

3HNP04378-1

Industrial automation components

Manufacturer	Abb
Catalog number	3hnp04378-1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	2.27 kgs kg
Rated Power	2.2 kW
Rated Speed	4000 RPM
Max Torque	3.7 Nm
Operating Voltage	230 V AC
Enclosure Type	IP65 rating

Description

The ABB 3HNP04378-1 is a high-performance AC servo motor engineered for precision control in industrial automation applications. Designed to deliver consistent speed, position accuracy, and torque, it excels in demanding environments such as robotics, CNC machinery, and automated manufacturing systems. This motor features a compact design with a 22mm frame size, optimizing space utilization without compromising on power or precision. It operates efficiently within a temperature range of -20°C to +60°C, making it suitable for diverse industrial environments. The motor is equipped with advanced brushless technology, ensuring smooth operation, minimal maintenance, and extended lifespan. It operates at a rated voltage of 230 V AC and offers a speed range from 1000 to 5000 rpm, with a maximum torque of 3.7 Nm. The 3HNP04378-1 is also equipped with an integrated 20-bit incremental encoder for precise position feedback, enhancing control accuracy. With an IP65-rated enclosure, it is designed to withstand harsh industrial environments, including dust and water splashes, ensuring reliable operation in various conditions. The motor's efficiency and durability are backed by certifications such as CE, UL, and IECEx, guaranteeing compliance with international safety standards. Its robust construction and durable materials ensure a long service life and minimal downtime, making it a reliable choice for industrial automation tasks requiring high precision and efficiency.