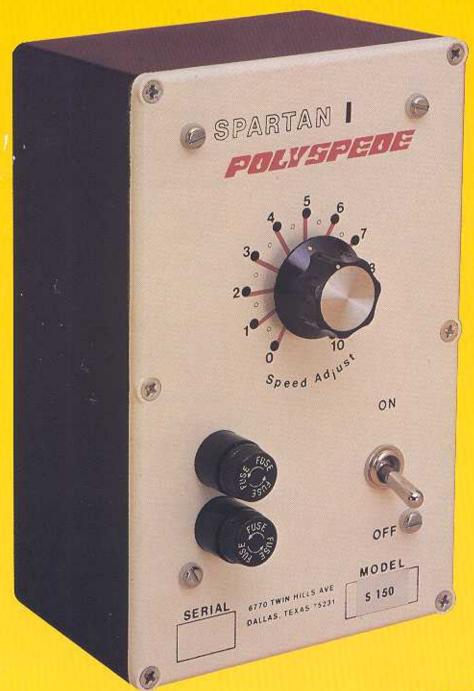
Spartan I DC SPEED CONTROL 1/8 through 11/2 hp

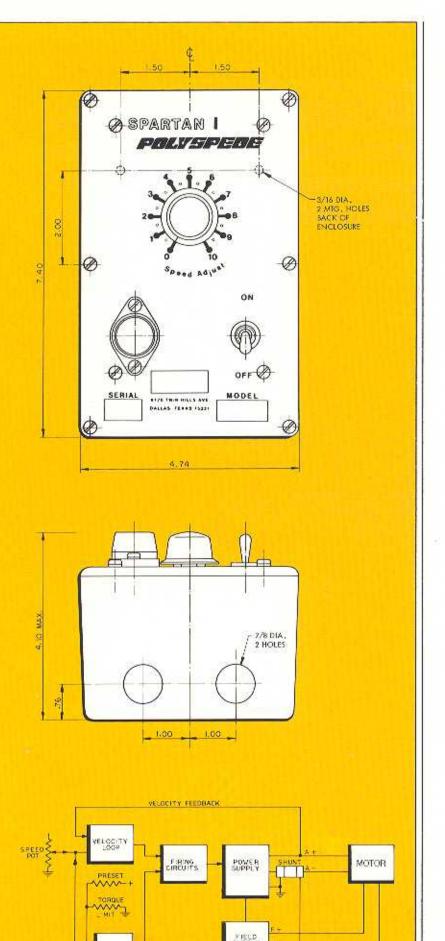


The Polyspede Spartan I is an SCR control which operates a variable speed DC motor from an AC power source. It is suitable for both shunt wound and permanent magnet motors.

The Spartan I is a low cost, compact, non-modifiable design for general purpose applications where $\pm 3\%$ speed regulation accuracy is sufficient. It is completely enclosed, with rugged construction and conservatively rated components for long, continuous service in industrial environments. A high degree of standardization allows the inclusion of many features which are usually found in more expensive controls.

Spartan I is a part of Polyspede's overall product line, which includes fractional through 400 hp DC SCR drives in single-quadrant and four-quadrant regenerative designs.

1201445124012



TORQUE FEEDBACK

Spartan I

Standard Features

- 50/60 Hz, single phase input power.
 Choice of 115 VAC ±10% or 230 VAC ±10%.
- Rated for continuous duty at 40°C ambient.
- Front panel mounted sub-cycle fusing for short circuit and semi-conductor protection.
- 100 : 1 speed control range.
- Fixed torque limit—150% of rated torque or current.
- Speed regulation ±3% of base speed, over entire range of 0 to 100% load.
- · Transient voltage protection.
- · Maximum speed adjustment.
- Fixed IR compensation 4% boost.
- · Overload protection.
- Fixed, controlled, exponential acceleration from 0 to 90% final speed in 0.58 seconds.
 Soft start.
- · Temperature-stable speed setting.
- Leads-out design for input/output connections.
- · Linear speed dial.
- Suitable for shunt wound or permanent magnet DC motors.
- · Comprehensive Basic Manual included.

Motor Horsepower	Catalog Number	
	115 Volts	230 Volts
1/8	S-12	
V ₆	S-16	
1/4	S-25	=
V ₃	S-33	S-34
1/2	S-50	S-51
3/4	S-75	S-76
1		S-101
11/2	1974	S-150

Input voltage tolerance is ± 10%



Polyspede Electronics Corporation 6770 Twin Hills Avenue • Dallas, Texas 75231 Telephone 214-363-7245 • Telex 73-0816