

SM 5/10-TA

Industrial automation components

Manufacturer	Bosch Rexroth
Catalog number	sm-510-ta
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	4.21 kgs
Rated Current	5 A
Peak Current	10 A
DC Link Voltage Range	460 to 700 V
Rated Voltage	460 V
Power Supply	20 W
Ventilation Type	Forced ventilation via axial blower fan
Heat Dissipation System	Built-in heat dissipation system
Error Detection Mechanisms	Automated error detection for motor errors
Ambient Operating Temperature Limit	55°C

Description

The Bosch Rexroth SM 5/10-TA is a high-performance servo drive designed for precise control of servo motors in industrial automation applications. Operating within the SM AC Inverters series, this module delivers a rated current of 5 A and a peak current of 10 A, ensuring reliable performance in demanding environments. It operates at a DC link voltage range of 460 to 700 V, with a rated voltage of 460 V, and requires a 20 W power supply. The inverter features forced ventilation via an axial blower fan and a built-in heat dissipation system, effectively managing thermal conditions to maintain optimal performance. Additionally, it includes automated error detection mechanisms that monitor motor errors and limit the ambient operating temperature to 55°C, enhancing system reliability and longevity. The SM 5/10-TA is suitable for applications requiring precise speed and position control, such as robotics, CNC machinery, and automated assembly lines, where high torque and dynamic response are essential.