1FT6086-1AH71-1AH1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6086-1ah71-1ah1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Standstill Torque	27 Nm
Rated Speed	3000 rpm
Cooling Type	Natural Air Cooling
Protection Class	IP65
Mounting Type	IM B5
Encoder Type	Incremental Encoder
Encoder Resolution	2048 pulses/rev

Description

The Siemens 1FT6086-1AH71-1AH1 is a SIMOTICS S synchronous servomotor from the 1FT6 series, designed for high-performance applications requiring precise motion control. This motor delivers a standstill torque of 27 Nm and operates at a rated speed of 3000 rpm, making it suitable for tasks demanding consistent and reliable performance.

It features natural air cooling, ensuring efficient thermal management during operation. The motor is housed in an IP65-rated enclosure, providing robust protection against dust and water ingress, which is essential for maintaining optimal performance in industrial environments.

The IM B5 mounting configuration allows for versatile installation options, accommodating various system designs. Equipped with an incremental encoder with sin/cos 1 Vss 2048 S/R (encoder I-2048), it offers precise feedback for accurate position and speed control.

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The power and signal connectors are oriented transversely to the right, facilitating streamlined wiring and integration into existing systems. Notably, this model does not include a holding brake, which may be advantageous in applications where braking is not required.

The 1FT6086-1AH71-1AH1 is ideal for integration into automation systems where space constraints and the need for reliable, high-torque performance are critical.

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