

COMPAX Single-Axis Specifications

	Parameter	Value		
Performance	Resolver Accuracy Resolution	±10 arc min 2,048 or 4,096 post quadrature counts per rev		
Output Power		<b>COMPAX2500S</b>	<b>COMPAX4500S</b>	<b>COMPAX8500S</b>
	Voltage	325VDC	650VDC	650VDC
	Frequency Current	10 kHz	10 kHz	10 kHz
	Current			
	Cont. (max rms per phase)	6.3A	6.5A	12.5A
Peak (max rms per phase)	12.6A	13.0A	25.0A	
	Power Dissipation	80 W	170 W	170 W
Input Power	Voltage—AC Supply	230VAC, 1- or 3-Phase	460VAC, 3-Phase	460VAC, 3-Phase
	Frequency	50/60 Hz	50/60 Hz	50/60 Hz
	AC Supply Tolerance	+10%, -15%	+10%, -15%	+10%, -15%
	Voltage (Control)	+24VDC ±10%, ripple <1V p-p	(+24V supply included)	(+24V supply included)
	Fuses Input—AC Supply	10 amp	10 amp	16 amp
Protection	Short Circuit	Phase to phase, Phase to earth		
	Brownout	Below 80VDC		
	Overvoltage	Will shut down when power dump capacity is exceeded		
	Overtemperature	Motor 170°C (330°F); Drive 85°C (185°F)		
	I <sup>2</sup> t	Error generated if peak current >3 seconds		
	Safety Isolation	VDE0160		
Inputs	Programmable	(NPN type, sinking only) 24V nom. @ 10 mA high = 14-32V, low <7.5V		
	Enable, Brake, Auto Offset, Mode Select, Limit ±15V Reference	Internal clamp w/ zener diode @ 6.8V, fully optically isolated, sink or source Available		
Outputs Digital	Encoder	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		
	Programmable: Fault, Error Ready Contact Output	PNP type, sourcing only, rated for 24V @ 100 mA fully optically isolated, short circuit protected 125V, 500 mA, 30W maximums		
Outputs Analog	Velocity (X8, pin 10) (X8, pin 11)	Absolute: 8V = 6,000 rpm Normalized: +10V = max speed		
	Motor Voltage (X8, pin 12)	0.7-10V = 70-1000VDC		
	Current Monitor	1V = 1.2 A for COMPAX 2500S, COMPAX 4500S; 1V = 2.4A for COMPAX 8500S		
Physical	<b>Connections</b>			
	Inputs/Outputs	16-pin screw terminal, removable		
	Resolver	15-pin D connector		
	Encoder Output	15-pin D connector		
	RS-232, RS-485	9-pin D connector		
	Motor and brake	8-pin screw terminal, removable		
	AC supply	4-pin screw terminal, removable		
	Control voltage	2-pin screw terminal, removable		
HEDA, Absolute encoder	9-pin D connector			
Environment	Drive temperature ambient	0-45° C (32-113° F)		
	Maximum heat sink temp	85° C (185° F)		
	Motor temperature ambient	0-40° C (32-104° F)		
	Maximum motor case temp	125° C (257° F)		
	Humidity	0-95% non-condensing		
Storage	-30-85° C (-22-185° F)			
Tuning	Position Mode	Stiffness, damping, speed feedforward, accel feedforward, current feedforward		
Diagnostics	LEDs	Ready and error LEDs 3 digit, 7 segment LED display will indicate 23 error conditions and 31 status messages		

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