200XLV 2 Amp



SPRINT ELECTRIC

data

PRODUCT SPECIFICATIONS

Fast response, DC motor speed controller up to 100 watts

200XLV for driving brushed DC motors and gearmotors

The 200XLV will motor and brake in both directions of rotation and operate from a single polarity supply, either battery or unregulated DC source.

Excellent performance allows the 200XLV to meet the most demanding of applications, and the extensive specification includes many standard features not normally associated with a drive the size and cost of this controller.

Offering high bandwidth and a superbly linear, noise free output, the 200XLV is ideal for control of linear actuators. Here the unit can be used with three term PID control, tacho input and position feedback for accurate speed and position control. A speed ramping function may also be added to provide a quicker response to sudden demand changes, while the drive's set point ramp facility can be used to limit slew rates for applications where a fast response is not required.

The compact design allows the 200XLV to be mounted on a back panel or DIN rail, and with all the connections being made to the front access, plug on, screw-terminals installation is quick and easy. The installation manual includes a comprehensive set up guide and a series of typical wiring schemes enables users to select a configuration to suit their application.

Fully EMC compliant and CE marked, the Sprint Electric 200XLV now provides designers and OEMs with a tiny but powerful linear DC motor speed controller. Its low cost and high specification, together with the flexibility provided by the many user configurable parameters, makes it highly attractive to OEMs, particularly those involved in the manufacture of security and other equipment requiring accurate control of low power DC motors.

Key Features include:

- Motor and brakes in both directions.
- Ideal for small DC motors and linear actuators up to 48V.
- Fast response.
- +/-2A output, with 150% overload capability.
- +ve and -ve differential speed inputs.
- Built in thermal protection with resettable trip.
- Current limit protection.
- 3 term PID control action.
- Armature or tacho feedback operation.
- Position control facility.
- Setpoint ramp facility.
- High bandwidth with suberbly linear output.
- Accepts bipolar or unipolar command inputs.
- Easily interfaced for limit switch operation.
- Adjustable IR compensation for improved AVF speed regulation.
  Dimensions 82 x 40 x 50 (mm), 3.2" x 1.6" x 2"

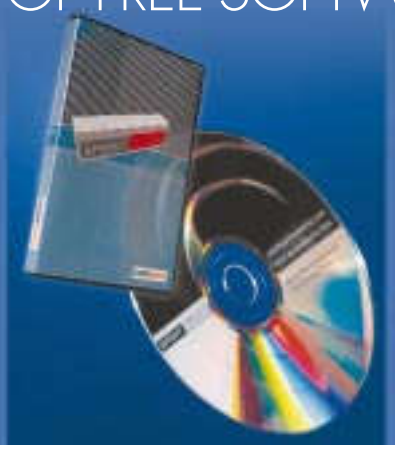
Specifications

VOLTAGE LIMIT	CURRENT LIMIT	INPUT SUPPLY	PRESETS	REFERENCES	SPEED INPUTS	CONTROL ACTION
For DC motors with a maximum voltage ratings from +/-6V up to +/-48V	0 to +/-2 amps continuous, +/-3amps peak.	12 to 48V DC, +/-25%.	Max speed limit IR comp 0 to 6 ohms	Precision current limited voltages references , +10V, +5V 5mA max.	Differential inputs.	P or P+I or PID, armature, tacho or position feedback.

CD-ROM VERSION OF SPRINT ELECTRIC WEB SITE OFFERS A HOST OF FREE SOFTWARE AND DRIVES DATA

A WEALTH OF USEFUL INFORMATION AND SOFTWARE FOR THE SELECTION, SPECIFICATION AND CONFIGURATION OF DC DRIVES HAS BEEN CRAMMED ON TO A NEW CD.

Available free on request and included with every Sprint Electric digital DC drive, the CD-ROM is an off-line version of Sprint Electric's recently redesigned and expanded web site www.sprint-electric.com. It includes full specifications, technical manuals and troubleshooting guides for Sprint's entire range of over 50 digital and analogue DC drives - the widest selection currently available from any manufacturer.



Also included is a full version of Sprint's PL Pilot software for the configuration of single or multiple PL/X digital drives. This easy to use Windows-based package makes programming and diagnostics for these sophisticated drives straightforward, even for users with no specialist knowledge.

Other useful features for expert and inexperienced users alike are the detailed glossary of drives terms and a comprehensive section giving detailed answers to frequently asked questions on drives configuration.

A news section gives details on Sprint's latest product launches and applications, while a selection of web links enables users with internet access to connect direct to other drives web sites.

This practical and informative CD-ROM is of use to anyone designing, operating or installing DC drive systems, whether or not they are using Sprint's range of modern products.

Visit our website for all the lastest information regarding DC drives

www.sprint-electric.com

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