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Compax3 S0XX V2 Specifications

Specifications	S025 V2	S063 V2	S100 V2	S150 V2
Drive Input Power				
Voltage	80-253 VAC	80-253 VAC	80-253 VAC	80-253 VAC
Phase	1Ø	1Ø	3Ø	3Ø
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
24 VDC Logic Power (Required)	24 VDC ±15%	24 VDC ±15%	24 VDC ±15%	24 VDC ±15%
Drive Output Power				
PWM	16/32 kHz (selectable)	16/32 kHz (selectable)	16/32 kHz (selectable)	8/16/32 kHz (selectable)
Continuous Current (RMS)	2.5 Amps	6.3 Amps	10 Amps	15 Amps
Peak Current (RMS)	5 Amps	12.6 Amps	20 Amps	30 Amps
Commutation	Sinusoidal	Sinusoidal	Sinusoidal	Sinusoidal

Performance	
Torque Loop	62.5 micro seconds
Velocity Loop	125 micro seconds
Position Loop	125 micro seconds
Command Inputs (T10 only)	
Velocity and Torque Mode	14 bit, ±10 VDC Analog
Position Mode	Step & Direction; 5V or 24 V level (300 kHz input frequency); differential signal
Onboard Digital Inputs	
Type	Sinking type, 24 V nom. @ 10 mA, high = 9-32 V, low <8 V
Functions	
Ixx T10 (4 dedicated)	Drive stage enable, control input enable, reset, motor brake open/close
Ixx T11 (8 dedicated)	Motion interrupt, Start, Drive Stage enable + 5 motion profile select inputs (or 4 inputs with a home input)
Ixx T30 (8 programmable*)	User definable via IEC61131-3 programming environment
Ixx T40 (8 programmable*)	User definable via IEC61131-3 programming environment
Analog Inputs (T11, T30, T40)	Two (dedicated); 14 bit
Onboard Digital Outputs	
Type	Sourcing type, rated for 24 V @ 100 mA, short-circuit protected
Functions	
Ixx T10 (4 dedicated)	No fault, drive enabled, in position window, at zero point
Ixx T11 (4 dedicated)	No fault, position reached, power stage active, at zero point
Ixx T30 (4 programmable*)	User definable via IEC61131-3 programming environment
Ixx T40 (4 programmable*)	User definable via IEC61131-3 programming environment
Encoder	Programmable up to 16,384 ppr (pre-quadrature)
Relay	Normally closed, dry contact (switching current: 10-300 mA, switching voltage [AC/DC]: 100 mV-60 V)
Analog Outputs (T11, T30, T40)	Two (dedicated); 8 bit; software configurable as monitor outputs
Communications	
Type	RS232 (3-wire) on RS485 (2- or 4-wire); 8-bit word length, 1 stop bit, no parity
Baud Rate	Fixed at 115.8 Kbaud for RS232; adjustable for RS485
Multi-drop (RS485)	Up to 255 nodes
Profibus**	DPV0 supported; selectable Baud rate, 12 Mbd maximum transmission speed
CANopen**	DCiA, DS102 supported; selectable Baud rate, 1 Mbd maximum transmission speed
Environmental	
Temperature	Still air: 33-113°F (0-45°C); moving air: 33-122°F (0-50°C)
Humidity	0-75%, non-condensing
IP Class	IP 20; IP 54 option available
Protection	
Short Circuit	Phase-to-phase, phase-to-ground
Brownout	Below 70 VDC
Over Voltage	Will shut down when power dissipation capacity is exceeded
Over Temperature	Motor 330°F (170°C), Drive 221°F (105°C)
I^2t	Error generated if peak current > 3 seconds
Safety Isolation	VDE0160
Standards	UL, cUL, CE (EMC), CE (LVD)
Internal Regeneration Capacities/Storable Energy	Compax3 S025 V2: 560 µF / 15Ws Compax3 S063 V2: 1120 µF / 30Ws Compax3 S100 V2: 780 µF / 21Ws Compax3 S150 V2: 1,170 µF / 31Ws

* 12 additional I/O points available as an option
** Applicable only to models supporting this option

Parker Automation
Parker Hannifin Corporation
Electromechanical Automation Division
parkermotion.com

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Compax3 SXXX V4 Specifications

Specifications	S038 V4	S075 V4	S150 V4	S300 V4
Drive Input Power				
Voltage	80-525 VAC	80-525 VAC	80-525 VAC	80-525 VAC
Phase	3Ø	3Ø	3Ø	3Ø
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
24 VDC Logic Power (Required)	24 VDC ±15%	24 VDC ±15%	24 VDC ±15%	24 VDC ±15%
Drive Output Power				
PWM	16/32 kHz (selectable)	16/32 kHz (selectable)	8/16/32 kHz (selectable)	8/16/32 kHz (selectable)
Continuous Current (RMS)	3.8 Amps	7.5 Amps	15 Amps	30 Amps
Peak Current (RMS)	7.5 Amps	15 Amps	30 Amps	60 Amps
Commutation	Sinusoidal	Sinusoidal	Sinusoidal	Sinusoidal

Performance	
Torque Loop	62.5 micro seconds
Velocity Loop	125 micro seconds
Position Loop	125 micro seconds
Command Inputs (T10 only)	
Velocity and Torque Mode	14 bit, ±10 VDC Analog
Position Mode	Step & Direction; 5V or 24 V level (300 kHz input frequency); differential signal
Onboard Digital Inputs	
Type	Sinking type, 24 V nom. @ 10 mA, high = 9-32 V, low <8 V
Functions	
Ixx T10 (4 dedicated)	Drive stage enable, control input enable, reset, motor brake open/close
Ixx T11 (8 dedicated)	Motion interrupt, Start, Drive Stage enable + 5 motion profile select inputs (or 4 inputs with a home input)
Ixx T30 (8 programmable*)	User definable via IEC61131-3 programming environment
Ixx T40 (8 programmable*)	User definable via IEC61131-3 programming environment
Analog Inputs (T11, T30, T40)	Two (dedicated); 14 bit
Onboard Digital Outputs	
Type	Sourcing type, rated for 24 V @ 100 mA, short-circuit protected
Functions	
Ixx T10 (4 dedicated)	No fault, drive enabled, in position window, at zero point
Ixx T11 (4 dedicated)	No fault, position reached, power stage active, at zero point
Ixx T30 (4 programmable*)	User definable via IEC61131-3 programming environment
Ixx T40 (4 programmable*)	User definable via IEC61131-3 programming environment
Encoder	Programmable up to 16,384 ppr (pre-quadrature)
Relay	Normally closed, dry contact (switching current: 10-300 mA, switching voltage [AC/DC]: 100 mV-60 V)
Analog Outputs (T11, T30, T40)	Two (dedicated); 8 bit; software configurable as monitor outputs
Communications	
Type	RS232 (3-wire) on RS485 (2- or 4-wire); 8-bit word length, 1 stop bit, no parity
Baud Rate	Fixed at 115.8 Kbaud for RS232; adjustable for RS485
Multi-drop (RS485)	Up to 255 nodes
Profibus**	DPV0 supported; selectable Baud rate, 12 Mbd maximum transmission speed
CANopen**	DCiA, DS102 supported; selectable Baud rate, 1 Mbd maximum transmission speed
Environmental	
Temperature	Still air: 33-113°F (0-45°C); moving air: 33-122°F (0-50°C)
Humidity	0-75%, non-condensing
IP Class	IP 20; IP 54 option available
Protection	
Short Circuit	Phase-to-phase, phase-to-ground
Brownout	Below 70 VDC
Over Voltage	Will shut down when power dissipation capacity is exceeded
Over Temperature	Motor 330°F (170°C), Drive 221°F (105°C)
I^2t	Error generated if peak current > 3 seconds
Safety Isolation	VDE0160
Standards	UL, cUL, CE (EMC), CE (LVD)
Internal Regeneration Capacities/Storable Energy	Compax3 S038 V4: 235 µF / 37Ws Compax3 S075 V4: 470 µF / 75Ws Compax3 S150 V4: 690 µF / 110Ws Compax3 S300 V4: 1,100 µF / 176Ws

* 12 additional I/O points available as an option
** Applicable only to models supporting this option

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