energy during braking or deceleration, protecting both the controller and connected motors from electrical stress. With an approximate weight of 104 kg, the DKR02.1-W300B is housed in an IP20-rated enclosure, intended for installation inside a control cabinet, offering protection against dust and moisture. This drive controller is ideal for applications requiring high torque and precise motion control, such as CNC machine tools, packaging lines, and robotic automation systems.