

SM17/35-TA

Industrial automation components

Manufacturer	Bosch Rexroth
Catalog number	sm1735-ta
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Rated Current	17 A
Peak Current	35 A
Voltage Range	460–700 V
Weight	11 kg
Power Loss	150 W
Maximum Operating Height	1000 m
Humidity Compliance	Class F and DIN 40040 standards

Description

The Bosch Rexroth SM 17/35-TA is a high-performance servo inverter module designed for precise control of brushless servo motors. With a rated current of 17 A and a peak current capability of 35 A, it operates within a voltage range of 460 V to 700 V, making it suitable for demanding industrial applications. The module features rotor position recognition and an integrated brushless tachometer, ensuring accurate motor feedback and enhanced system performance. An optimization card is included to fine-tune motor speed control, further improving efficiency. Safety is paramount with the SM 17/35-TA, which includes comprehensive failure detection mechanisms and commutation monitoring. In the event of a motor jam, the module reduces current supply by 50% within two seconds, protecting both the motor and the drive system. Thermal monitoring is also incorporated, with fault signals generated for abnormal rotor positions and alarming temperatures. Designed for reliability, the SM 17/35-TA operates up to a maximum altitude of 1000 meters above sea level and adheres to humidity limits in accordance with Class F insulation and DIN 40040 standards. This makes it a robust choice for various industrial environments, including packaging, printing, and CNC machining. Its modular design allows for seamless integration into automated production and motion control systems, ensuring high uptime and dependable long-term operation.