1FT6084-8AF71-3EB1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6084-8af71-3eb1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Continuous Torque	20 Nm
Maximum Speed	3000 rpm
Encoder Type	Incremental Encoder
Encoder Resolution	2048 pulses per revolution
Mounting Type	IM B5 (IM V1, IM V3)

Description

The Siemens 1FT6084-8AF71-3EB1 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precision motion control applications. This model delivers a continuous torque of 20 Nm at 100 K, with a maximum speed of 3000 rpm, and operates with natural air cooling.

It features an incremental encoder with sin/cos 1 Vpp 2048 pulses per revolution (encoder I-2048), ensuring accurate position feedback. The motor is configured with a smooth shaft and a circular runout tolerance of N, and it includes a holding brake for enhanced safety.

Its vibration severity grade is N, and it is equipped with a gamma sealing ring (IP65) for protection against dust and water ingress. The motor is mounted in an IM B5 (IM V1, IM V3) configuration, suitable for various industrial applications requiring reliable and precise motion control.

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