DDS21-W100-DS13-00

Industrial automation components

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Manufacturer	Indramat
Catalog number	dds21-w100-ds13-00
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Product Type	Digital AC Servo Drive Controller
Rated Current	100 A
DC Bus Voltage	300 V (±15%)
Cooling Type	Internal Cooling
Communication Interface	SERCOS interface via fiber optics cable
Motor Feedback	Digital servo feedback
Ingress Protection Rating	IP 10
Operating Temperature Range	0°C to 40°C
Maximum Installation Height	1000 m

Description

The Indramat DDS2.1-W100-DS13-00 is a high-performance digital AC servo drive controller engineered for precise and reliable motor control in industrial automation systems. Designed for integration with MDD and MKD synchronous motors, as well as LAR and LAF linear inductance motors, this controller ensures rapid-response drive capabilities essential for demanding applications. Operating with a DC bus voltage of 300 V (±15%), it delivers a rated current of 100 A, accommodating both peak and continuous current requirements. The DDS2.1-W100-DS13-00 employs internal cooling technology, maintaining thermal stability within control cabinets. It features a SERCOS interface for real-time serial communication via fiber optic cables at data rates of 2 or 4 Mbps, facilitating seamless integration into automation systems. The controller supports digital servo feedback, enabling precise motor control and positioning. With an IP 10 ingress protection rating, it safeguards against the ingress of solid objects larger than 50 mm, ensuring durability in industrial environments. The

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device operates effectively within ambient temperatures ranging from 0°C to 40°C and can be installed at elevations up to 1000 meters above sea level. Its modular design allows for straightforward cabinet mounting and integration, streamlining system design and installation processes. This controller is ideal for applications in packaging machinery, robotics, handling machines, and other industrial automation systems requiring high-current motion control under variable environmental conditions.