

SS-EC Drives and Motors

StepSERVO Drives and Motors for use in EtherCAT Networks

EtherCAT®



Product Features

- EtherCAT® network control using CANopen over EtherCAT (CoE) adhering to CiA 402
- StepSERVO closed loop stepper technology featuring space vector current control
- Peak torques for greater acceleration and throughput
- Higher efficiency, lower power consumption than open loop step motors
- Motor frame sizes NEMA 11, 17, 23, 24 and 34
- Dual-port Ethernet for greater network topology support, including line and ring networks
- Keep-alive function with auxiliary power supply
- Stored program execution for increased motion control functionality
- 8 digital inputs, 4 digital outputs, optically isolated
- 2 analog inputs, software configurable
- Mini USB port for software configuration



Series Details:

Why EtherCAT®?

EtherCAT® is an Ethernet-based fieldbus system suitable for real-time communications requirements in automation technology. It provides short data update times and low communication jitter over a full-duplex Ethernet physical layer. All of this is to say that it's a high performance industrial Ethernet network for automation.

Benefits of StepSERVO

StepSERVO technology is available on a range of drives, motors, and integrated motors from Applied Motion Products. The technology is based on the closed loop servo control of high torque step motors. The result is a motor and drive system that provides greater torque, acceleration, and throughput than traditional step motor systems. It also runs cooler, quieter, and smoother than conventional steppers.

To learn more about StepSERVO technology [download the white paper](#).

The Product Line

There are three StepSERVO Drives and fourteen StepSERVO Motors in this series. Motor frame sizes include NEMA 11, 17, 23, 24 and 34. Products in this series are identified by an "SS" in the part number, such as the [SS05-EC-D](#) drive and the [HT23-SS2DGB](#) motor. A full complement of mating cables, power supplies, and other accessory products is available.

SS-EC drives support CANopen over EtherCAT (CoE) control to allow them to be integrated into new and existing EtherCAT networks. Supported CiA 402 operating modes include Profile Position, Profile Velocity, Profile Torque, Cyclic Synchronous Position, and Cyclic Synchronous Velocity.

EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Products in the Series *SS-EC Drives and Motors*

Title	Type	Description	1pc.
HT11-SS1DMA	StepSERVO Motor	NEMA 11 StepSERVO Motor	\$113.00
HT11-SS2DMA	StepSERVO Motor	NEMA 11 StepSERVO Motor	\$122.00
HT11-SS3DMA	StepSERVO Motor	NEMA 11 StepSERVO Motor	\$127.00
HT17-SS1DGB	StepSERVO Motor	NEMA 17 StepSERVO Motor	\$229.00
HT17-SS2DGB	StepSERVO Motor	NEMA 17 StepSERVO Motor	\$234.00
HT17-SS3DGB	StepSERVO Motor	NEMA 17 StepSERVO Motor	\$239.00
HT17-SS4DGB	StepSERVO Motor	NEMA 17 StepSERVO Motor	\$244.00
HT23-SS2DGB	StepSERVO Motor	NEMA 23 StepSERVO Motor	\$261.00
HT23-SS3DGB	StepSERVO Motor	NEMA 23 StepSERVO Motor	\$266.00
HT23-SS4DGA	StepSERVO Motor	NEMA 23 StepSERVO Motor	\$331.00
HT24-SS3DGB	StepSERVO Motor	NEMA 24 StepSERVO Motor	\$306.00
HT34-SS1DGA	StepSERVO Motor	NEMA 34 StepSERVO Motor	\$307.00
HT34-SS3DGA	StepSERVO Motor	NEMA 34 StepSERVO Motor	\$372.00
HT34-SS5DGA	StepSERVO Motor	NEMA 34 StepSERVO Motor	\$427.00
SS03-EC-D	StepSERVO Drive	StepSERVO Drive with EtherCAT, 3 A	\$397.00
SS05-EC-D	StepSERVO Drive	StepSERVO Drive with EtherCAT, 5 A	\$397.00
SS10-EC-D	StepSERVO Drive	StepSERVO Drive with EtherCAT, 10 A	\$397.00