Servo Products

- **Three drive series to cover a wide range of motors**
- **Common features and control options**
- **Common software tools for configuration and programming**
- **Multiple communication options, including: Ethernet, EtherNet/IP, RS-232/485 and CANopen**
- **Easy system commissioning and tuning using preconfigured setup files**
- **Point-and-click programming with Si Programmer™**
- **Complex motion, multi-tasking, and third-party HMI support with Q Programmer™**
- **Motors with NEMA and Metric frame sizes**
- **Torques from 0.84 to 64 in-lb**

Servo Drives

- SV7
- SVAC3
- BLuAC5

Servo Motors

- M Series
- V Series

Applied Motion Products

SVAC3

400W AC Powered Servo Drive

- **Operates from 120 or 220 VAC**
- **Digital PID servo control**
- **Velocity and acceleration feedforward minimize position error throughout every move**
- **Digital DQ current loop provides wide bandwidth, precise current control**
- **Sine commutation for smooth, quiet motion**
- **PID output filter + derivative filter eliminate system resonances**
- **Jerk filter provides jerk free "S curve" motion**
- **Built-in regeneration (power dump) circuit**
- **100 Mbit Ethernet**
- **Flexible control options**
- **Q Programmable™ version**

Control Options*

S
- Pulse & direction
- CW/CCW pulse
- A/B quadrature
- Velocity (oscillator) mode
- Analog +/-10V torque, velocity, position
- Host commands (SCL)
- *Quick Tuner™* software for setup

Q
- Stand-alone operation
- *Q Programmer™* for complex motion
- *Quick Tuner™* software for setup
- Conditional processing
- Math functions
- Multi-tasking
- Register manipulation
- Encoder following
- Third-party HMI compatibility

IP
- EtherNet/IP
- Connects to industry's most popular PLC's
- Same functions as Q model

*See back page for complete list of available model numbers.

For more information, visit:
## www.applied-motion.com/SVAC3

Communications

Ethernet Port
- The Ethernet port on all SVAC3 drives is used for configuration, programming, and streaming SCL and Q commands to one or more drives across 100 Mbit Ethernet networks (TCP and UDP).

EtherNet/IP option: SV7-IP-EE
- Allows drives to be commanded and queried over EtherNet/IP industrial networks.

SVAC3 Dimensions

5.5

OPT 1

OPT 2

LINE   MOTOR   IN/OUT 1   COMM

Applied Motion Products

1.9

4.5
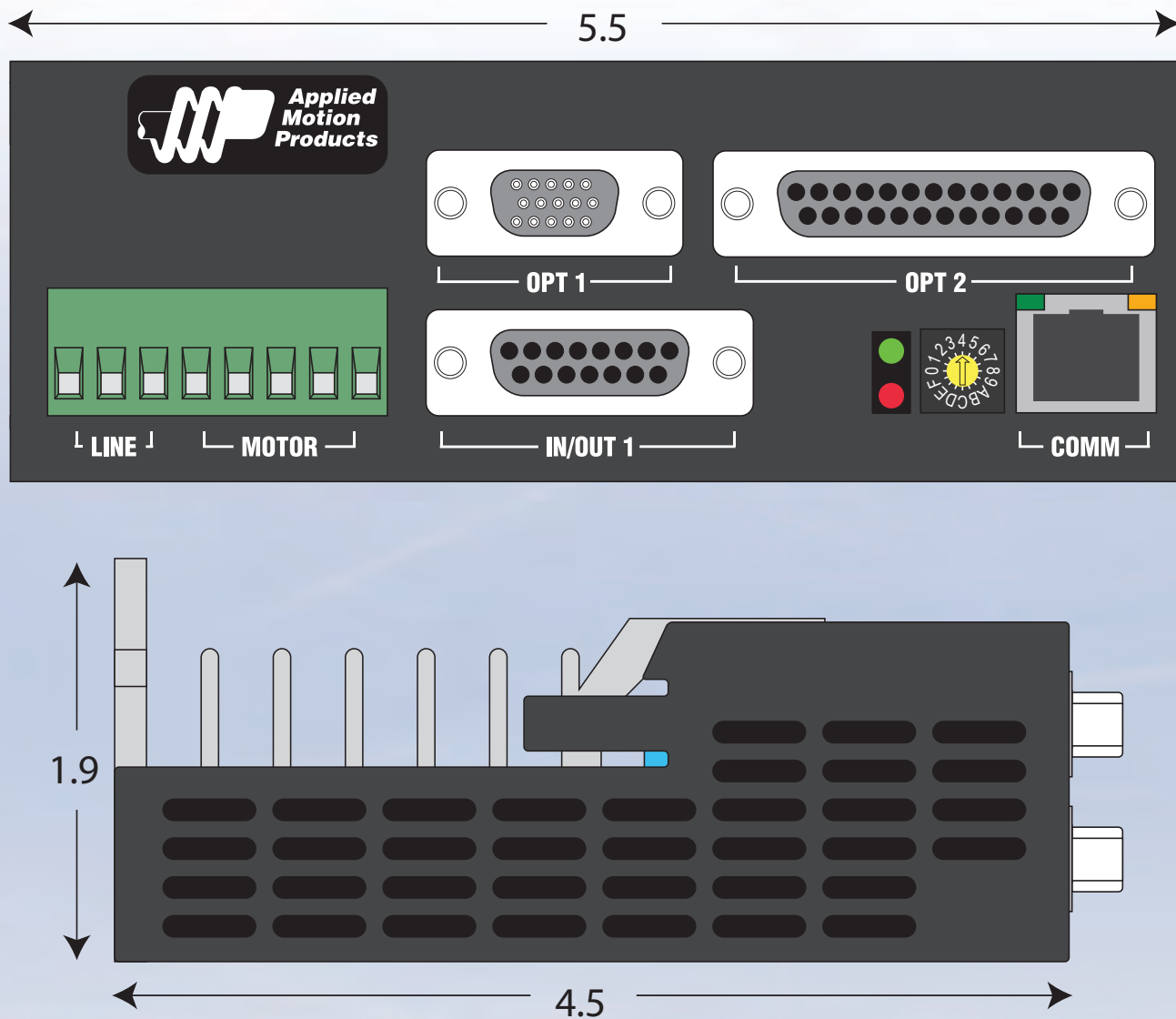
Dimensions in inches
Not to scale

Inputs and Outputs

S

4 digital inputs
2 digital outputs
1 analog input

Q

12 digital inputs
6 digital outputs
1 analog input

IP

12 digital inputs
6 digital outputs
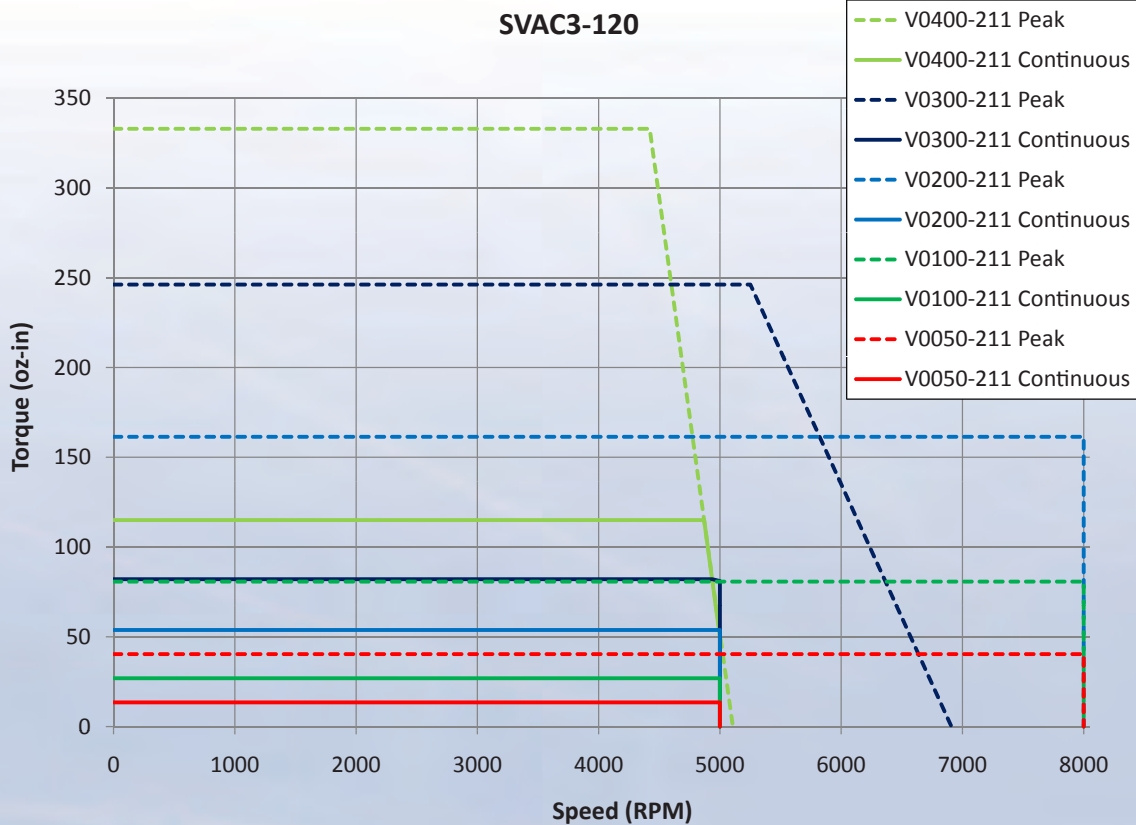1 analog input

Sold & Serviced By:

SERVO2GO.com

Toll Free Phone: 877-378-0240
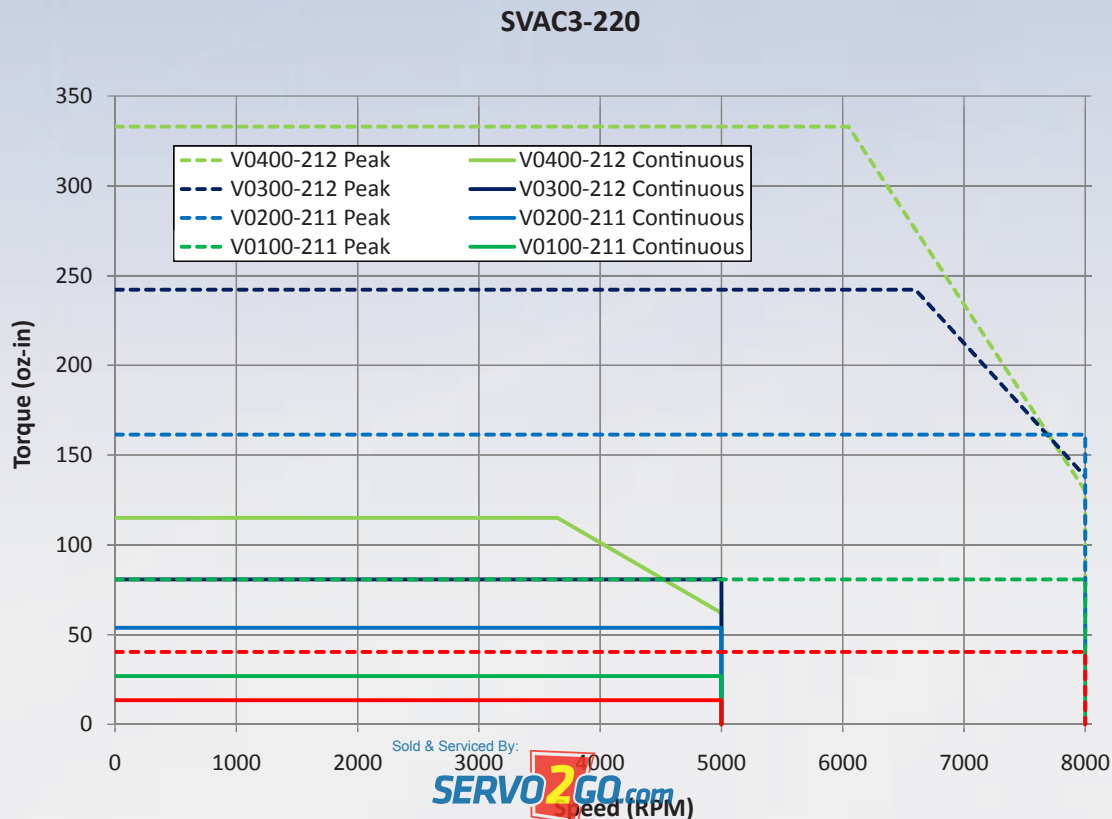Toll Free Fax: 877-378-0249
sales@servo2go.com
www.servo2go.com

Torque Curves for 120 Volt SVAC3

SVAC3-120

Legend:
- V0400-211 Peak
- V0400-211 Continuous
- V0300-211 Peak
- V0300-211 Continuous
- V0200-211 Peak
- V0200-211 Continuous
- V0100-211 Peak
- V0100-211 Continuous
- V0050-211 Peak
- V0050-211 Continuous

Torque (oz-in) vs Speed (RPM)

Torque Curves for 220 Volt SVAC3

SVAC3-220

Legend:
- V0400-212 Peak
- V0400-212 Continuous
- V0300-212 Peak
- V0300-212 Continuous
- V0200-211 Peak
- V0200-211 Continuous
- V0100-211 Peak
- V0100-211 Continuous

Torque (oz-in) vs Speed (RPM)

SVAC3 Technical Specifications

POWER AMPLIFIER:

AMPLIFIER TYPE	Digital MOSFET 16 kHz PWM
CURRENT CONTROL	4 quadrant d-q method
OUTPUT CURRENT	**SVAC3-120:** 0.5 to 3.5 A rms continuous, 0.5 to 7.4 A rms peak (2 seconds max, I2t limiting) **SVAC3-220:** 0.5 to 1.8 A rms continuous, 0.5 to 5.4 A rms peak (2 seconds max, I2t limiting)
INPUT POWER	**SVAC3-120:** 108-132 VAC, 50-60 Hz **SVAC3-220:** 108-242 VAC, 50-60 Hz"
PROTECTION	Over-voltage, under-voltage, over-temp, motor/wiring shorts (phase-to-phase, phase-to-ground)
REGENERATION	Built-in regeneration circuit, 10 watts max
AMBIENT TEMPERATURE	0 to 40 °C (32 to 104 °F), must be mounted to suitable heatsink with adequate ventilation
HUMIDITY	90% max, non-condensing
WEIGHT	22.4 oz

CONTROLLER:

NON-VOLATILE STORAGE	Drive configuration and Q program stored in non-volatile memory
INPUTS/OUTPUTS: S models	**X1, X2 inputs:** Optically isolated, differential, 5-24 VDC, minimum pulse width = 250 ns, maximum pulse frequency = 2 MHz. Function: step & direction, CW/CCW step, A/B quadrature encoder **X3 input:** Optically isolated, differential, 5-24 VDC. Function: motor enable **X4 input:** Optically isolated, differential, 5-24 VDC. Function: alarm reset *Note: any input that is not assigned to a dedicated function can be used for a home or registration sensor or for program branching* **Y1 output:** Optical Darlington, sinking or sourcing, 30 VDC max, 100 mA max. Function: brake relay **Y2 output:** Optical Darlington, sinking or sourcing, 30 VDC max, 100 mA max. Function: fault, motion or tach *Note: any output that is not assigned to a dedicated funtion is general purpose programmable* *Analog input: Single-ended. Range (resolution) is software selectable 0-5 VDC (10 bits), +/-5 or 0-10 VDC (11 bits), or +/-10 VDC (12 bits). Software configurable offset, deadband and filtering.*
INPUTS/OUTPUTS: Q and IP models	**X1, X2 inputs:** Optically isolated, differential, 5-24 VDC, minimum pulse width = 250 ns, maximum pulse frequency = 2 MHz. Function: step & direction, CW/CCW step, A/B quadrature encoder **X3 input:** Optically isolated, differential, 5-24 VDC. Function: motor enable **X4 input:** Optically isolated, differential, 5-24 VDC. Function: alarm reset **IN1, IN2 inputs:** Optically isolated, differential, 5-24 VDC. Function: jogging **IN3-IN6 inputs:** Optically isolated, sinking w/ shared common, 12-24 VDC **IN7, IN8 inputs:** Optically isolated, differential, 5-24 VDC. Function: CW and CCW limits *Note: any input that is not assigned to a dedicated function can be used for a home or registration sensor or for program branching.* **Y1 output:** Optical Darlington, sinking or sourcing, 30 VDC max, 100 mA max. Function: brake relay **Y2 output:** Optical Darlington, sinking or sourcing, 30 VDC max, 100 mA max. Function: fault **OUT1 output:** Optical Darlington, sinking, 30 VDC max, 100 mA max. Function: motion or tach **OUT2, OUT3 outputs:** Optical Darlington, sinking, 30 VDC max, 100 mA max **OUT4 output:** Optical Darlington, sinking or sourcing, 30 VDC max, 100 mA max *Note: any output that is not assigned to a dedicated funtion is general purpose programmable* **Analog input:** Single-ended. Range (resolution) is software selectable 0-5 VDC (10 bits), +/-5 or 0-10 VDC (11 bits), or +/-10 VDC (12 bits). Software configurable offset, deadband and filtering.
COMMUNICATION INTERFACE	**All models:** Ethernet 100BASE-T, supports TCP and UDP **IP models only:** EtherNet/IP industrial networking
ENCODER INTERFACE	Differential line receivers for incremental encoder (A/B quadrature) feedback, up to 2 MHz. 400 cpr min to 32,768 cpr max (1600 quadrature counts min to 131,072 quadrature counts max)
AGENCY APPROVALS	RoHS CE EN61800-3:2004, EN61800-5-1:2003 UL 508C

BLuAC5

1000W AC Powered Servo Drive

- **Operates from 100 to 240 VAC, 1 or 3 phase**
- **Digital PID servo control**
- **Velocity and acceleration feedforward minimize position error throughout every move**
- **Digital DQ current loop provides wide bandwidth, precise current control**
- **Sine commutation for smooth, quiet motion**
- **PID output filter + derivative filter eliminate system resonances**
- **Built-in regeneration (power dump) circuit**
- **Dynamic braking**
- **RS-232, RS-485**
- **Flexible control options**
- **Si and Q Programmable™ versions**

Control Options*

S
- Pulse & direction
- CW/CCW pulse
- A/B quadrature
- Velocity (oscillator) mode
- Analog +/-10V torque, velocity, position
- Host commands (SCL)
- SiNet hub compatible
- *Quick Tuner™* software for setup

Q
- Stand-alone operation
- *Q Programmer™* for complex motion
- *Quick Tuner™* software for setup
- Conditional processing
- Math functions
- Multi-tasking
- Register manipulation
- Encoder following
- Third-party HMI compatibility
- QE adds additional I/O

Si
- *Si Programmer™* point-and-click indexer software with built-in *Quick Tuner™*
- User-friendly GUI
- I/O and motion programming
- Operator interface available (MMI-01 or MMI-02)

*See back page for complete list of available model numbers.

**For more information, visit:
www.applied-motion.com**

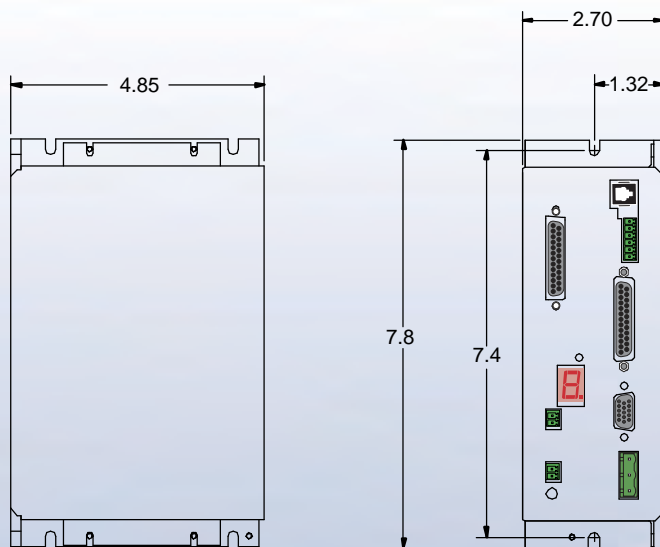## Communications

RS-232 port
Standard on all drives
- The RS-232 port is used for configuration, programming, and sending SCL and Q commands to a single drive.

RS-485 port
Standard on all drives
- The RS-485 port can be used to stream SCL and Q commands to one or more drives across a serial network.

BLuAC5 Dimensions

2.70

4.85

1.32

7.8

7.4

Dimensions in Inches
Not to scale

Inputs and Outputs

S

7 digital inputs
3 digital outputs
2 analog inputs

Q

7 digital inputs
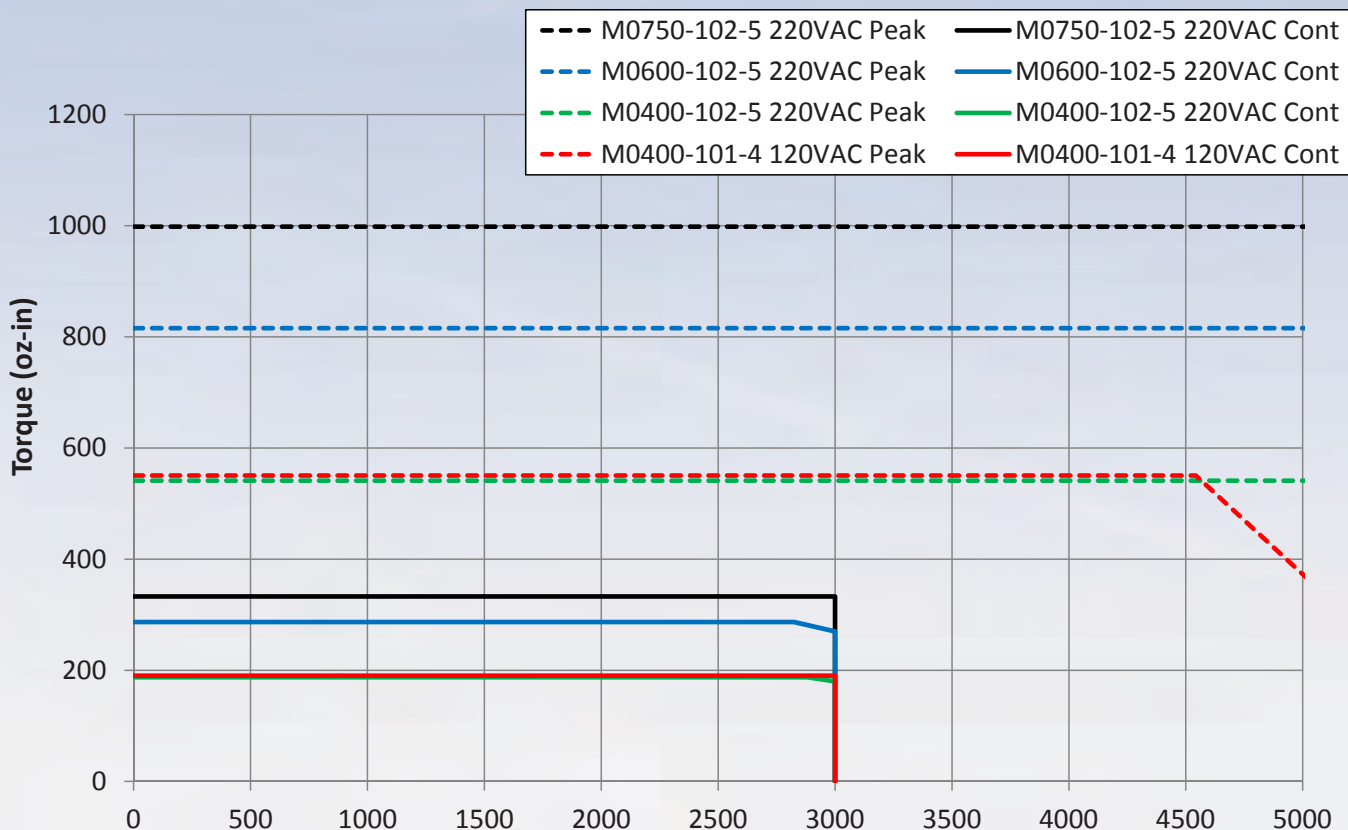3 digital outputs
2 analog inputs

QE

15 digital inputs
7 digital outputs
3 analog inputs

Si

15 digital inputs
7 digital outputs

Torque Curves for BLuAC5

Legend:
- M0750-102-5 220VAC Peak
- M0750-102-5 220VAC Cont
- M0600-102-5 220VAC Peak
- M0600-102-5 220VAC Cont
- M0400-102-5 220VAC Peak
- M0400-102-5 220VAC Cont
- M0400-101-4 120VAC Peak
- M0400-101-4 120VAC Cont

Torque (oz-in): 0, 200, 400, 600, 800, 1000, 1200

Speed (RPM): 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000

BLuAC5 Technical Specifications

POWER AMPLIFIER:

AMPLIFIER TYPE	3-phase sinusoidal PWM switching at 16 kHz
CURRENT CONTROL	4 quadrant d-q method
OUTPUT CURRENT	Up to 5 A rms continuous, up to 15 A rms peak (2 seconds max, I2t limiting)
INPUT POWER	90-260 VAC, 50/60 Hz, 1-phase or 3-phase
PROTECTION	Over-voltage (400 VDC on DC bus), under-voltage (100 VDC on DC bus), over-temp (75 °C), motor/wiring shorts (phase-to-phase, phase-to-ground), regeneration error (based on regeneration values input by user), encoder failure (differential encoders only), Hall sensor failure
REGENERATION	50 Watt internal shunt resistor, connector for external high-power shunt resistor
AMBIENT TEMPERATURE	0 to 40 °C (32 to 104 °F), must be mounted to suitable heatsink with adequate ventilation
HUMIDITY	90% max, non-condensing
WEIGHT	**S and Q models:** 35.1 oz **QE and Si models:** 44 oz

CONTROLLER:

NON-VOLATILE STORAGE	Drive configuration and programs stored in non-volatile memory
INPUTS/OUTPUTS: S and Q models	**X1, X2 inputs:** Optically isolated, differential, 5 VDC **X3-X7 inputs:** Optically isolated, single-ended w/ shared common, 12-24 VDC **Y1-Y3 outputs:** Optical Darlington, sinking w/ shared common, 30 VDC max, 100 mA max **Analog inputs:** Two single-ended inputs can be wired together as one differential input. Range is software selectable 0-5 VDC, +/-5, 0-10 VDC, or +/-10 VDC. Software configurable offset, deadband and filtering on differential input only
INPUTS/OUTPUTS: QE and Si models	**X1, X2 inputs:** Optically isolated, differential, 5 VDC **X3-X7 inputs:** Optically isolated, single-ended w/ shared common, 12-24 VDC **IN1-IN6 inputs:** Optically isolated, single-ended w/ shared common, 12-24 VDC **IN7, IN8 inputs:** Optically isolated, differential, 12-24 VDC **Y1-Y3 outputs:** Optical Darlington, sinking w/ shared common, 30 VDC max, 100 mA max **OUT1-OUT4 outputs:** Optical Darlington, sinking or sourcing, 30 VDC max, 100 mA max **Analog inputs:** Two single-ended inputs can be wired together as one differential input. Range is software selectable 0-5 VDC, +/-5, 0-10 VDC, or +/-10 VDC. Software configurable offset, deadband and filtering on differential input only. *Note: Si Programming does not support the analog input(s).*
COMMUNICATION INTERFACE	RS-232 for configuration, programming and serial communications to a single drive RS-485 for serial communications to one or more drives on a serial network
ENCODER INTERFACE	Differential line receivers for incremental encoder (A/B quadrature) feedback, up to 2 MHz. 50 cpr min to 8192 cpr max (200 quadrature counts min to 32,768 quadrature counts max)
AGENCY APPROVALS	RoHS CE

SV7

300W DC Powered Servo Drive

- **Operates from 24 to 80 VDC**
- **Digital PID servo control**
- **Velocity and acceleration feedforward minimize position error throughout every move**
- **Digital DQ current loop provides wide bandwidth, precise current control**
- **Sine commutation for smooth, quiet motion**
- **PID output filter + derivative filter eliminate system resonances**
- **Jerk filter provides jerk free "S curve" motion**
- **RS-232, RS-485, CANopen, Ethernet**
- **Flexible control options**
- **Si and Q Programmable™ versions**

Control Options*

S
- Pulse & direction
- CW/CCW pulse
- A/B quadrature
- Velocity (oscillator) mode
- Analog +/-10V torque, velocity, position
- Host commands (SCL)
- SiNet Hub compatible
- *Quick Tuner*™ software for setup

Q
- Stand-alone operation
- *Q Programmer*™ for complex motion
- *Quick Tuner*™ software for setup
- Conditional processing
- Math functions
- Multi-tasking
- Register manipulation
- Encoder following
- Third-party HMI compatibility

Si
- *Si Programmer*™ with built-in *Quick Tuner*™
- Point-and-click indexing software
- User-friendly GUI
- I/O and motion programming
- Operator interface available (MMI-01 or MMI-02)

C
- CANopen protocols DS301 and DSP402
- Profile Position, Profile Velocity, and Homing modes
- Up to 127 axes per channel
- Execute stored Q programs

IP
- EtherNet/IP
- Connects to industry's most popular PLC's
- Same functions as Q model

*See back page for complete list of available model numbers.

For more information go to www.applied-motion.com/SV

Communications

Ethernet option: SV7-Q-EE
- The Ethernet option board allows the SV7-Q-EE to be commanded and queried over standard 100Mbit Ethernet using the SCL and Q languages.

CANopen option: SV7-C-CE
- The CANopen option board used with the SV7-C-CE allows the drive to be connected to a CANopen network along with other CANopen drives. Drives can be controlled and interrogated over the network.

RS-485 option: SV7-Q-RE, SV7-S-RE
- The RS-485 option board adds the ability to stream SCL and Q commands to one or more drives on a serial network.

RS-232 port: standard on all but Ethernet drives
Example: SV7-S-AF
- The RS-232 port is used for configuration, programming, and serial communications with a single drive.

EtherNet/IP option: SV7-IP-EE
- Allows drives to be commanded and queried over EtherNet/IP industrial networks.

9

SV7 Dimensions

4.74

0.61

1.98

3.0

1.75

6X SLOT 0.16
WIDE, FULL R

0.663

5.0
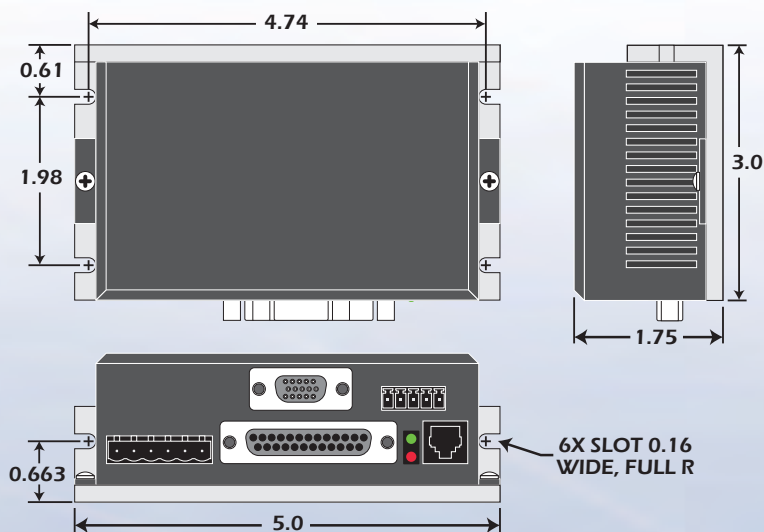
Dimensions in Inches
Not to scale

Inputs and Outputs

S

8 digital inputs
4 digital outputs
2 analog inputs

Q

8 digital inputs
4 digital outputs
2 analog inputs
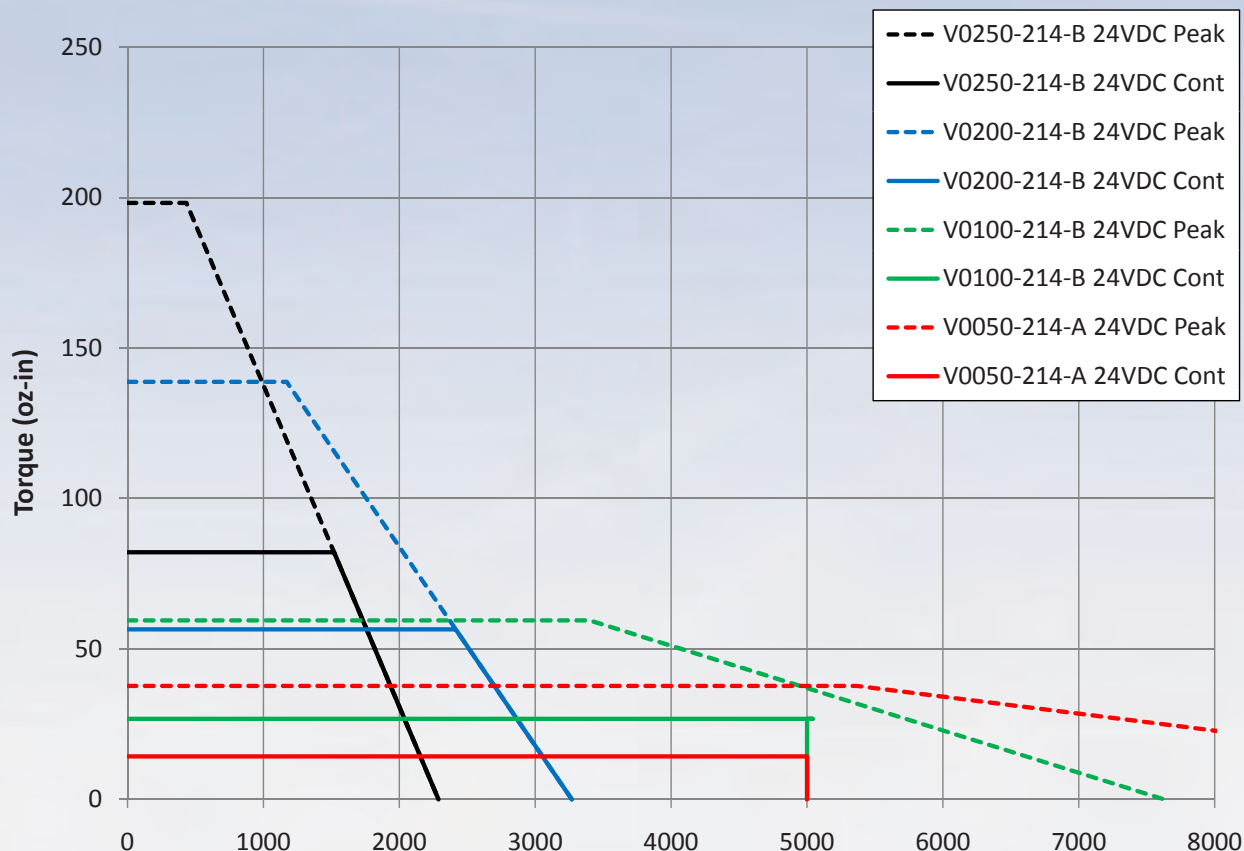
Si

8 digital inputs
4 digital outputs

C

8 digital inputs
4 digital outputs
2 analog inputs

IP

8 digital inputs
4 digital outputs
2 analog inputs

Torque Curves for *SV7* at 24 VDC

Legend:
- --- V0250-214-B 24VDC Peak
- —— V0250-214-B 24VDC Cont
- --- V0200-214-B 24VDC Peak
- —— V0200-214-B 24VDC Cont
- --- V0100-214-B 24VDC Peak
- —— V0100-214-B 24VDC Cont
- --- V0050-214-A 24VDC Peak
- —— V0050-214-A 24VDC Cont

Torque (oz-in)

Speed (RPM)

More curves available at www.applied-motion.com

Torque Curves for SV7 at 48 VDC

Legend:
- V0250-214-B 60VDC Peak
- V0250-214-B 60VDC Cont
- V0250-214-B 48VDC Peak
- V0250-214-B 48VDC Cont
- V0200-214-B 48VDC Peak
- V0200-214-B 48VDC Cont
- V0100-214-B 48VDC Peak
- V0100-214-B 48VDC Cont
- V0050-214-A 48VDC Peak
- V0050-214-A 48VDC Cont

Y-axis: Torque (oz-in) — 0, 50, 100, 150, 200, 250
X-axis: Speed (RPM) — 0, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000

More curves available at www.applied-motion.com
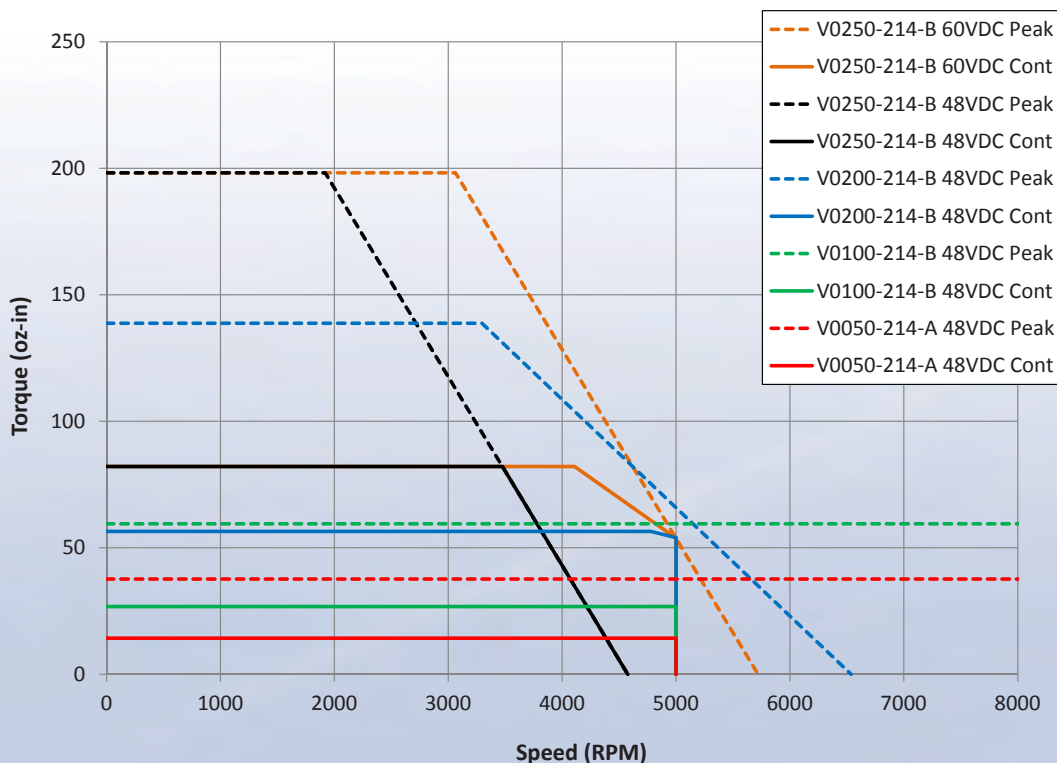
SV7 Technical Specifications

POWER AMPLIFIER: All Models

AMPLIFIER TYPE	Digital MOSFET 16 kHz PWM
CURRENT CONTROL	4 quadrant d-q method
OUTPUT CURRENT	0.5 to 7.0 A rms continuous, 0.5 to 14 A rms peak (2 seconds max, I2t limiting)
INPUT POWER	24-80 VDC (external power supply required)
PROTECTION	Over-voltage, under-voltage, over-temp, motor/wiring shorts (phase-to-phase, phase-to-ground)
REGENERATION	No internal regeneration circuit. RC-050 external regeneration clamp may be required for applications with high load inertia and/or rapid deceleration
AMBIENT TEMPERATURE	0 to 40 °C (32 to 104 °F), must be mounted to suitable heatsink with adequate ventilation
HUMIDITY	90% max, non-condensing
WEIGHT	10 oz

CONTROLLER: All Models

NON-VOLATILE STORAGE	Drive configuration and Q program stored in non-volatile memory
INPUTS/OUTPUTS	**X1, X2 inputs:** Optically isolated, differential, 5 VDC, minimum pulse width = 250 ns, maximum pulse frequency = 2 MHz. Function: step & direction, CW/CCW step, A/B quadrature encoder **X3 input:** Optically isolated, sinking or sourcing, 12-24 VDC. Function: motor enable **X4 input:** Optically isolated, sinking or sourcing, 12-24 VDC. Function: alarm reset **X5, X6 inputs:** Optically isolated, sinking or sourcing, 12-24 VDC. Function: CW and CCW jog inputs *Note: inputs X3-X6 have a shared common.* **X7, X8 inputs:** Optically isolated, differential, 12-24 VDC. Function: CW and CCW limits *Note: any input that is not assigned to a dedicated function can be used for a home or registration sensor or for program branching.*

CONTROLLER (CONT): **All Models**

| INPUTS/OUTPUTS (CONT)	**Y1 output:** Optical Darlington, NPN/sinking, 30 VDC max, 100 mA max. Function: brake relay **Y2 output:** Optical Darlington, NPN/sinking, 30 VDC max, 100 mA max. Function: motion or tach **Y3 output:** Optical Darlington, NPN/sinking, 30 VDC max, 100 mA max. Function: fault *Note: outputs Y1-Y3 have a shared common.* **Y4 output:** Optical Darlington, sinking or sourcing, 30 VDC max, 100 mA max *Note: any output that is not assigned to a dedicated funtion is general purpose programmable.* **Analog input:** Single-ended. Range (resolution) is software selectable 0-5 VDC (10 bits), +/-5 or 0-10 VDC (11 bits), or +/-10 VDC (12 bits). Software configurable offset, deadband and filtering.
COMMUNICATION INTERFACE	**SV7-x-Ax:** RS-232 for programming and serial communications **SV7-x-RE:** RS-232 for programming and serial communications, RS-485 for serial communications **SV7-Q-EE:** Ethernet for programming and serial communications **SV7-C-CE:** RS-232 for programming, CANopen for communications **SV7-IP-EE:** Ethernet for programming, EtherNet/IP for network communications"
ENCODER INTERFACE	Differential line receivers for incremental encoder (A/B quadrature) feedback, up to 2 MHz. 400 cp min to 32,768 cpr max (1600 quadrature counts min to 131,072 quadrature counts max)
AGENCY APPROVALS	RoHS CE EN61800-3:2004, EN61800-5-1:2003"

Software for All Drives
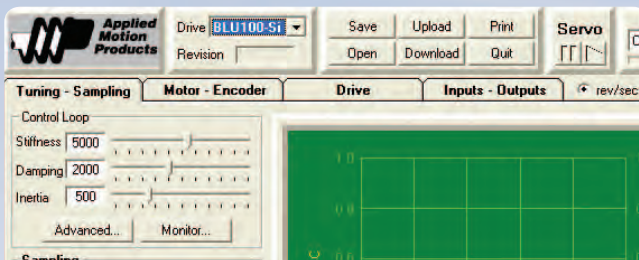
Quick Tuner™
Used for setup and configuration of the drive. For more information about *Quick Tuner™*, visit the Applied Motion Products website.
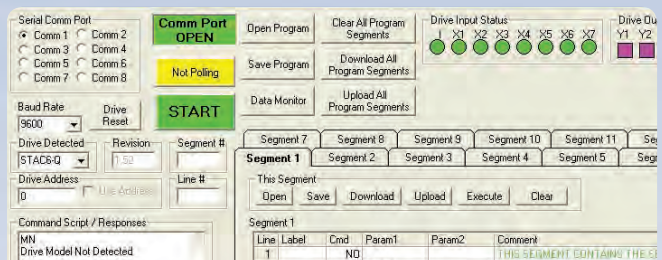
Q Programmer™
Q Programmer™ is used to create and edit stand-alone programs for Q version drives. These programs can include multi-tasking, math, register manipulation, encoder following, and more.
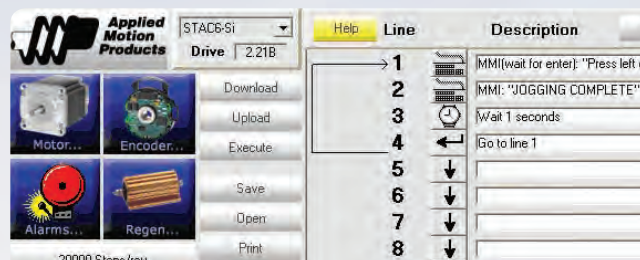
Si Programmer™
Intended for use in stand-alone applications, *Si Programmer™* provides a user friendly, point-and-click, graphical interface that doesn't require any previous programming experience. Currently available on SV7 and BLuAC5 servo drives only.

Servo Motor Data

M Series Motors:
- High torque density
- Metric frame sizes
- 2000 line (8000 count)incremental encoder

V Series Motors:
- Economical package
- NEMA frame sizes
- 2048 line (8192 count) incremental encoder

Part #	Supply Voltage	Frame Size	Rated Power (Watts)	Cont.| Peak Torque (in-lb)	Rated | Peak Speed (rpm)	Torque Constant (in-lb/A)	Voltage Constant (V/krpm)	Rotor Inertia (oz-in-sec^{-2})
M0100-103-3-000	24 VDC	40 mm	100	2.8 | 8.4	3000 | 5000	0.4	4.8	4.25E-04
M0100-103-4-000	24 VDC	60 mm	100	2.8 | 8.4	3000 | 5000	0.39	4.6	1.27E-03
V0050-214-A-000	48 VDC	NEMA 17	50	0.84 | 2.6	5000 | 8000	0.168	2.0	4.11E-04
V0100-214-B-000	48 VDC	NEMA 23	100	1.68 | 5.0	5000 | 8000	0.266	3.5	1.32E-03
V0200-214-B-000	48 VDC	NEMA 23	200	3.36 | 10	5000 | 5900	0.62	7.4	2.58E-03
V0250-214-B-000	48 VDC	NEMA 23	200	5.0 | 15	3350 | 4000	0.885	10.7	3.82E-03
M0200-104-4-000	48 VDC	60 mm	200	5.7 | 17	3000 | 5000	0.93	11	2.55E-03
M0400-105-4-000	60 VDC	60 mm	400	11 | 34	3000 | 5000	1.41	16.8	4.81E-03
V0050-211-A-000	120 VAC	NEMA 17	50	0.84 | 2.6	5000 | 8000	0.053	5.54	4.11E-04
V0100-211-B-000	120 VAC	NEMA 23	100	1.68 | 5.0	5000 | 8000	1.04	12.2	1.32E-03
M0100-101-3-000	120 VAC	40 mm	100	2.8 | 8.4	3000 | 5000	2.8	19.3	4.25E-04
M0100-101-4-000	120 VAC	60 mm	100	2.8 | 8.4	3000 | 5000	1.68	19.9	1.27E-03
V0200-211-B-000	120 VAC	NEMA 23	200	3.36 | 10	5000 | 8000	1.93	22.8	2.58E-03
V0300-211-B-000	120 VAC	NEMA 23	300	5.0 | 15	4860 | 6800	1.86	22.4	3.82E-03
M0200-101-4-000	120 VAC	60 mm	200	5.7 | 17	3000 | 5000	1.77	20.5	2.55E-03
V0400-211-C-000	120 VAC	NEMA 34	400	6.7 | 20	5000 | 8000	2.5	29	1.44E-02
M0400-101-4-000	120 VAC	60 mm	400	11 | 34	3000 | 5000	2.12	24.8	4.81E-03
V0300-212-B-000	220 VAC	NEMA 23	300	5.0 | 15	5000 | 8000	2.83	33.7	3.82E-03
M0200-102-4-000	220 VAC	60 mm	200	5.7 | 17	3000 | 5000	3.45	41	2.55E-03
V0400-212-C-000	220 VAC	NEMA 34	400	6.7 | 20	5000 | 8000	4.04	45.6	1.44E-02
M0400-102-5-000	220 VAC	80 mm	400	11 | 34	3000 | 5000	4.3	50.8	7.93E-03
M0750-102-5-000	220 VAC	80 mm	750	21 | 64	3000 | 5000	4.4	52.2	1.53E-02

Sold & Serviced By:

SERVO2GO.com

Toll Free Phone: 877-378-0240
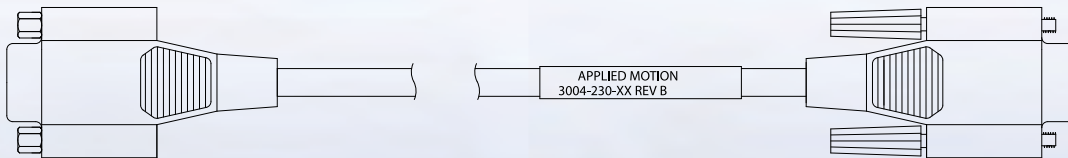Toll Free Fax: 877-378-0249
sales@servo2go.com
www.servo2go.com

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Servo Motor Extension Cables
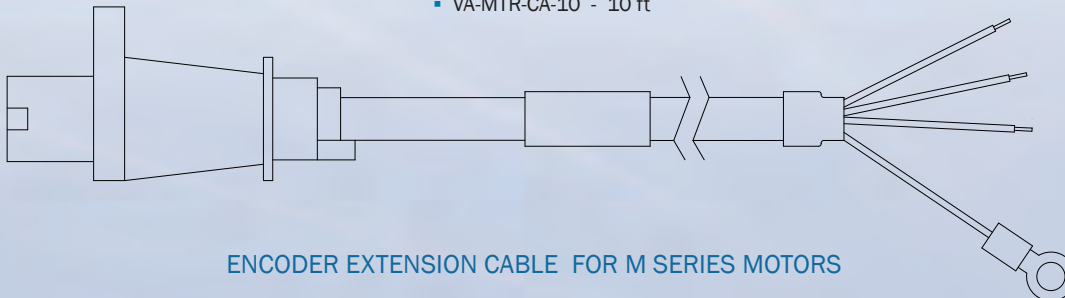
ENCODER EXTENSION CABLE FOR V SERIES MOTORS

- VA-ENC-CA-06 - 6 ft
- VA-ENC-CA-10 - 10 ft

APPLIED MOTION
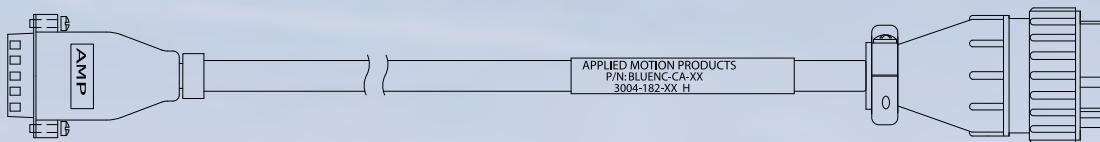3004-230-XX REV B

MOTOR EXTENSION CABLE FOR V SERIES MOTORS

- VA-MTR-CA-06 - 6 ft
- VA-MTR-CA-10 - 10 ft

ENCODER EXTENSION CABLE FOR M SERIES MOTORS

- BLUENC-CA-04 - 4 ft
- BLUENC-CA-10 - 10 ft
- BLUENC-CA-20 - 20 ft

APPLIED MOTION PRODUCTS
P/N: BLUENC-CA-XX
3004-182-XX H

MOTOR EXTENSION CABLE FOR M SERIES MOTORS
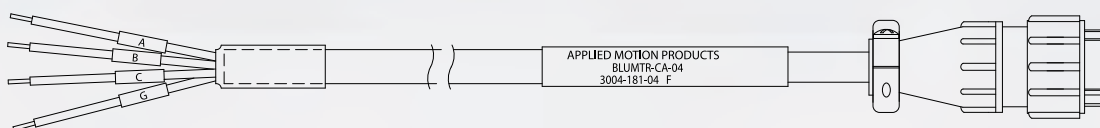### for use with BLuAC5 Drives

- BLUMTR-FA-04 - 4 ft
- BLUMTR-FA-10 - 10 ft
- BLUMTR-FA-20 - 20 ft

MOTOR EXTENSION CABLE FOR M SERIES MOTORS
for use with SV7 and SVAC3 Drives

- BLUMTR-CA-04 - 4 ft
- BLUMTR-CA-10 - 10 ft
- BLUMTR-CA-20 - 20 ft

APPLIED MOTION PRODUCTS
BLUMTR-CA-04
3004-181-04 F

Accessories

Power Supplies

Applied Motion offers two matched power supplies for use with the SV7 drives. A 24VDC 150W (part number: PS150A24) and a 48VDC 320W version (part number: PS320A48). These power supplies have current over load capability making them ideal for use with servo drives.

Break Out Boards: BOB-1 and BOB-2

BOB-1 is for use with all drives and expands the DB25F connector to screw terminals. BOB-2 is for use with the DB25M connector on the BLuAC5-Si and -QE. A 3 foot cable included with both models.

RC-050 Regeneration Clamp (for SV7)

The RC-050 regeneration clamp is for use where regeneration from the motor may be excessive for the power supply. In these cases, the RC-050 is connected between the drive and power supply and absorbs regenerated energy.

Braking resistor assembly - RA-100

For use with BLuAC5 dynamic braking and regeneration circuits.

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SVAC3-S-E120

- **Series** — SVAC Servo Series
- 3 = 3.5A cont, 7.4A peak, 120VAC
  1.8A cont, 5.4A peak, 220VAC
- **Control**
  S = Basic version
  Q = Q Programming
  IP = EtherNet/IP
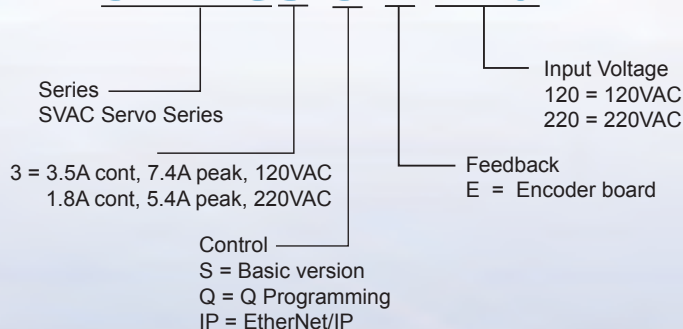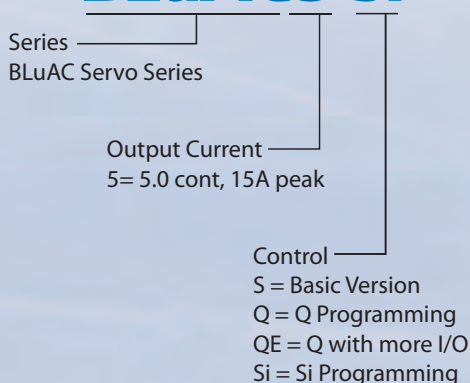- **Feedback**
  E = Encoder board
- **Input Voltage**
  120 = 120VAC
  220 = 220VAC

BLuAC5-Si

- **Series** — BLuAC Servo Series
- **Output Current** — 5 = 5.0 cont, 15A peak
- **Control**
  S = Basic Version
  Q = Q Programming
  QE = Q with more I/O
  Si = Si Programming

SV7-S-RE

- **Series** — SV Servo Series
- **Output Current** — 7 = 7.0 Cont, 14A Peak
- **Control**
  S = Basic version
  Q = Q Programming
  Si = Si Programming
  C = CANopen
  IP = EtherNet/IP
- **Feedback**
  E = Encoder board (standard)
  F = Motion Controller Feedback (MCF) board
- **Communications**
  A = RS-232 (standard)
  R = RS-485 (optional)
  C = CANopen (optional) (requires C control option)
  E = Ethernet (optional) (requires Q or IP control option)

Model Numbers	Q Programming	Si Programming	RS-232	RS-422/485	Ethernet	EtherNet/IP	CANopen	Encoder Output
SVAC3-S-E120					X			
SVAC3-S-E220					X			
SVAC3-Q-E120	X				X			
SVAC3-Q-E220	X				X			
SVAC3-IP-E120	X				X	X		
SVAC3-IP-E220	X				X	X		
BLuAC5-S			X	X				X
BLuAC5-Q	X		X	X				X
BLuAC5-QE	X		X	X				X
BLuAC5-Si		X	X	X				X
SV7-S-AE			X					
SV7-S-AF			X					X
SV7-S-RE			X	X				
SV7-Q-AE	X		X					
SV7-Q-AF	X		X					X
SV7-Q-RE	X		X	X				
SV7-Q-EE	X				X			
SV7-Si-AE		X	X					
SV7-Si-AF		X	X					X
SV7-C-CE			X				X	
SV7-IP-EE	X				X	X		

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