

COMPAX -S (Standalone) Specifications

Parameter	Value																																			
Performance	Resolver Accuracy ±10 arc min Resolution 2,048 or 4,096 post quadrature counts per rev																																			
Output Power	<table border="1"> <thead> <tr> <th></th> <th>COMPAX1000SL</th> <th>COMPAX2500S</th> <th>COMPAX4500S</th> <th>COMPAX8500S</th> </tr> </thead> <tbody> <tr> <td>Voltage</td> <td>170VDC or 325VDC</td> <td>325VDC</td> <td>650VDC</td> <td>650VDC</td> </tr> <tr> <td>Frequency Current</td> <td>10 kHz</td> <td>10 kHz</td> <td>10 kHz</td> <td>10 kHz</td> </tr> <tr> <td>Current</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> Cont. (max rms per phase)</td> <td>2.5A</td> <td>6.3A</td> <td>6.5A</td> <td>12.5A</td> </tr> <tr> <td> Peak (max rms per phase)</td> <td>5.0A</td> <td>12.6A</td> <td>13.0A</td> <td>25.0A</td> </tr> <tr> <td>Power Dissipation</td> <td>50W</td> <td>80 W</td> <td>170 W</td> <td>170 W</td> </tr> </tbody> </table>		COMPAX1000SL	COMPAX2500S	COMPAX4500S	COMPAX8500S	Voltage	170VDC or 325VDC	325VDC	650VDC	650VDC	Frequency Current	10 kHz	10 kHz	10 kHz	10 kHz	Current					Cont. (max rms per phase)	2.5A	6.3A	6.5A	12.5A	Peak (max rms per phase)	5.0A	12.6A	13.0A	25.0A	Power Dissipation	50W	80 W	170 W	170 W
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Input Power	Max Input Voltage, AC Supply 120-230VAC, 1-Phase Frequency 50/60 Hz AC Supply Tolerance +10%, -15% Voltage (Control) +24VDC ±10%, ripple <1V p-p Fuses Input, AC Supply 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 ² t Error generated if peak current > 3 seconds Safety Isolation VDE0160																																			
Inputs	Programmable Enable, Brake, Auto Offset, Mode Select, Limit (NPN type, sinking only) 24V nom. @ 10 mA high = 14-32V, low <7.5V Internal clamp w/ zener diode @ 6.8V, fully optically isolated, sink or source																																			
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 maximum																																			
Outputs Analog	Velocity Absolute: 8V = 6,000 rpm Normalized: +10V = max speed Motor Voltage 0.7-10V = 70-1000VDC Current Monitor 1V = 1.2 A for COMPAX 1000SL, 2500S, COMPAX 4500S; 1V = 2.4A for COMPAX 8500S																																			
Physical	Connections Inputs/Outputs 16-pin screw terminal, removable (15-pin D connector on 1000SL) 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 (6-pin screw terminal on 1000SL) AC supply 4-pin screw terminal, removable (3-pin screw terminal on 1000SL) Control voltage 2-pin screw terminal, removable Absolute encoder 9-pin D connector (not available on 1000SL)																																			
Environment	Drive temp range (ambient) 0-45° C (32-113° F) Maximum heat sink temp 85° C (185° F) Motor temp range (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 (not available on COMPAX1000SL)																																			

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