






Servo Drive Product Matrix

Drive Family	Digitax ST <i>p. 98</i>	Epsilon EP <i>p. 122</i>																														
																																
Motors Controlled	Servo motors, Linear Motors, Linear Actuators, Gearmotors	Servo motors, Linear Motors, Linear Actuators, Gearmotors																														
Control Modes	Analog Velocity, Analog Torque, Digital Velocity Preset, Indexing Pulse/Pulse, Pulse/Direction, and Pulse/Quadrature following. Some models have programmable modes.	Analog Velocity, Analog Torque, Digital Velocity Preset, Summation of A/D Velocity, Pulse/Pulse, Pulse/Direction, and Pulse/Quadrature. Indexing and Programmable Positioning, Analog Positioning - Position Tracker™																														
Continuous Torque	Up to 109 lb-in	Up to 200 lb-in																														
AC Voltage 50/60Hz ± 10%	200-240V ±10% 1Ø 200-240V ±10% 3Ø 380-480V ±10% 3Ø	90 to 264 VAC 1Ø, 208 to 240 VAC 3Ø, Epsilon EP 216 only																														
Motor/Position Feedback	Universal Encoder Port supports 14 feedback devices (including ABS, ENC) Optional Solution Modules for Resolver, Second encoder, and Universal encoder support with simulated encoder output	Incremental Encoders																														
Input/Output	<table border="0" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Input</th> <th>Output</th> </tr> </thead> <tbody> <tr> <td>Digital</td> <td>3</td> <td>3*</td> </tr> <tr> <td>Analog</td> <td>3</td> <td>2</td> </tr> <tr> <td>Relay</td> <td></td> <td>1</td> </tr> </tbody> </table> <p style="text-align: center;"><i>*Selectable input or output</i></p>		Input	Output	Digital	3	3*	Analog	3	2	Relay		1	<table border="0" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Input</th> <th>Output</th> </tr> </thead> <tbody> <tr> <td>Indexer, Programmable: Digital</td> <td>16</td> <td>8</td> </tr> <tr> <td>Base: Digital</td> <td>4</td> <td>3</td> </tr> <tr> <td>Analog</td> <td>1</td> <td>2</td> </tr> <tr> <td>Pulse Single-Ended</td> <td>1</td> <td></td> </tr> <tr> <td>Pulse Dif.</td> <td>1</td> <td>1</td> </tr> </tbody> </table>		Input	Output	Indexer, Programmable: Digital	16	8	Base: Digital	4	3	Analog	1	2	Pulse Single-Ended	1		Pulse Dif.	1	1
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Analog	1	2																														
Pulse Single-Ended	1																															
Pulse Dif.	1	1																														
Input/Output options	Extended I/O via a wide range of SM I/O modules up to 32 I/O points	Via on board MODBUS Master																														
Communication	MODBUS RTU standard Optional Solution Modules for EtherCAT, Profibus DP, DeviceNet, CAN, CANopen, Interbus-S, CTSync, CTNet, EtherNet/IP, and SERCOS	MODBUS RTU Standard all models EP-I: Optional DeviceNet EP-P: Modbus TCP/IP & EtherNet/IP standard Optional: Profibus DP, DeviceNet																														
Configuration & Programming	CTSoft, SyPTLite, SyPTPro (IEC-61131-3), PowerTools Pro for SM-EZMotion	PowerTools Pro																														
Application Co-processor	P - Programming - Integrated standard Z - EZMotion - Integrated standard	N/A																														
Approvals	UL, CE, C-Tick, RoHS, ISO14001, ISO9001:2000	UL, CUL, RoHS Option, CE																														

Drive Family	Unidrive SP p. 149 	EN p. 176 	MDS p. 191 																																													
Motors Controlled	Servo motors, Linear Motors, Linear Actuators, Gearmotors, Vector Motors	Servo motors, Linear Motors, Linear Actuators, Gearmotors	Servo motors, Linear Motors, Linear Actuators, Gearmotors																																													
Control Modes	Analog Velocity, Analog Torque, Digital Velocity Preset, Summation of A/D Velocity, and with Second Encoder: Pulse/Pulse, Pulse/Direction, and Pulse/Quadrature	Analog Velocity, Analog Torque, Digital Velocity Preset, Summation of A/D Velocity, and Pulse/Pulse, Pulse/Direction, and Pulse/Quadrature	Analog Velocity, Analog Torque, Digital Velocity Preset, Summation of A/D Velocity, and Pulse/Pulse, Pulse/Direction, and Pulse/Quadrature																																													
Continuous Torque	Up to 748 lb-in (brushless) Up to 4,500 lb-in (vector)	Up to 132 lb-in	Up to 748 lb-in																																													
AC Voltage 50/60Hz ± 10%	200-240V ±10% 1Ø & 3Ø 380-480V ±10% 3Ø 575-690V ±10% 3Ø	90 to 264 VAC 1Ø & 3Ø	187 to 528 VAC 3Ø																																													
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Application Co-processor	SM Application Plus SM Application Lite V2 SM EZMotion Servo Control	FM-modules for Indexing Programmable Positioning	FM-modules for Indexing Programmable Positioning																																													
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