

Beckhoff — AM Synchronous Servo Motors

AM8062-0L21-0000 **In-Stock, Ships Today**

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The **AM8062-0L21-0000** is a synchronous servo motor built by Beckhoff for the AM Synchronous Servo Motors series. This standard version uses a smooth shaft and a 142 mm mounting flange for connection to geared stages or belt drives. Integrated OCT multi-turn feedback delivers absolute position data to Beckhoff drives, while a factory-installed 24 V holding brake secures the load when power is removed. In automated machinery, the motor executes rapid, repeatable rotary motion under closed-loop control.

During continuous operation, the motor supplies **4.78 kW** of mechanical output at its base speed of **3000 rpm**. At that operating point, it develops a rated torque of **15.2 Nm**, which suits medium-sized axes such as indexing tables or packaging formers. The standstill current is limited to **12.4 A**, which supports appropriate drive and cable selection. The electromagnetic design provides a torque constant of **1.70 Nm/A**, so a compatible drive requires approximately 9 A to produce the nominal torque while retaining current capacity for dynamic peaks. A rotatable angular connector or terminal box can be selected, allowing the power, brake, and feedback leads to exit in the preferred direction for the cabinet layout.

For brief acceleration events, the magnetic stack can produce a peak torque of **74.2 Nm**, supporting fast cycle starts without requiring a larger motor frame. At zero speed, the energized motor can sustain a standstill torque of **21.1 Nm** before reaching its thermal limit, while the holding brake secures the axis after motor power is removed. The assembled rotor and brake have a combined inertia of **22.30 kg cm²**, balancing responsive acceleration with mechanical damping. The motor has a total mass of **15.40 kg**, reducing the load placed on mounting supports

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during installation. Depending on the selected stack length, the integrated brake can provide holding torque from 20 Nm to 36 Nm for a parked axis.

Specifications

Brake Voltage:	24 VDC	Connection:	Rotatable angular connector or terminal box	Feedback Type:	OCT multi-turn
Flange Size:	142 mm	Free Shaft End:	58 mm	Holding Brake:	24 V holding brake
Holding Torque:	20 Nm to 36 Nm (dependent on length)	Motor Series Type:	Standard	Overall Length Code:	2
Peak Torque:	74.2 Nm	Product Series:	Synchronous Servomotors	Rated Power:	4.78 kW
Rated Speed:	3000 rpm	Rated Torque:	15.2 Nm	Rotor Inertia With Brake:	22.30 kgcm ²
Shaft Design:	Smooth shaft	Shaft Diameter:	32 k6	Standstill Current:	12.4 A
Standstill Torque:	21.1 Nm	Torque Constant:	1.70 Nm/A	Version:	Standard
Weight With Brake:	15.40 kg	Winding Code:	L	Last Verified:	10/23/2026 4:50 PM

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