

## TSM34C-1CG

*NEMA 34 StepSERVO Integrated Motor w/ CANopen and Q Programming*



### Product Features

- StepSERVO technology featuring space vector current control
- Peak torques for greater acceleration and throughput
- Higher efficiency, lower power consumption than open loop steppers
- Hi-resolution 20,000 count encoder for closed-loop control
- NEMA 34 frame size
- CANopen Protocol – CiA 301 and 402 standards
- Network speeds up to 1 Mbps
- Dual CAN connectors for easy networking
- RS-232 port for configuration



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### Description

#### Specifications

#### Torque Curves

#### Software

The TSM34C-1CG StepSERVO integrated motor is a drive+motor unit, fusing a NEMA 34 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 70 volt DC [power supplies](#).

StepSERVO technology combines the high torque capabilities of a step motor with the closed

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 (or peak) torque that is higher than the rated holding torque increases the limits of acceleration, leading to faster cycle times. With software selectable servo loops that have been pre-tuned for various inertial loads, the TSM StepSERVO can be applied in systems where a traditional stepper would not be capable of achieving the high accuracy required.

The TSM34C-1CG StepSERVO integrated motor is specifically designed to operate on a CANopen communication network and conforms to CAN in Automation (CiA) 301 and 402 specifications. It supports Profile Position, Profile Velocity, and Homing modes, as well as the ability to run stored Q programs via Applied Motion-specific CANopen objects. All TSM34 units are set up, configured and tuned using Applied Motion's [Step-Servo Quick Tuner](#) software with built in Q Programmer.

Each TSM34 integrated motor comes with 8 digital inputs, 4 digital outputs, and 1 analog input. The digital inputs accept signals of 5-24 VDC and can be used for connecting end-of-travel limit switches, PLC outputs, sensors, or many other signal types. The digital outputs can be connected to PLC inputs, counters, lights, relays, or other devices. The analog input accepts 0-5 VDC signals and can be used as an additional sensor input.

The TSM34C-1CG features two communication ports: RS-232 for configuration and CAN bus for CANopen control. An integral 5000-line (20,000 count/rev) incremental encoder is housed inside the same enclosure as the drive electronics and used for closed-loop servo control to attain highly accurate position and velocity control. Encoder counts can be accessed over the CANopen network or from within a Q program using data registers.

#### What's in the Box?

- TSM34C-1CG integrated motor
- Mating power connector (4-pin)
- 3004-311-1M CANopen cable (for details see Accessories below)
- 3004-313-1M RS-485/CANopen cable (for details see Accessories below)
- 3004-317 programming cable
- 3004-308-2M or 3004-318-2M I/O cable (for details see Accessories below)
- 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:**

- [CANopen Products](#)
- [NEMA 34 StepSERVO Integrated Motors](#)
- [StepSERVO Integrated Motors](#)

## Products in the Series *NEMA 34 StepSERVO Integrated Motors*

| Part Number                | Frame Size | Supply Voltage | Control Modes                                                                                                                                      | Holding Torque | Communication Ports | Encoder Feedback | 1pc.      |
|----------------------------|------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------------|-----------|
| <a href="#">TSM34C-1CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen                                                                                                                             | 382            | CANopen             | Yes              | \$585.00  |
| <a href="#">TSM34C-3CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen                                                                                                                             | 736            | CANopen             | Yes              | \$644.00  |
| <a href="#">TSM34C-5CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen                                                                                                                             | 949            | CANopen             | Yes              | \$720.00  |
| <a href="#">TSM34C-6CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen                                                                                                                             | 1161           | CANopen             | Yes              | \$805.00  |
| <a href="#">TSM34Q-1AG</a> | 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  |
| <a href="#">TSM34Q-1DG</a> | NEMA 34    | 24-70 VDC      | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 382            | Ethernet            | Yes              | \$619.00  |
| <a href="#">TSM34Q-1RG</a> | 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  |
| <a href="#">TSM34Q-3AG</a> | 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  |
| <a href="#">TSM34Q-3DG</a> | NEMA 34    | 24-70 VDC      | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 736            | Ethernet            | Yes              | \$678.00  |
| <a href="#">TSM34Q-3RG</a> | 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  |
| <a href="#">TSM34Q-5AG</a> | 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  |
| <a href="#">TSM34Q-5DG</a> | NEMA 34    | 24-70 VDC      | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 949            | Ethernet            | Yes              | \$754.00  |
| <a href="#">TSM34Q-5RG</a> | 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  |
| <a href="#">TSM34Q-6AG</a> | NEMA 34    | 24-70 VDC      | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU | 1161           | RS-232              | Yes              | \$771.00  |
| <a href="#">TSM34Q-6DG</a> | NEMA 34    | 24-70 VDC      | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 1161           | Ethernet            | Yes              | \$838.00  |
| <a href="#">TSM34Q-6RG</a> | NEMA 34    | 24-70 VDC      | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU | 1161           | RS-485              | Yes              | \$788.00  |
| <a href="#">TXM34C-1CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen                                                                                                                             | 382            | CANopen             | Yes              | \$992.00  |
| <a href="#">TXM34C-3CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen                                                                                                                             | 736            | CANopen             | Yes              | \$1051.00 |
| <a href="#">TXM34C-5CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen                                                                                                                             | 949            | CANopen             | Yes              | \$1127.00 |
| <a href="#">TXM34C-6CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen                                                                                                                             | 1161           | CANopen             | Yes              | \$1212.00 |

|                             |         |           |                                                                                                                                                    |      |          |     |           |
|-----------------------------|---------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----|-----------|
| <a href="#">TXM34Q-0CCG</a> | NEMA 34 | 24-70 VDC | Q Programming, CANopen                                                                                                                             | 1161 | CANopen  | Yes | \$1212.00 |
| <a href="#">TXM34Q-1AG</a>  | 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  |
| <a href="#">TXM34Q-1DG</a>  | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 382  | Ethernet | Yes | \$1026.00 |
| <a href="#">TXM34Q-1RG</a>  | 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  |
| <a href="#">TXM34Q-3AG</a>  | 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  |
| <a href="#">TXM34Q-3DG</a>  | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 736  | Ethernet | Yes | \$1085.00 |
| <a href="#">TXM34Q-3RG</a>  | 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 |
| <a href="#">TXM34Q-5AG</a>  | 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 |
| <a href="#">TXM34Q-5DG</a>  | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 949  | Ethernet | Yes | \$1161.00 |
| <a href="#">TXM34Q-5RG</a>  | 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 |
| <a href="#">TXM34Q-6AG</a>  | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU | 1161 | RS-232   | Yes | \$1116.00 |
| <a href="#">TXM34Q-6DG</a>  | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 1161 | Ethernet | Yes | \$1246.00 |
| <a href="#">TXM34Q-6RG</a>  | NEMA 34 | 24-70 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 *StepSERVO Integrated Motors*

| Part Number                 | Frame Size | Supply Voltage | Control Modes                                                                                                                                       | Holding Torque | Communication Ports   | Encoder Feedback | 1pc.     |
|-----------------------------|------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------|------------------|----------|
| <a href="#">SSM23IP-2EG</a> | NEMA 23    | 12-70 VDC      | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control | 142            | Ethernet, EtherNet/IP | Yes              | \$575.00 |
| <a href="#">SSM23IP-3EG</a> | NEMA 23    | 12-70 VDC      | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control | 212            | Ethernet, EtherNet/IP | Yes              | \$585.00 |
| <a href="#">SSM23IP-4EG</a> | NEMA 23    | 12-70 VDC      | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control | 340            | Ethernet, EtherNet/IP | Yes              | \$595.00 |
| <a href="#">TSM11Q-1RM</a>  | NEMA 11    | 15-30 VDC      | Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU                                                | 9.2            | RS-485                | Yes              | \$257.00 |
| <a href="#">TSM11Q-2RM</a>  | NEMA 11    | 15-30 VDC      | Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU                                                | 11.3           | RS-485                | Yes              | \$264.00 |
| <a href="#">TSM11Q-3RM</a>  | NEMA 11    | 15-30 VDC      | Step & Direction, Streaming Commands, Encoder Following, Q Programming, Velocity Control, Modbus RTU                                                | 17.7           | RS-485                | Yes              | \$271.00 |
| <a href="#">TSM17C-1CG</a>  | NEMA 17    | 12-48 VDC      | Q Programming, CANopen                                                                                                                              | 40             | CANopen               | Yes              | \$547.00 |
| <a href="#">TSM17C-2CG</a>  | NEMA 17    | 12-48 VDC      | Q Programming, CANopen                                                                                                                              | 59             | CANopen               | Yes              | \$551.00 |
| <a href="#">TSM17C-3CG</a>  | NEMA 17    | 12-48 VDC      | Q Programming, CANopen                                                                                                                              | 73             | CANopen               | Yes              | \$554.00 |
| <a href="#">TSM17P-1AG</a>  | NEMA 17    | 12-48 VDC      | Step & Direction, Encoder Following                                                                                                                 | 40             | RS-232                | Yes              | \$378.00 |
| <a href="#">TSM17P-2AG</a>  | NEMA 17    | 12-48 VDC      | Step & Direction, Encoder Following                                                                                                                 | 59             | RS-232                | Yes              | \$380.00 |
| <a href="#">TSM17P-3AG</a>  | NEMA 17    | 12-48 VDC      | Step & Direction, Encoder Following                                                                                                                 | 73             | RS-232                | Yes              | \$383.00 |
| <a href="#">TSM17Q-1AG</a>  | 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 |
| <a href="#">TSM17Q-1RG</a>  | 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 |
| <a href="#">TSM17Q-2AG</a>  | 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 |
| <a href="#">TSM17Q-2RG</a>  | 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 |
| <a href="#">TSM17Q-3AG</a>  | 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 |
| <a href="#">TSM17Q-3RG</a>  | 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 |
| <a href="#">TSM23C-2CG</a>  | NEMA 23    | 12-70 VDC      | Q Programming, CANopen                                                                                                                              | 142            | CANopen               | Yes              | \$562.00 |
| <a href="#">TSM23C-3CG</a>  | NEMA 23    | 12-70 VDC      | Q Programming, CANopen                                                                                                                              | 212            | CANopen               | Yes              | \$576.00 |
| <a href="#">TSM23C-4CG</a>  | NEMA 23    | 12-70 VDC      | Q Programming, CANopen                                                                                                                              | 340            | CANopen               | Yes              | \$631.00 |
| <a href="#">TSM23P-2AG</a>  | NEMA 23    | 12-70 VDC      | Step & Direction, Encoder Following                                                                                                                 | 142            | RS-232                | Yes              | \$392.00 |
| <a href="#">TSM23P-3AG</a>  | NEMA 23    | 12-70 VDC      | Step & Direction, Encoder Following                                                                                                                 | 212            | RS-232                | Yes              | \$403.00 |
| <a href="#">TSM23P-4AG</a>  | NEMA 23    | 12-70 VDC      | Step & Direction, Encoder Following                                                                                                                 | 340            | RS-232                | Yes              | \$445.00 |
| <a href="#">TSM23Q-2AG</a>  | NEMA 23    | 12-70 VDC      | Analog Torque / Velocity, Streaming Commands, Analog Positioning,                                                                                   | 142            | RS-232                | Yes              | \$507.00 |

|                            |         |           |                                                                                                                                                    |      |          |     |          |
|----------------------------|---------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----|----------|
| <a href="#">TSM23Q-2RG</a> | NEMA 23 | 12-70 VDC | Encoder Following, Q Programming, Velocity Control, Modbus RTU                                                                                     | 142  | RS-485   | Yes | \$551.00 |
| <a href="#">TSM23Q-2RG</a> | 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 |
| <a href="#">TSM23Q-3AG</a> | 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 |
| <a href="#">TSM23Q-3RG</a> | 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 |
| <a href="#">TSM23Q-4AG</a> | 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 |
| <a href="#">TSM23Q-4RG</a> | NEMA 23 | 12-70 VDC | Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU                   | 340  | NA       | Yes | \$584.00 |
| <a href="#">TSM23S-2AG</a> | NEMA 23 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 142  | RS-232   | Yes | \$427.00 |
| <a href="#">TSM23S-2RG</a> | NEMA 23 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 142  | RS-485   | Yes | \$433.00 |
| <a href="#">TSM23S-3AG</a> | NEMA 23 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 212  | RS-232   | Yes | \$439.00 |
| <a href="#">TSM23S-3RG</a> | NEMA 23 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 212  | RS-485   | Yes | \$446.00 |
| <a href="#">TSM23S-4AG</a> | NEMA 23 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 340  | RS-232   | Yes | \$485.00 |
| <a href="#">TSM23S-4RG</a> | NEMA 23 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 340  | RS-485   | Yes | \$491.00 |
| <a href="#">TSM34C-1CG</a> | NEMA 34 | 24-70 VDC | Q Programming, CANopen                                                                                                                             | 382  | CANopen  | Yes | \$585.00 |
| <a href="#">TSM34C-3CG</a> | NEMA 34 | 24-70 VDC | Q Programming, CANopen                                                                                                                             | 736  | CANopen  | Yes | \$644.00 |
| <a href="#">TSM34C-5CG</a> | NEMA 34 | 24-70 VDC | Q Programming, CANopen                                                                                                                             | 949  | CANopen  | Yes | \$720.00 |
| <a href="#">TSM34C-6CG</a> | NEMA 34 | 24-70 VDC | Q Programming, CANopen                                                                                                                             | 1161 | CANopen  | Yes | \$805.00 |
| <a href="#">TSM34Q-1AG</a> | 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 |
| <a href="#">TSM34Q-1DG</a> | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 382  | Ethernet | Yes | \$619.00 |
| <a href="#">TSM34Q-1RG</a> | 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 |
| <a href="#">TSM34Q-3AG</a> | 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 |
| <a href="#">TSM34Q-3DG</a> | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 736  | Ethernet | Yes | \$678.00 |
| <a href="#">TSM34Q-3RG</a> | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder                                                        | 736  | RS-485   | Yes | \$627.00 |



|                             |         |           |                                                                                                                                                     |      |                       |     |          |
|-----------------------------|---------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-----|----------|
|                             |         |           | Following, Q Programming, Velocity Control, Modbus RTU                                                                                              |      |                       |     |          |
| <a href="#">TSM34Q-5AG</a>  | 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 |
| <a href="#">TSM34Q-5DG</a>  | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP  | 949  | Ethernet              | Yes | \$754.00 |
| <a href="#">TSM34Q-5RG</a>  | 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 |
| <a href="#">TSM34Q-6AG</a>  | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU  | 1161 | RS-232                | Yes | \$771.00 |
| <a href="#">TSM34Q-6DG</a>  | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP  | 1161 | Ethernet              | Yes | \$838.00 |
| <a href="#">TSM34Q-6RG</a>  | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU  | 1161 | RS-485                | Yes | \$788.00 |
| <a href="#">TXM24C-1CG</a>  | NEMA 24 | 12-70 VDC | Q Programming, CANopen                                                                                                                              | 116  | CANopen               | Yes | \$824.00 |
| <a href="#">TXM24C-3CG</a>  | NEMA 24 | 12-70 VDC | Q Programming, CANopen                                                                                                                              | 340  | CANopen               | Yes | \$868.00 |
| <a href="#">TXM24IP-1EG</a> | NEMA 24 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control | 116  | Ethernet, EtherNet/IP | Yes | \$854.00 |
| <a href="#">TXM24IP-3EG</a> | NEMA 24 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, EtherNet/IP, Velocity Control | 340  | Ethernet, EtherNet/IP | Yes | \$898.00 |
| <a href="#">TXM24Q-1AG</a>  | 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 |
| <a href="#">TXM24Q-1EG</a>  | 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 |
| <a href="#">TXM24Q-1RG</a>  | 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 |
| <a href="#">TXM24Q-3AG</a>  | 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 |
| <a href="#">TXM24Q-3EG</a>  | 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 |
| <a href="#">TXM24Q-3RG</a>  | 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 |
| <a href="#">TXM24S-1AG</a>  | 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 /                                                                                                                   |      |                       |     |          |

|                            |         |           |                                                                                                                                                    |      |          |     |           |
|----------------------------|---------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----|-----------|
| <a href="#">TXM24S-1EG</a> | NEMA 24 | 12-70 VDC | Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                                                              | 116  | Ethernet | Yes | \$658.00  |
| <a href="#">TXM24S-1RG</a> | NEMA 24 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 116  | RS-485   | Yes | \$647.00  |
| <a href="#">TXM24S-3AG</a> | NEMA 24 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 340  | RS-232   | Yes | \$672.00  |
| <a href="#">TXM24S-3EG</a> | NEMA 24 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 340  | Ethernet | Yes | \$694.00  |
| <a href="#">TXM24S-3RG</a> | NEMA 24 | 12-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Velocity Control                            | 340  | RS-485   | Yes | \$683.00  |
| <a href="#">TXM34C-1CG</a> | NEMA 34 | 24-70 VDC | Q Programming, CANopen                                                                                                                             | 382  | CANopen  | Yes | \$992.00  |
| <a href="#">TXM34C-3CG</a> | NEMA 34 | 24-70 VDC | Q Programming, CANopen                                                                                                                             | 736  | CANopen  | Yes | \$1051.00 |
| <a href="#">TXM34C-5CG</a> | NEMA 34 | 24-70 VDC | Q Programming, CANopen                                                                                                                             | 949  | CANopen  | Yes | \$1127.00 |
| <a href="#">TXM34C-6CG</a> | NEMA 34 | 24-70 VDC | Q Programming, CANopen                                                                                                                             | 1161 | CANopen  | Yes | \$1212.00 |
| <a href="#">TXM34Q-1AG</a> | 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  |
| <a href="#">TXM34Q-1DG</a> | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 382  | Ethernet | Yes | \$1026.00 |
| <a href="#">TXM34Q-1RG</a> | 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  |
| <a href="#">TXM34Q-3AG</a> | 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  |
| <a href="#">TXM34Q-3DG</a> | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 736  | Ethernet | Yes | \$1085.00 |
| <a href="#">TXM34Q-3RG</a> | 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 |
| <a href="#">TXM34Q-5AG</a> | 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 |
| <a href="#">TXM34Q-5DG</a> | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 949  | Ethernet | Yes | \$1161.00 |
| <a href="#">TXM34Q-5RG</a> | 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 |
| <a href="#">TXM34Q-6AG</a> | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus RTU | 1161 | RS-232   | Yes | \$1116.00 |
| <a href="#">TXM34Q-6DG</a> | NEMA 34 | 24-70 VDC | Step & Direction, Analog Torque / Velocity, Streaming Commands, Analog Positioning, Encoder Following, Q Programming, Velocity Control, Modbus TCP | 1161 | Ethernet | Yes | \$1246.00 |



|                            |         |           |                                                                                                                                                    |      |        |     |           |
|----------------------------|---------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|-----|-----------|
| <a href="#">TXM34Q-6RG</a> | NEMA 34 | 24-70 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 *CANopen Products*

| Part Number                | Frame Size | Supply Voltage | Control Modes          | Holding Torque | Communication Ports | Encoder Feedback | 1pc.      |
|----------------------------|------------|----------------|------------------------|----------------|---------------------|------------------|-----------|
| <a href="#">5000-136</a>   | NA         | 24-48 VDC      | CANopen                | NA             | RS-232, CANopen     | No               | \$541.00  |
| <a href="#">5000-137</a>   | NA         | 24-48 VDC      | CANopen                | NA             | RS-232, CANopen     | Yes              | \$585.00  |
| <a href="#">5000-146</a>   | NA         | 24-80 VDC      | CANopen                | NA             | RS-232, CANopen     | No               | \$631.00  |
| <a href="#">5000-147</a>   | NA         | 24-80 VDC      | CANopen                | NA             | RS-232, CANopen     | Yes              | \$682.00  |
| <a href="#">5000-152</a>   | NA         | 94-135 VAC     | CANopen                | NA             | RS-232, CANopen     | Yes              | \$1107.00 |
| <a href="#">5000-153</a>   | NA         | 94-265 VAC     | CANopen                | NA             | RS-232, CANopen     | Yes              | \$1212.00 |
| <a href="#">5000-160</a>   | NA         | 24-80 VDC      | CANopen                | NA             | RS-232, CANopen     | NA               | \$585.00  |
| <a href="#">STM17C-3CE</a> | NEMA 17    | 12-48 VDC      | CANopen                | 68             | RS-232, CANopen     | Yes              | \$470.00  |
| <a href="#">STM17C-3CN</a> | NEMA 17    | 12-48 VDC      | CANopen                | 68             | RS-232, CANopen     | No               | \$395.00  |
| <a href="#">STM23C-3CE</a> | NEMA 23    | 12-70 VDC      | CANopen                | 210            | RS-232, CANopen     | Yes              | \$535.00  |
| <a href="#">STM23C-3CN</a> | NEMA 23    | 12-70 VDC      | CANopen                | 210            | RS-232, CANopen     | No               | \$460.00  |
| <a href="#">STM24C-3CE</a> | NEMA 24    | 12-70 VDC      | CANopen                | 340            | RS-232, CANopen     | Yes              | \$663.00  |
| <a href="#">STM24C-3CN</a> | NEMA 24    | 12-70 VDC      | CANopen                | 340            | RS-232, CANopen     | No               | \$588.00  |
| <a href="#">SV2A3-C-CE</a> | NA         | 78-139 VAC     | CANopen                | NA             | CANopen             | NA               | \$535.00  |
| <a href="#">SV2A5-C-CE</a> | NA         | 78-139 VAC     | CANopen                | NA             | CANopen             | NA               | \$665.00  |
| <a href="#">SV2B3-C-CE</a> | NA         | 156-264 VAC    | CANopen                | NA             | CANopen             | NA               | \$535.00  |
| <a href="#">SV2B5-C-CE</a> | NA         | 156-264 VAC    | CANopen                | NA             | CANopen             | NA               | \$665.00  |
| <a href="#">TSM17C-1CG</a> | NEMA 17    | 12-48 VDC      | Q Programming, CANopen | 40             | CANopen             | Yes              | \$547.00  |
| <a href="#">TSM17C-2CG</a> | NEMA 17    | 12-48 VDC      | Q Programming, CANopen | 59             | CANopen             | Yes              | \$551.00  |
| <a href="#">TSM17C-3CG</a> | NEMA 17    | 12-48 VDC      | Q Programming, CANopen | 73             | CANopen             | Yes              | \$554.00  |
| <a href="#">TSM23C-2CG</a> | NEMA 23    | 12-70 VDC      | Q Programming, CANopen | 142            | CANopen             | Yes              | \$562.00  |
| <a href="#">TSM23C-3CG</a> | NEMA 23    | 12-70 VDC      | Q Programming, CANopen | 212            | CANopen             | Yes              | \$576.00  |
| <a href="#">TSM23C-4CG</a> | NEMA 23    | 12-70 VDC      | Q Programming, CANopen | 340            | CANopen             | Yes              | \$631.00  |
| <a href="#">TSM34C-1CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen | 382            | CANopen             | Yes              | \$585.00  |
| <a href="#">TSM34C-3CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen | 736            | CANopen             | Yes              | \$644.00  |
| <a href="#">TSM34C-5CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen | 949            | CANopen             | Yes              | \$720.00  |
| <a href="#">TSM34C-6CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen | 1161           | CANopen             | Yes              | \$805.00  |
| <a href="#">TXM24C-1CG</a> | NEMA 24    | 12-70 VDC      | Q Programming, CANopen | 116            | CANopen             | Yes              | \$824.00  |
| <a href="#">TXM24C-3CG</a> | NEMA 24    | 12-70 VDC      | Q Programming, CANopen | 340            | CANopen             | Yes              | \$868.00  |
| <a href="#">TXM34C-1CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen | 382            | CANopen             | Yes              | \$992.00  |
| <a href="#">TXM34C-3CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen | 736            | CANopen             | Yes              | \$1051.00 |
| <a href="#">TXM34C-5CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen | 949            | CANopen             | Yes              | \$1127.00 |
| <a href="#">TXM34C-6CG</a> | NEMA 34    | 24-70 VDC      | Q Programming, CANopen | 1161           | CANopen             | Yes              | \$1212.00 |