

SSM23IP-4EG

NEMA 23 Integrated StepSERVO™ Motor w/ EtherNet/IP



Product Features

- StepSERVO™ technology featuring space vector current control
- NEMA 23 frame size with enhanced torque design
- EtherNet/IP support for easy PLC and HMI communication
- Q programming control mode for stand-alone operation
- “Boost” torque of 25-50% higher than holding torque
- RJ45 Ethernet port for programming and communications
- Built-in 20,000 count/rev encoder for closed-loop control

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Description

Specifications

Torque Curves

Software

Downloads

The SSM23IP-4EG integrated StepSERVO™ is a drive+motor unit, fusing a NEMA 23 step motor and a servo drive into a single device. Power to the drive, located at the rear of the motor, must be supplied by an external DC supply. See Related and Recommended Products below for compatible 24 and 48 volt DC [power supplies](#) .

StepSERVO technology combines the high torque capabilities of a step motor with the closed loop dynamic control of a servo system. The result is a highly customizable all-in-one motion control solution that operates quietly and efficiently, requiring only the minimum amount of current to maintain commanded position and velocity. Boost torque of 25-50% higher than rated holding torque increases the limits of acceleration, leading to faster cycle times. StepSERVO integrated motors can be applied in systems where a traditional stepper motor would not be capable of achieving the high accuracy required.

The SSM23IP-4EG integrated StepSERVO incorporates EtherNet/IP network communications, the widely used industrial protocol for manufacturing automation applications. With EtherNet/IP users can control, configure and query the drive using an open, standards-based, industrial Ethernet connection at speeds up to 100 Mbits/sec. All drive+motor features can be accessed over EtherNet/IP, including more than 100 commands and 130 registers for controlling motion, I/O, configuration, polling, math, register manipulation, and Q programming. This integrated StepSERVO can be operated in several different control modes, including Streaming Command mode using either SCL, Pulse & Direction mode, and Velocity mode, plus it has the ability to run a Q program stored in non-volatile memory. Q programs are created using Applied Motion’s Q Programmer™ software, which provides powerful commands for motion, I/O, conditional processing, multi-tasking, math functions, and more. All SSM23 units are setup, configured and tuned using Applied Motion’s [Step-Servo Quick Tuner](#) software with built in Q Programmer.

Each SSM23IP integrated StepSERVO comes with 3 digital inputs, 1 digital output, and 1 analog input. The digital inputs accept signals of 5-24 VDC and can be used for connecting pulse & direction signals, end-of-travel limit switches, jog switches, quadrature encoder signals, PLC outputs, sensors, or many other signal types. The digital output can be connected to PLC inputs, counters, lights, relays, or other devices. The analog input accepts 0-5 VDC signals and can be used for velocity and position control.

The SSM23IP-4EG comes with a fast 10/100 MBit Ethernet port for programming and EtherNet/IP communications. The same port also supports TCP and UDP protocols for sending commands from Applied Motion's proprietary serial command language (SCL).

All SSM23IP models are RoHS compliant.

What's in the Box?

- SSM23IP-4EG integrated motor
- Mating power connector (2-pin)
- Mating I/O connector (11-pin)
- Screwdriver
- Quick Setup Guide (also available in Downloads)

NOT included:

- DC power supply (required), see Power Supplies below
- Regen clamp (optional), see Accessories below
- Additional accessories available below

Archived:

Not Archived

Series:

- [EtherNet/IP Products](#)
- [Modbus TCP Products](#)
- [StepSERVO Integrated Motors](#)



Products in the Series *StepSERVO Integrated Motors*

Part Number	Frame Size	Supply Voltage	Control Modes	Holding Torque	Communication Ports	Encoder Feedback	1pc.
SSM23IP-2EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	142	Ethernet, EtherNet/IP	Yes	\$575.00
SSM23IP-3EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	212	Ethernet, EtherNet/IP	Yes	\$585.00
SSM23IP-4EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	340	Ethernet, EtherNet/IP	Yes	\$595.00
SSM23Q-2EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	142	Ethernet	Yes	\$524.00
SSM23Q-3EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	212	Ethernet	Yes	\$534.00
SSM23Q-4EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	340	Ethernet	Yes	\$545.00
TSM11Q-1RM	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	9.2	RS-485	Yes	\$257.00
TSM11Q-1RM-H01	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	9.2	RS-485	Yes	\$271.00
TSM11Q-2RM	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	11.3	RS-485	Yes	\$264.00
TSM11Q-2RM-H01	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	11.3	RS-485	Yes	\$278.00
TSM11Q-3RM	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	17.7	RS-485	Yes	\$271.00
TSM11Q-3RM-H01	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	17.7	RS-485	Yes	\$285.00
TSM17C-1CG	NEMA 17	12-48 VDC	CANopen	40	CANopen	Yes	\$547.00
TSM17C-2CG	NEMA 17	12-48 VDC	CANopen	59	CANopen	Yes	\$551.00
TSM17C-3CG	NEMA 17	12-48 VDC	CANopen	73	CANopen	Yes	\$554.00
TSM17P-1AG	NEMA 17	12-48 VDC	Step & Direction	40	RS-232	Yes	\$378.00
TSM17P-2AG	NEMA 17	12-48 VDC	Step & Direction	59	RS-232	Yes	\$380.00
TSM17P-3AG	NEMA 17	12-48 VDC	Step & Direction	73	RS-232	Yes	\$383.00
			Analog Torque / Velocity, Streaming Commands, Analog				

TSM17Q-1AG	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	40	RS-232	Yes	\$412.00
TSM17Q-1RG	NEMA 17	12-48 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	40	RS-485	Yes	\$418.00
TSM17Q-2AG	NEMA 17	12-48 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	59	RS-232	Yes	\$415.00
TSM17Q-2RG	NEMA 17	12-48 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	59	RS-485	Yes	\$421.00
TSM17Q-3AG	NEMA 17	12-48 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	73	RS-232	Yes	\$418.00
TSM17Q-3RG	NEMA 17	12-48 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	73	RS-485	Yes	\$424.00
TSM23C-2CG	NEMA 23	12-70 VDC	CANopen	142	CANopen	Yes	\$562.00
TSM23C-3CG	NEMA 23	12-70 VDC	CANopen	212	CANopen	Yes	\$576.00
TSM23C-4CG	NEMA 23	12-70 VDC	CANopen	340	CANopen	Yes	\$631.00
TSM23P-2AG	NEMA 23	12-70 VDC	Step & Direction	142	RS-232	Yes	\$392.00
TSM23P-3AG	NEMA 23	12-70 VDC	Step & Direction	212	RS-232	Yes	\$403.00
TSM23P-4AG	NEMA 23	12-70 VDC	Step & Direction, Encoder Following	340	RS-232	Yes	\$445.00
TSM23Q-2AG	NEMA 23	12-70 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	142	RS-232	Yes	\$507.00
TSM23Q-2RG	NEMA 23	12-70 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	142	RS-485	Yes	\$514.00
TSM23Q-3AG	NEMA 23	12-70 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	212	RS-232	Yes	\$521.00
TSM23Q-3RG	NEMA 23	12-70 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	212	RS-485	Yes	\$529.00
TSM23Q-4AG	NEMA 23	12-70 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	340	RS-232	Yes	\$576.00
TSM23Q-4RG	NEMA 23	12-70 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	340	RS-485	Yes	\$584.00
TSM23S-2AG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	142	RS-232	Yes	\$427.00
TSM23S-2RG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	142	RS-485	Yes	\$433.00
			Step & Direction, Analog Torque /				

TSM23S-3AG	NEMA 23	12-70 VDC	Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	212	RS-232	Yes	\$439.00
TSM23S-3RG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	212	RS-485	Yes	\$446.00
TSM23S-4AG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	340	RS-232	Yes	\$485.00
TSM23S-4RG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	340	RS-485	Yes	\$491.00
TSM34C-1CG	NEMA 34	24-70 VDC	CANopen	382	CANopen	Yes	\$585.00
TSM34C-3CG	NEMA 34	24-70 VDC	CANopen	736	CANopen	Yes	\$644.00
TSM34C-5CG	NEMA 34	24-70 VDC	CANopen	949	CANopen	Yes	\$720.00
TSM34C-6CG	NEMA 34	48-70 VDC	CANopen	1161	CANopen	Yes	\$805.00
TSM34IP-1DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	382	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$669.00
TSM34IP-3DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	736	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$728.00
TSM34IP-5DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	949	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$804.00
TSM34IP-6DG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	1161	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$888.00
TSM34Q-1AG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	382	RS-232	Yes	\$551.00
TSM34Q-1DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	382	Ethernet, Ethernet, dual-port	Yes	\$619.00
TSM34Q-1RG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	382	RS-485	Yes	\$568.00
TSM34Q-3AG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	736	RS-232	Yes	\$610.00
TSM34Q-3DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	736	Ethernet, Ethernet, dual-port	Yes	\$678.00
TSM34Q-3RG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	736	RS-485	Yes	\$627.00
TSM34Q-5AG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder	949	RS-232	Yes	\$686.00

			Following, Q Programming, Velocity Control, Modbus RTU				
TSM34Q-5DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	949	Ethernet, Ethernet, dual-port	Yes	\$754.00
TSM34Q-5RG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	949	RS-485	Yes	\$703.00
TSM34Q-6AG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	1161	RS-232	Yes	\$771.00
TSM34Q-6DG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	1161	Ethernet, Ethernet, dual-port	Yes	\$838.00
TSM34Q-6RG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	1161	RS-485	Yes	\$788.00
TXM24C-1CG	NEMA 24	12-70 VDC	CANopen	116	CANopen	Yes	\$824.00
TXM24C-3CG	NEMA 24	12-70 VDC	CANopen	340	CANopen	Yes	\$868.00
TXM24IP-1EG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	116	Ethernet, EtherNet/IP	Yes	\$854.00
TXM24IP-3EG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	340	Ethernet, EtherNet/IP	Yes	\$898.00
TXM24Q-1AG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	116	RS-232	Yes	\$763.00
TXM24Q-1EG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	116	Ethernet	Yes	\$785.00
TXM24Q-1RG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	116	RS-485	Yes	\$774.00
TXM24Q-3AG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	340	RS-232	Yes	\$807.00
TXM24Q-3EG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	340	Ethernet	Yes	\$829.00
TXM24Q-3RG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	340	RS-485	Yes	\$818.00
TXM24S-1AG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	116	RS-232	Yes	\$636.00
			Step & Direction, Analog Torque / Velocity, Streaming Commands				

TXM24S-1EG	NEMA 24	12-70 VDC	Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	116	Ethernet	Yes	\$658.00
TXM24S-1RG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	116	RS-485	Yes	\$647.00
TXM24S-3AG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	340	RS-232	Yes	\$672.00
TXM24S-3EG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	340	Ethernet	Yes	\$694.00
TXM24S-3RG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control	340	RS-485	Yes	\$683.00
TXM34C-1CG	NEMA 34	24-70 VDC	CANopen	382	CANopen	Yes	\$992.00
TXM34C-3CG	NEMA 34	24-70 VDC	CANopen	736	CANopen	Yes	\$1051.00
TXM34C-5CG	NEMA 34	24-70 VDC	CANopen	949	CANopen	Yes	\$1127.00
TXM34C-6CG	NEMA 34	48-70 VDC	CANopen	1161	CANopen	Yes	\$1212.00
TXM34IP-1DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	382	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$1076.00
TXM34IP-3DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	736	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$1135.00
TXM34IP-5DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	949	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$1211.00
TXM34IP-6DG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	1161	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$1296.00
TXM34Q-1AG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	382	RS-232	Yes	\$896.00
TXM34Q-1DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	382	Ethernet, Ethernet, dual-port	Yes	\$1026.00
TXM34Q-1RG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	382	RS-485	Yes	\$975.00
TXM34Q-3AG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	736	RS-232	Yes	\$955.00
TXM34Q-3DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	736	Ethernet, Ethernet, dual-port	Yes	\$1085.00
TXM34Q-3RG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming,	736	RS-485	Yes	\$1034.00

			Velocity Control, Modbus RTU				
TXM34Q-5AG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	949	RS-232	Yes	\$1031.00
TXM34Q-5DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	949	Ethernet, Ethernet, dual-port	Yes	\$1161.00
TXM34Q-5RG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	949	RS-485	Yes	\$1110.00
TXM34Q-6AG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	1161	RS-232	Yes	\$1116.00
TXM34Q-6DG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	1161	Ethernet, Ethernet, dual-port	Yes	\$1246.00
TXM34Q-6RG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	1161	RS-485	Yes	\$1195.00

Products in the Series *Modbus TCP Products*

Part Number	Frame Size	Supply Voltage	Control Modes	Holding Torque	Communication Ports	Encoder Feedback	1pc.
	NA	24-70 VDC	Streaming Commands, Q Programming, CANopen, EtherNet/IP, Modbus RTU, Modbus TCP, EtherCAT	NA	RS-485, CANopen, Ethernet, EtherNet/IP, EtherCAT, Ethernet, dual-port	No	\$176.00
	NA	12-48 VDC	Streaming Commands, Q Programming, CANopen, EtherNet/IP, Modbus RTU, Modbus TCP, EtherCAT	NA	RS-485, CANopen, Ethernet, EtherNet/IP, EtherCAT, Ethernet, dual-port	No	\$154.00
	NA	12-48 VDC	Streaming Commands, Q Programming, CANopen, EtherNet/IP, Modbus RTU, Modbus TCP, EtherCAT	NA	RS-485, CANopen, Ethernet, EtherNet/IP, EtherCAT, Ethernet, dual-port	No	\$165.00
5000-177	NA	24-48 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	NA	Ethernet	No	\$564.00
5000-178	NA	24-48 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	NA	Ethernet	Yes	\$614.00
5000-179	NA	24-80 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	NA	Ethernet	No	\$660.00
5000-180	NA	24-80 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	NA	Ethernet	Yes	\$726.00
5000-181	NA	24-80 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	No	\$659.00
5000-182	NA	24-80 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	Yes	\$710.00
5000-183	NA	24-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	No	\$607.00
5000-184	NA	24-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	Yes	\$655.00
5000-194	NA	94-135 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	Yes	\$710.00
5000-195	NA	94-265 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	Yes	\$710.00
5000-196	NA	94-135 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	No	\$659.00
5000-197	NA	94-265 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	No	\$659.00

5000-198	NA	94-135 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming	NA	Ethernet	Yes	\$726.00
5000-199	NA	94-265 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming	NA	Ethernet	Yes	\$726.00
5000-200	NA	94-135 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming	NA	Ethernet	No	\$660.00
5000-201	NA	94-265 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming	NA	Ethernet	No	\$660.00
SSM23IP-2EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	142	Ethernet, EtherNet/IP	Yes	\$575.00
SSM23IP-3EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	212	Ethernet, EtherNet/IP	Yes	\$585.00
SSM23IP-4EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	340	Ethernet, EtherNet/IP	Yes	\$595.00
SSM23Q-2EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	142	Ethernet	Yes	\$524.00
SSM23Q-3EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	212	Ethernet	Yes	\$534.00
SSM23Q-4EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	340	Ethernet	Yes	\$545.00
STM23Q-2EE	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	125	Ethernet	Yes	\$452.00
STM23Q-2EN	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	125	Ethernet	No	\$377.00
STM23Q-3EE	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	210	Ethernet	Yes	\$468.00
STM23Q-3EN	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	210	Ethernet	No	\$393.00
STM24Q-3EE	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	340	Ethernet	Yes	\$576.00
STM24Q-3EN	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming,	340	Ethernet	No	\$501.00

			Modbus TCP				
SV2A5-Q-EE	NA	78-139 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	NA	Ethernet	NA	\$658.00
SV2B3-Q-EE	NA	156-264 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	NA	Ethernet	NA	\$528.00
SV2B5-Q-EE	NA	156-264 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	NA	Ethernet	NA	\$658.00
SV2D10-IP-DE	NA	24-60VDC	Q Programming, EtherNet/IP	NA	Ethernet, EtherNet/IP, Ethernet, dual-port	NA	\$398.00
SV2D10-Q-DE	NA	24-60VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	NA	Ethernet, Ethernet, dual-port	NA	\$359.00
SWM24Q-3EE	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus TCP	340	Ethernet	Yes	\$794.00
TSM34Q-1DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	382	Ethernet, Ethernet, dual-port	Yes	\$619.00
TSM34Q-3DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	736	Ethernet, Ethernet, dual-port	Yes	\$678.00
TSM34Q-5DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	949	Ethernet, Ethernet, dual-port	Yes	\$754.00
TSM34Q-6DG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	1161	Ethernet, Ethernet, dual-port	Yes	\$838.00
TXM24Q-1EG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	116	Ethernet	Yes	\$785.00
TXM24Q-3EG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	340	Ethernet	Yes	\$829.00
TXM34Q-1DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	382	Ethernet, Ethernet, dual-port	Yes	\$1026.00
TXM34Q-3DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	736	Ethernet, Ethernet, dual-port	Yes	\$1085.00

TXM34Q-5DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	949	Ethernet, Ethernet, dual-port	Yes	\$1161.00
TXM34Q-6DG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP	1161	Ethernet, Ethernet, dual-port	Yes	\$1246.00

Products in the Series *EtherNet/IP Products*

Part Number	Frame Size	Supply Voltage	Control Modes	Holding Torque	Communication Ports	Encoder Feedback	1pc.
	NA	12-48 VDC	Streaming Commands, Q Programming, CANopen, EtherNet/IP, Modbus RTU, Modbus TCP, EtherCAT	NA	RS-485, CANopen, Ethernet, EtherNet/IP, EtherCAT, Ethernet, dual-port	No	\$154.00
	NA	12-48 VDC	Streaming Commands, Q Programming, CANopen, EtherNet/IP, Modbus RTU, Modbus TCP, EtherCAT	NA	RS-485, CANopen, Ethernet, EtherNet/IP, EtherCAT, Ethernet, dual-port	No	\$165.00
	NA	24-70 VDC	Streaming Commands, Q Programming, CANopen, EtherNet/IP, Modbus RTU, Modbus TCP, EtherCAT	NA	RS-485, CANopen, Ethernet, EtherNet/IP, EtherCAT, Ethernet, dual-port	No	\$176.00
5000-181	NA	24-80 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	No	\$659.00
5000-182	NA	24-80 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	Yes	\$710.00
5000-183	NA	24-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	No	\$607.00
5000-184	NA	24-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	Yes	\$655.00
5000-194	NA	94-135 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	Yes	\$710.00
5000-195	NA	94-265 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	Yes	\$710.00
5000-196	NA	94-135 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	No	\$659.00
5000-197	NA	94-265 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	NA	Ethernet, EtherNet/IP	No	\$659.00
SSM23IP-2EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	142	Ethernet, EtherNet/IP	Yes	\$575.00
SSM23IP-3EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	212	Ethernet, EtherNet/IP	Yes	\$585.00
SSM23IP-4EG	NEMA 23	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	340	Ethernet, EtherNet/IP	Yes	\$595.00
STM23IP-2EE	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming,	125	Ethernet, EtherNet/IP	Yes	\$525.00

				EtherNet/IP, Modbus TCP				
STM23IP-2EN	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	125	Ethernet, EtherNet/IP	No	\$450.00	
STM23IP-3EE	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	210	Ethernet, EtherNet/IP	Yes	\$535.00	
STM23IP-3EN	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	210	Ethernet, EtherNet/IP	No	\$460.00	
STM24IP-3EE	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	340	Ethernet, EtherNet/IP	Yes	\$626.00	
STM24IP-3EN	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	340	Ethernet, EtherNet/IP	No	\$551.00	
SV2A3-IP-DE	NA	78-139 VAC	Q Programming, EtherNet/IP	NA	Ethernet, EtherNet/IP, Ethernet, dual-port	NA	\$567.00	
SV2A5-IP-DE	NA	78-139 VAC	Q Programming, EtherNet/IP	NA	Ethernet, EtherNet/IP, Ethernet, dual-port	NA	\$697.00	
SV2B3-IP-DE	NA	156-264 VAC	Q Programming, EtherNet/IP	NA	Ethernet, EtherNet/IP, Ethernet, dual-port	NA	\$567.00	
SV2B5-IP-DE	NA	156-264 VAC	Q Programming, EtherNet/IP	NA	Ethernet, EtherNet/IP, Ethernet, dual-port	NA	\$697.00	
SV2D10-IP-DE	NA	24-60VDC	Q Programming, EtherNet/IP	NA	Ethernet, EtherNet/IP, Ethernet, dual-port	NA	\$398.00	
SWM24IP-3EE	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Modbus TCP	340	Ethernet	Yes	\$857.00	
TSM34IP-1DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	382	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$669.00	
TSM34IP-3DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	736	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$728.00	
TSM34IP-5DG	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	949	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$804.00	
TSM34IP-6DG	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	1161	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$888.00	
TXM24IP-1EG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	116	Ethernet, EtherNet/IP	Yes	\$854.00	
TXM24IP-3EG	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	340	Ethernet, EtherNet/IP	Yes	\$898.00	
TXM24IP			Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog					

<u>TXM34IP-1DG</u>	NEMA 34	24-70 VDC	Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	382	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$1076.00
<u>TXM34IP-3DG</u>	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	736	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$1135.00
<u>TXM34IP-5DG</u>	NEMA 34	24-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	949	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$1211.00
<u>TXM34IP-6DG</u>	NEMA 34	48-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control, Modbus TCP	1161	Ethernet, EtherNet/IP, Ethernet, dual-port	Yes	\$1296.00