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Find the *Harmonic Drive Systems SC-510-5-230-S0* at our website: *Click HERE*

AC-Servo Controller Series SC-500/501

The SC-500 and SC-510 series servo controllers have been designed to drive the RS- and FHA-series AC servo actuators. Three basic units with nominal currents of 2.5A, 5A and 7.5A are available. The digital control principle and the 16 bit feedback operation allow a very smooth velocity behaviour even at a very low speeds. A variety of adjustable operating modes via the setup software enable various different applications in connection with typical CNC, PLC and stepping motor controllers. In addition, the SC-510 series is capable of single or multi axis control using ASCII sequences sent online via the RS-232 or RS-422 interface of a PC.

Features	**Unit**	**SC-5x0-2**	**SC-5x0-5**	**SC-5x0-7**
Power Supply Single Phase (+15%, -20%)	[VAC]	115~230	115~230	115~230
Nominal DC-Bus	[VDC]	160/320	320	320
Nominal Current	[Arms]	2.5	5	7.5
Peak Current (approx. 2,5sec.)	[Arms]	5	10	15
Nominal Output Power	[KVA]	1.01	2.17	2.99
Cycle times (Current-, Velocity-, Position Loop)	[ms]	0.125 / 0.250 / 0.5		
Operating Modes SC-500 (configurable by Setup-Software)		Current control with ±10V analogue demand input Velocity control with ±10V analogue demand input Pulse-Follower with Pulse-/ Direction signal (24V-Level)		
Operating Modes SC-510 (configurable by Setup-Software)		Current control with ±10V analogue demand input Velocity control with ±10V analogue demand input Position Control, 15 Positions can be selected via 4 dig. inputs (24V-Pegel) or ASCII-Interface for single-/ multi axis operation		
Feedback Systems		Resolver (2-polig) or Hall-Encoder (TTL-Level)		
Encoder Monitor		A, B, C-Signal according to RS-422-Standard		
Dimensions (H x T)	[mm]	173 x 152.5		
Dimensions (B)	[mm]	67.5	92.5	109
Ambient temperature (Operation)	[°C]	+5 ~ +40 °C (derating 2.5%/K at 40°C< T < 50°C)		
Mass	[Kg]	1.24	2.13	2.19

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