

TSM11Q-1RM-H01

NEMA 11 StepSERVO™ Integrated Motor w/ Daisy-chain connectors, Q Prog. & Modbus



Product Features

- StepSERVO™ technology featuring space vector current control
- NEMA 11 frame size
- Enhanced (separate) connectors for power & I/O and comms
- Q programming control mode for stand-alone operation
- Modbus RTU for easy PLC and HMI communication
- “Boost” torque of 25-50% higher than holding torque
- Dual RS-485 ports for programming, communications, and daisy-chain network connections
- Built-in 4,096 count/rev encoder for closed-loop control



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Description

Specifications

Torque Curves

The TSM11Q-1RM-H01 StepSERVO™ integrated motor is a variation of the standard TSM11Q-1RM. This “H01” version includes a pre-assembled connector module that separates the single connector of the standard motor into three separate connectors - one connector for power and I/O, one for RS-485 in, and one for RS-485 out - which facilitates easier connections for daisy-chained RS-485 and Modbus RTU networks.

Software

Downloads

chained RS-485 and Modbus RTU networks.

For more information on the functionality and capabilities of this integrated motor see the standard [TSM11Q-1RM](#) page.

What's in the Box?

- TSM11Q-1RM-H01 with enhanced (separate) connectors for power & I/O and comms
- 3004-358 power and I/O cable
- 3004-310-1M RS-485 daisy-chain cable
- 3004-313-1M RS-485 configuration cable
- Quick Setup Guide (also available in Downloads)

NOT included:

- DC power supply (required), see Power Supplies below
- Additional accessories available below

Archived:

Not Archived

Series:

- [Modbus RTU Products](#)
- [StepSERVO Integrated Motors](#)
- [TSM11 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 *TSM11 StepSERVO™ Integrated Motors*

Part Number	Frame Size	Supply Voltage	Control Modes	Holding Torque	Communication Ports	Encoder Feedback	1pc.
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

Products in the Series *Modbus RTU 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
5000-128	NA	24-48 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible, Modbus RTU	NA	RS-232	No	\$467.00
5000-130	NA	24-48 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible, Modbus RTU	NA	RS-232	Yes	\$540.00
5000-132	NA	24-48 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	NA	RS-232, RS-485	No	\$570.00
5000-134	NA	24-48 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	NA	RS-232, RS-485	Yes	\$625.00
5000-138	NA	24-80 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible, Modbus RTU	NA	RS-232	No	\$515.00
5000-140	NA	24-80 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible, Velocity Control, Modbus RTU	NA	RS-232	Yes	\$580.00
5000-142	NA	24-80 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	NA	RS-232, RS-485	No	\$630.00
5000-144	NA	24-80 VDC	Step & Direction, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	NA	RS-232, RS-485	Yes	\$690.00
5000-244	NA	24-48 VDC	Step & Direction, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible,	NA	RS-232	Yes	\$530.00

			Velocity Control, Modbus RTU				
5000-245	NA	24-80 VDC	Step & Direction, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible, Velocity Control, Modbus RTU	NA	RS-232	Yes	\$557.00
STM17Q-1AE	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	31	RS-232	Yes	\$347.00
STM17Q-1AN	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	31	RS-232	No	\$272.00
STM17Q-1RE	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	31	RS-485	Yes	\$353.00
STM17Q-1RN	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	31	RS-485	No	\$278.00
STM17Q-2AE	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	54	RS-232	Yes	\$350.00
STM17Q-2AN	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	54	RS-232	No	\$275.00
STM17Q-2RE	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	54	RS-485	Yes	\$356.00
STM17Q-2RN	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	54	RS-485	No	\$281.00
STM17Q-3AE	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	68	RS-232	Yes	\$353.00
STM17Q-3AN	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	68	RS-232	No	\$288.00
STM17Q-3RE	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	68	RS-485	Yes	\$360.00
STM17Q-3RN	NEMA 17	12-48 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	68	RS-485	No	\$295.00
STM23Q-2AE	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible, Modbus RTU	125	RS-232	Yes	\$440.00
STM23Q-2AN	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible, Modbus RTU	125	RS-232	No	\$365.00
STM23Q-2RE	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	125	RS-485	Yes	\$447.00
STM23Q-2RN	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	125	RS-485	No	\$372.00
			Streaming Commands,				

STM23Q-3AE	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible, Modbus RTU	210	RS-232	Yes	\$456.00
STM23Q-3AN	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, SiNet Hub Compatible, Modbus RTU	210	RS-232	No	\$381.00
STM23Q-3RE	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	210	RS-485	Yes	\$463.00
STM23Q-3RN	NEMA 23	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	210	RS-485	No	\$388.00
STM24QF-3AE	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	340	RS-232	Yes	\$564.00
STM24QF-3AN	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	340	RS-232	No	\$489.00
STM24QF-3RE	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	340	RS-485	Yes	\$572.00
STM24QF-3RN	NEMA 24	12-70 VDC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	340	RS-485	No	\$497.00
SV2A3-Q-RE	NA	78-139 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	NA	RS-485	NA	\$519.00
SV2A5-Q-RE	NA	78-139 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	NA	RS-485	NA	\$649.00
SV2B3-Q-RE	NA	156-264 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	NA	RS-485	NA	\$519.00
SV2B5-Q-RE	NA	156-264 VAC	Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	NA	RS-485	NA	\$649.00
SV2D10-Q-AE	NA	24-60 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming	NA	RS-232	NA	\$359.00
SV2D10-Q-RE	NA	24-60 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	NA	RS-485	NA	\$359.00
SWM24QF-3AE	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Velocity (Oscillator), Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Modbus RTU	340	RS-232	Yes	\$772.00
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

<u>TSM11Q-2RM</u>	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	11.3	RS-485	Yes	\$264.00
<u>TSM11Q-2RM-H01</u>	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	11.3	RS-485	Yes	\$278.00
<u>TSM11Q-3RM</u>	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	17.7	RS-485	Yes	\$271.00
<u>TSM11Q-3RM-H01</u>	NEMA 11	15-30 VDC	Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU	17.7	RS-485	Yes	\$285.00
<u>TSM17Q-1AG</u>	NEMA 17	12-48 VDC	Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU	40	RS-232	Yes	\$412.00
<u>TSM17Q-1RG</u>	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
<u>TSM17Q-2AG</u>	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
<u>TSM17Q-2RG</u>	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
<u>TSM17Q-3AG</u>	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
<u>TSM17Q-3RG</u>	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
<u>TSM23Q-2AG</u>	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
<u>TSM23Q-2RG</u>	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
<u>TSM23Q-3AG</u>	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
<u>TSM23Q-3RG</u>	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

			Velocity Control, Modbus RTU				
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
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-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-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 Following, Q Programming, Velocity Control, Modbus RTU	949	RS-232	Yes	\$686.00
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-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
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-	NEMA 24	12-70 VDC	Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder	116	RS-485	Yes	\$771.00

1RG	NEMA 24	12-70 VDC	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-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
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-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-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	\$1034.00
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-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-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