

## TDA1.1-050-3-A00

Industrial automation components

<b>Manufacturer</b>	Indramat
<b>Catalog number</b>	tda11-050-3-a00
<b>Category</b>	Industrial automation components
<b>Product type</b>	Industrial automation components
<b>Status</b>	Active product

### Technical specification

<b>Fire Rating</b>	a00
<b>Product Type</b>	Drive
<b>Rated Current</b>	50 A
<b>Continuous Effective Current</b>	35 A
<b>DC-Link Voltage</b>	300 VDC
<b>Position Control Resolution</b>	1/4,000,000 revolutions
<b>Weight</b>	10.5 kg
<b>Operating Temperature Range</b>	+5 to +45 °C
<b>Protection Rating</b>	IP10

### Description

The Indramat TDA1.1-050-3-A00 is a main spindle controller engineered for precise digital control of asynchronous main spindle motors and 1MB frameless spindle motors. Designed by Bosch Rexroth Indramat, this controller operates with a DC-link voltage of 300 VDC, delivering a rated current of 50 A and a continuous effective current of 35 A. It features an analog command value interface, allowing for seamless integration with existing CNC systems. The controller includes an integrated position control circuit capable of spindle positioning with a resolution of up to 1/4,000,000 revolutions, ensuring high precision in machining applications. With a weight of 10.5 kg, it is suitable for installation in control cabinets or closed housing units. The TDA1.1-050-3-A00 operates within an ambient temperature range of +5 to +45 °C and has an IP10 protection rating, making it suitable for various industrial environments. Its compact design and robust construction make it an ideal choice for high-performance machining centers and automated manufacturing lines.