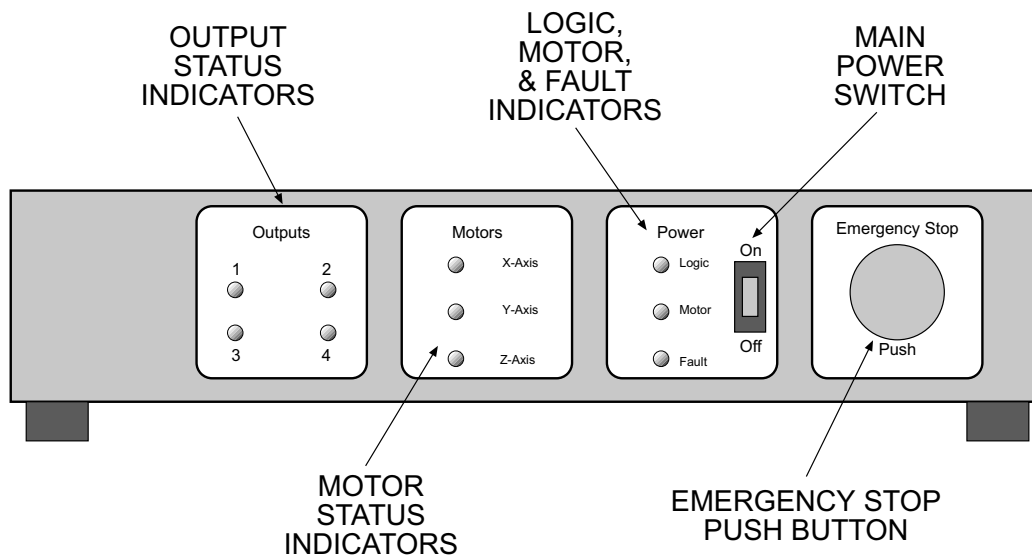


SuperDrivetm

Multi-Axis Power Driver



FEATURES/BENEFITS:

- Rugged all steel construction shields against RFI/EMI interference
- Completely wired and tested system for ease of installation
- Emergency stop and lighted power switch for improved safety
- Bicolored LEDs to indicate motion and output status
- Solid state relays for AC control
- Built-in cooling fan
- Toroidal transformer for compact Overall profile

SuperDrive is a rugged, complete power driver subsystem with built in power supply and drivers for up to 3 stepper motors. Includes motor drivers, toroidal power supply, cooling fan, and 2 solid state relays to control spindle, vacuum, coolant, etc... SuperDrive provides a complete multi-driver powered system that connects directly to the OptiStep motion controller via a standard DB25 cable. SuperDrive is available in full/half stepping and microstepping models.

Driver choices are Dr3535 for Full/half stepping and DM4050 for microstepping.

SPECIFICATIONS:

Drive circuit	Bipolar constant current
Chopping rate	20 KHz nominal
Motor voltage	40 VDC
Output Current	Up to 5 amps per phase continuous
Stepping Mode	Full/ Half or Microstep depending on model
Current cutback	Half current. after 1/2 second of idle
Step inputs	4 TTL compat. pos. edge trig.
Direction inputs	4 TTL compatible
Limit switch inputs	8 TTL compatible
Shield switch input	1 TTL compatible
Control output	2 AC 25 Amp non inductive 8 Amp inductive max.
Motor control outputs	4 lines per axis
Working temp. range	32°F ~ 158° F (0° C ~ 70° C)

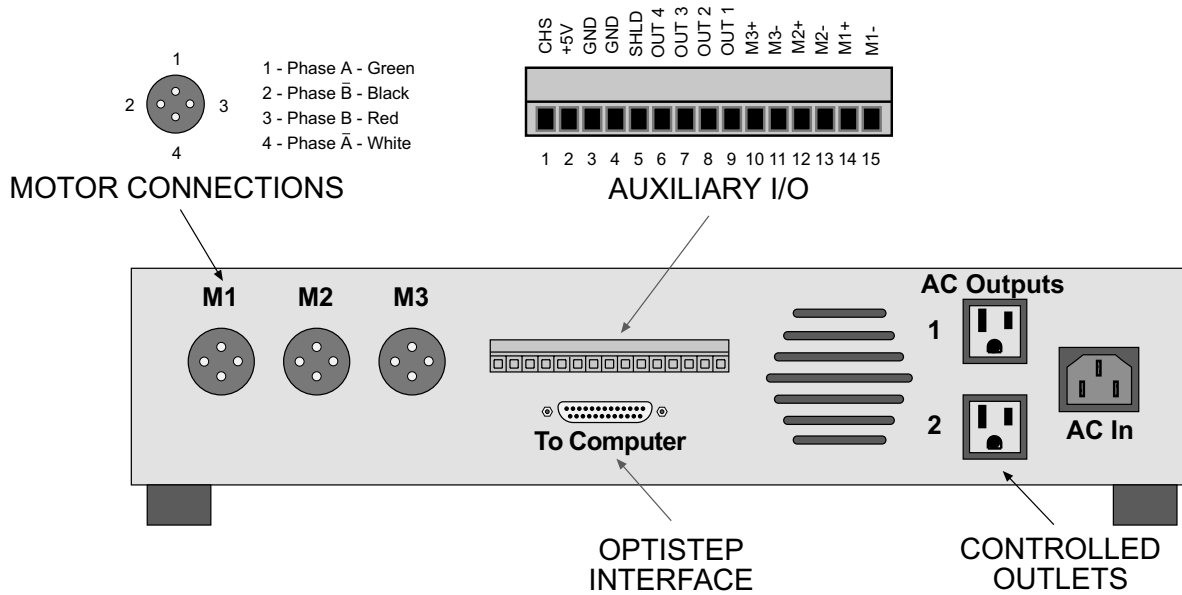
MicroKinetics Corporation

Sales (770) 422-7845 Fax (770) 422-7854

Rev A1

2117-A Barret Park Drive, Kennesaw, Georgia 30144

SS018



To Computer, DB-25 connector signals

PIN	DESCRIPTION	PIN	DESCRIPTION
1	M1 DIRECTION	14	LIMIT M1-
2	M1 CLOCK	15	LIMIT M1+
3	M2 DIRECTION	16	LIMIT M2-
4	M2 CLOCK	17	LIMIT M2+
5	M3 DIRECTION	18	LIMIT M3-
6	M3 CLOCK	19	LIMIT M3+
7	M4 DIRECTION	20	SHIELD
8	M4 CLOCK	21	LIMIT M4-
9	NOT USED	22	LIMIT M4+
10	NOT USED	23	GROUND
11	OUTPUT 1	24	OUTPUT 4
12	OUTPUT 2	25	+5VDC
13	OUTPUT 3		