

Rev. A, October 14, 2007

Description

The **Supr-** family of products from DIVA Automation is characterized by the incorporation of related functions normally required in typical applications of the product, but not normally included in competitive products. Our **SuprMotr** controllers, for instance, incorporate uncommitted digital and analog I/O lines, so that a separate PLC is not required in many applications. This feature not only reduces cost, but simplifies integration of the motion with other parameters and signals.

The **SuprAmpA** is an analog amplifier intended primarily for use in driving small motors. Its "**Supr**" feature consists of inputs from **limit switches** to prevent accidental motion beyond safe physical operating limits. The active state of the limit switches may be modified by on-board jumpers. When a limit switch is activated, no further drive is possible in the direction of that switch. However, drive in the opposite direction is unaffected.

It accepts an industry-standard +/- 10 Volt input to drive precision-size motors bidirectionally, with selectable gain.

A DB-15 connector provides direct connection to motor functions, to pass through those that require service in other assemblies, such as position encoder signals.

A companion product, the **SprAmpD**, performs a similar function using a PWM driver for higher efficiency. The **SuprAmpA** is used where the lowest electrical noise is important.

Features

- **Small size**--2" x 3.5"
- **Wide bandwidth**--45 KHz
- **Limit switch** support
- **Standard input:** +/- 10 V
- **High voltage**--up to +/- 40 V
- **High current**--5 Amps, continuous, **10 Amps**, peak.
- **High slew rate**--6 V/ μ s
- **Current limited**--adjustable
- **High power**--up to 100 W

- Wide temperature range--up to 85^o C.
- Low offset voltage--2 mV, typical
- Low offset current--1 pA, typical
- Low input bias current--4 pA
- Output swing--(Vs-10 V) at 5 A.
- FET input--10¹² ohm input imp
- Low power--20 mA quiescent

Low cost--\$149

OEM discounts available.



DIVA Automation
sales@DivaAutomation.com

Fitting your budget and your needs with precision.
+1-800-984-DIVA