




AC Drives Product Matrix

Drive Family	Commander SX p.14 	Commander SK p.24 																																								
Control Technology	Open Loop Vector, V/Hz, Closed Loop Vector	Open Loop Vector, V/Hz																																								
Power	0.5 hp to 10 hp	0.33 hp to 200 hp																																								
AC Voltage Range ± 10%, 48/65Hz hp (ND=Normal Duty, HD=Heavy Duty)	ND/HD 200-240V 3Ø 3 hp 380-480V 3Ø 5 hp	<table border="0"> <tr> <td></td> <td>ND</td> <td>HD</td> </tr> <tr> <td>100-120V 1Ø</td> <td>1.5 hp</td> <td>1.5 hp</td> </tr> <tr> <td>200-240V 1Ø</td> <td>3 hp</td> <td>3 hp</td> </tr> <tr> <td>200-240V 3Ø</td> <td>40 hp</td> <td>30 hp</td> </tr> <tr> <td>380-480V 3Ø</td> <td>200 hp</td> <td>150 hp</td> </tr> <tr> <td>500-575V 3Ø</td> <td>150 hp</td> <td>125 hp</td> </tr> <tr> <td>500-690V 3Ø</td> <td>175 hp</td> <td>150 hp</td> </tr> </table>		ND	HD	100-120V 1Ø	1.5 hp	1.5 hp	200-240V 1Ø	3 hp	3 hp	200-240V 3Ø	40 hp	30 hp	380-480V 3Ø	200 hp	150 hp	500-575V 3Ø	150 hp	125 hp	500-690V 3Ø	175 hp	150 hp																			
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Motor Feedback	Optional PX-Encoder module for closed loop motor control	N/A																																								
Input/Output	<table border="0"> <thead> <tr> <th></th> <th>IN</th> <th>I/O</th> <th>OUT</th> </tr> </thead> <tbody> <tr> <td>Analog/Digital</td> <td>2</td> <td>1*</td> <td></td> </tr> <tr> <td>Digital</td> <td>3</td> <td>1</td> <td></td> </tr> <tr> <td>Relay</td> <td></td> <td></td> <td>1</td> </tr> </tbody> </table> <p>*Analog I/O can also be configured as a digital input</p>		IN	I/O	OUT	Analog/Digital	2	1*		Digital	3	1		Relay			1	<table border="0"> <thead> <tr> <th></th> <th>IN</th> <th>I/O</th> <th>OUT</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td>1</td> <td></td> <td>1</td> </tr> <tr> <td>Analog/Digital</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>Digital</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>Digital/Pulse</td> <td>1</td> <td>1*</td> <td></td> </tr> <tr> <td>Relay</td> <td></td> <td></td> <td>1</td> </tr> </tbody> </table> <p>*B3 - Digital I/O or Pulse output only</p>		IN	I/O	OUT	Analog	1		1	Analog/Digital	1			Digital	3			Digital/Pulse	1	1*		Relay			1
	IN	I/O	OUT																																							
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Input/Output Options	PX module for Motor Brake Control	Solution Modules (SM) for: Extended I/O, Real-Time Clock I/O, Double-Insulated I/O, 120V I/O, 24V I/O, 32 point I/O, Bi-Polar Analog input																																								
Communication	MODBUS RTU, RS485 Standard	MODBUS RTU, RS485 Standard Optional Solution Modules for: PROFIBUS DP, DeviceNet, CANopen, INTERBUS-S, Ethernet, EtherCAT																																								
Configuration Software	SXSoft	CTSoft																																								
Parameter Storage	XPressKey	SmartStick																																								
PLC	N/A	LogicStick																																								
Application Software	N/A	SyPT Lite IEC61131-3 ladder and function block programming																																								
Pre-Programmed Software Solutions	N/A	Simplex Pump Control																																								
Power Accessories	On Board and Optional Filter, Braking Resistors	On Board and Optional Filter, Braking Resistors, Line/Load Reactors																																								
Approvals	UL, CUL, CE, C-Tick, ISO14001, ISO9001:2000	UL, CUL, CE, C-Tick, ISO14001, ISO9001:2000																																								

Drive Family	Unidrive SP <i>p.52</i> 		
Control Technology	V/Hz, Open Loop Vector, Rotor Flux Control, Closed Loop Vector, Servo, Regenerative		
Power	0.5 hp to 2900 hp		
AC Voltage Range ± 10%, 48/65Hz hp (ND=Normal Duty, HD=Heavy Duty)		ND	HD
	200-240V 3Ø	1400 hp	1200 hp
	380-480V 3Ø	2800 hp	2400 hp
	575V 3Ø	2000 hp	1750 hp
	690V 3Ø	2250 hp	2000 hp
Motor Feedback	Universal Encoder Port supports: 14 feedback devices as standard Optional Solution Modules for: Resolver, Second incremental encoder, Universal encoder support with simulated encoder output		
Input/Output		IN	I/O
	Analog	3	2
	Digital	4	3
	Relay		1
Input/Output Options	Solution Modules (SM) for: Extended I/O, Real-Time Clock I/O, Double-Insulated I/O, 120V I/O, 24V I/O, 32 point I/O, Remote I/O Option		
Communication	MODBUS RTU, RS485 Standard, or ANSI Optional Solution Modules for: PROFIBUS DP, DeviceNet, CANopen, INTERBUS-S, Ethernet, EtherCAT, CAN, SERCOS, CNet, CTSync		
Configuration Software	CTSoft		
Parameter Storage	SmartCard		
Application Co-processor	Standard plus - Solution Modules for: Scalable PLC functionality + Motion Control		
Application Software	SyPT Lite and SyPT Pro IEC61131-3 ladder and function block programming		
Pre-Programmed Software Solutions	Consult Factory		
Power Accessories	On Board and Optional Filter, Braking Resistors, Line/Load Reactors		
Approvals	UL, CUL, CE, C-Tick, ISO14001, ISO9001:2000		