1FT7084-1AF74-1NH1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft7084-1af74-1nh1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT7084-1AF74-1NH1
Product Type	Synchronous Motor
Rated Torque	20 Nm
Rated Speed	3000 rpm
Moc znamionowa	4.56 kW
Cooling Type	Natural Cooling
Stopień ochrony	IP65
Frame Size	IMB 5
Flange Type	Conventional Flange
Temperature Sensor	Pt1000
Encoder Type	Incremental Encoder

Description

The Siemens 1FT7084-1AF74-1NH1 is a high-performance synchronous motor from the SIMOTICS S-1FT7 series, designed for demanding industrial applications requiring precision and reliability. This motor features a rated torque of 20 Nm at 100 K, a rated speed of 3,000 rpm, and a rated power output of 4.56 kW, ensuring efficient operation in various settings.

It operates with natural cooling, eliminating the need for additional cooling systems. The motor is equipped with a rotatable power connector, allowing for flexible installation, and a vibration

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severity grade of A, indicating minimal operational vibrations.

With an IP65 degree of protection, it is well-suited for environments where dust and water resistance are essential. The frame size IMB 5 (IM V1, IM V3) and conventional flange design make it compatible with 1FT6 and 1FK7 series motors, facilitating easy integration into existing systems.

Additionally, the motor includes a Pt1000 temperature sensor for precise thermal monitoring, an incremental encoder with a 1 VSS 2048 S/R resolution for accurate position feedback, and a rotatable plain shaft with a holding brake for enhanced safety and performance.

These features collectively make the Siemens 1FT7084-1AF74-1NH1 an ideal choice for applications demanding high torque, speed stability, and durability.