

SV Multi-Axis Specifications

	Parameter	Value																		
Performance	Resolver Accuracy Resolution	±10 arc min 2,048 or 4,096 post quadrature counts per rev																		
Output Power	Voltage Frequency Current Continuous (max rms per phase) Peak (max rms per phase) Power Dissipation	<table border="1"> <thead> <tr> <th>SV200M</th> <th>SV500M</th> <th>SV1500M</th> </tr> </thead> <tbody> <tr> <td colspan="3">650VDC from power supply module; see module specs for additional info</td> </tr> <tr> <td>10 kHz</td> <td>10 kHz</td> <td>5 kHz</td> </tr> <tr> <td>6.5A</td> <td>11.5A</td> <td>25A</td> </tr> <tr> <td>8.5A</td> <td>17A</td> <td>50A</td> </tr> <tr> <td>140 W</td> <td>250 W</td> <td>250 W</td> </tr> </tbody> </table>	SV200M	SV500M	SV1500M	650VDC from power supply module; see module specs for additional info			10 kHz	10 kHz	5 kHz	6.5A	11.5A	25A	8.5A	17A	50A	140 W	250 W	250 W
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Protection	Short Circuit Brownout Overvoltage Overtemperature I ² t Safety Isolation	Phase to phase, Phase to earth Below 80VDC 700VDC (Power dump capability) Motor 170°C (330°F); Drive 85°C (185°F) Error generated if peak current >3 seconds VDE0160																		
Inputs	Command Programmable • Enable, Brake, Auto Offset, • Mode Select, Limit ±15V Reference	±10V 20K ohms input impedance 24V nom. @ 10 mA high = 14-32V, low <7.5V Internal clamp w/ zener diode @ 6.8V, fully optically isolated, sink or source 8 mA available																		
Outputs Digital	Encoder Programmable: Fault, Error	5V line driver (RS485) output, TTL compatible, source 60 mA max, requires external +5VDC supply @ 100 mA User selectable 2,048 or 4,096 ppr PNP type, sourcing only, rated for 24V @ 100 mA fully optically isolated, short circuit protected																		
Outputs Analog	Ready Contact Output Velocity (X8, pin 10) • (X8, pin 11) Motor Voltage (X8, pin 12) Current Monitor	125V, 500 mA, 30W maximums Absolute: 8V = 6,000 rpm Normalized: +10V = max speed 0.7-10V = 70-1000VDC 1V = 1.2 A for SV200; 1V = 2.4 A for SV500; 1V = 7.0 A for SV1500																		
Physical	Connections Drive-to-Servo Controller • Inputs/Outputs • RS232 • Encoder Output • Test Points • Fan • Drive-to-Motor • Resolver-to-Drive • Power	16 pin screw terminal, removable 16 pin screw terminal, removable 9 pin "D" type 15 pin screw terminal, removable 7 pin screw terminal, removable 2 pin screw terminal, removable 7 pin screw terminal 15 pin "D" type 6 pin screw terminal																		
Environment	Drive temperature ambient Maximum heat sink temp Motor temperature ambient Maximum motor case temp Humidity Storage	0-45° C (32-113° F) 85° C (185° F) 0-40° C (32-104° F) 125° C (257° F) 0-95% non-condensing -30-85° C (-22-185° F)																		
Tuning	Torque Mode Velocity Mode	Two bandwidth selections Offset, stiffness, damping, torque limit, bandwidth selection, frequency compensation																		
Diagnostics	LEDs	Ready and Error LEDs 3 digit, 7 segment LED display will indicate 23 error conditions and 31 status messages																		

Drives & Drive/Controllers

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