

DKC14.3-100-7-FW

Industrial automation components

Manufacturer	Indramat
Catalog number	dkc143-100-7-fw
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

DC Bus Nominal Voltage	700 V
Rated Current	100 A
Design Version	3
Connectivity	15-pole D sub connector
Operating Temperature Range	0 to +40 °C
Pollution Degree Rating	2
Installation Altitude	1000 m

Description

The Indramat DKC14.3-100-7-FW is a high-performance drive controller from the DKC Drive Controllers series, designed for precise motion control and power management in industrial automation systems. Operating with a DC-bus nominal voltage of 700 V and a rated current of 100 A, this controller is engineered to drive high-performance motors, ensuring smooth acceleration, deceleration, and torque control across various applications. Its robust design version 3 within the Series 14 family incorporates advanced over-voltage protection to safeguard connected components against electrical spikes. Connectivity is facilitated via a 15-pole D sub connector, enabling reliable communication with higher-level controllers and feedback devices. The modular architecture allows for easy integration into existing Indramat systems, while the exclusion of on-board firmware offers flexibility in selecting tailored control software. Designed for reliable operation in standard industrial environments, it supports an optimal operating temperature range of 0 to +40 degrees Celsius and a pollution degree rating of 2 to withstand airborne contaminants. The controller is suitable for installation at altitudes up to 1000 meters above sea level without derating, making it adaptable to various geographical locations. Over-voltage protection is built-in to mitigate transient events, enhancing system longevity and reducing downtime. In summary, the DKC14.3-100-7-FW drive controller provides enhanced reliability, precise motor control, and robust protection, making it a valuable component for industrial automation applications.