AUTOMATION TRADER

1FT6044-4AK71-3EA1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6044-4ak71-3ea1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6044-4AK71-3EA1
Product Type	Synchronous Servomotor
Rated Torque	5.0 Nm
Rated Speed	6000 rpm
Cooling Method	Natural Air Cooling
Mounting Flange	IM B5 (IM V1, IM V3)
Connector Outlet Direction	Axial Non-Drive End
Encoder Type	Absolute Encoder (EnDat 2048 S/R)
Derating Due to Encoder	10%
Shaft Design	Feather Key with Circular Runout Tolerance N
Sealing Ring	Gamma Sealing Ring (IP65)

Description

The Siemens 1FT6044-4AK71-3EA1 is a SIMOTICS S synchronous servomotor from the 1FT6 series, designed for high-performance applications requiring precise motion control. This motor delivers a rated torque of 5.0 Nm and operates at a rated speed of 6000 rpm, making it suitable for demanding industrial tasks.

It features natural air cooling, ensuring efficient thermal management during operation. The motor is constructed with an IM B5 (IM V1, IM V3) mounting flange, facilitating easy integration into various

systems.

For power and signal connectivity, it utilizes an axial non-drive end connector outlet direction, streamlining wiring and installation processes. Equipped with an absolute encoder (EnDat 2048 S/R), the motor provides precise position feedback, with a 10% derating due to the encoder's characteristics.

The shaft is designed with a feather key and a circular runout tolerance of N, ensuring mechanical stability and performance. Notably, this model does not include a holding brake, which may be advantageous in applications where braking is not required.

The motor's vibration severity grade is N, indicating standard vibration levels suitable for general industrial environments. Additionally, it features a gamma sealing ring with an IP65 rating, offering protection against dust and water ingress, thereby enhancing its durability in various operating conditions.