

RAC3.1-100-460-A00-W1-220

Industrial automation components

Manufacturer	Indramat
Catalog number	rac31-100-460-a00-w1-220
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	14.51 kgs
Voltage	400 - 460 V
Product Type	Drive
Signal Type	460
Relay Specifications	460 VAC
Current	100 A
Signal Level	460 V

Description

The Indramat RAC3.1-100-460-A00-W1-220 is a high-performance AC main spindle drive controller designed for precision control in industrial automation applications. Manufactured by Indramat, a renowned brand in motion control technology, this controller offers robust features to meet demanding operational requirements. Operating on a three-phase AC supply voltage of 400–460 V at 50 Hz ($\pm 15\%$), it delivers a continuous controller current of 100 A, ensuring reliable and consistent performance. The controller provides a continuous output of 26 kW, with a peak output of 40 kW, accommodating high-torque demands in various machining processes. Regeneration capabilities are also notable, with a continuous regeneration output of 18 kW and a peak of 26 kW, enhancing energy efficiency during deceleration phases. Cooling is managed via an internal blower with a built-in fan, maintaining optimal operating temperatures. The device operates within an ambient temperature range of $+5^{\circ}\text{C}$ to $+45^{\circ}\text{C}$ and can withstand storage temperatures from -30°C to $+85^{\circ}\text{C}$, ensuring durability in diverse environments. The controller features an analogue speed command input of ± 10 V on a 9-pole X4 terminal, facilitating precise speed control integration. Weighing 49 kg, it is designed for installation in control cabinets, optimizing space utilization. This controller is ideal for main spindle duties in milling, turning, and grinding centers, offering manufacturers a dependable solution for high-precision applications.