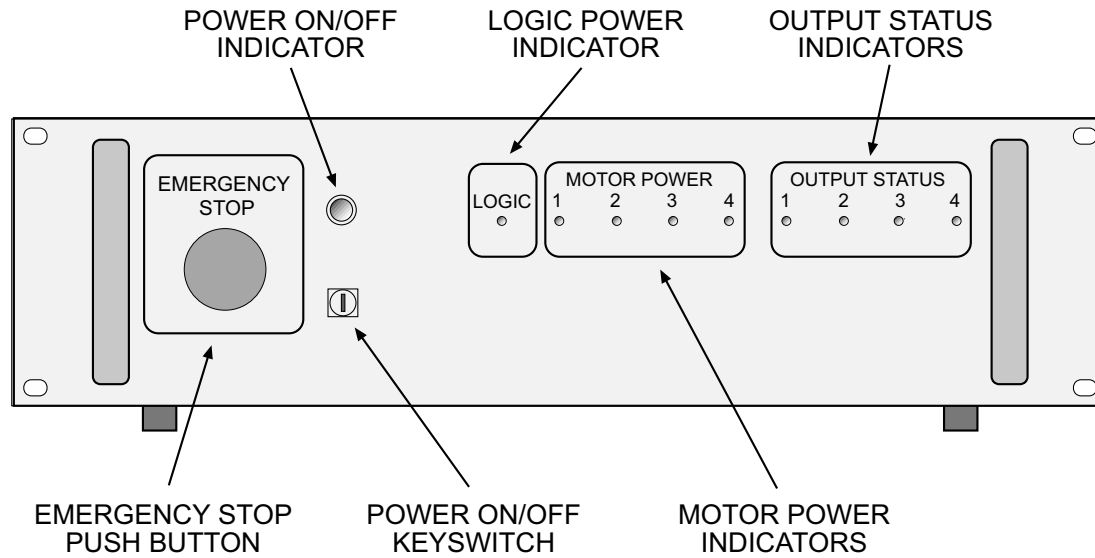


# DriveRack™

## 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 keylock for improved safety
- High (105) CFM fan increases reliability
- Externally removable and washable fan filter eases maintenance
- Solid state relays for AC control allows control of external devices

DriveRack is a rugged, enclosed unit suitable for benchtop and rack mountable use. Houses all drive electronics, indicator lights, electronically latched ON/OFF keylock switch, emergency stop button, solid state relays to control spindle, vacuum, coolant etc..., a powerful (105 cfm) fan, motor drivers and power supplies. DriveRack provides a complete multi-driver system that is ready for immediate use. And connects directly to the OptiStep motion controller via a standard DB25 cable. DriveRacks are available in full/half stepping and micro-stepping models.

Full/half stepping drivers are: DR3535 (40V), DR8010 (80v)

Microstepping models are: DM4050 (40V), DM8010 (80V)

### **SPECIFICATIONS:**

Drive circuit	Bipolar constant current
Chopping rate	20 KHz nominal
Motor voltage	40 or 80 VDC Depending on Model
Output Current	Up to 10 amps per phase continuous Depending on Model
Stepping Mode	Half / Full/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)

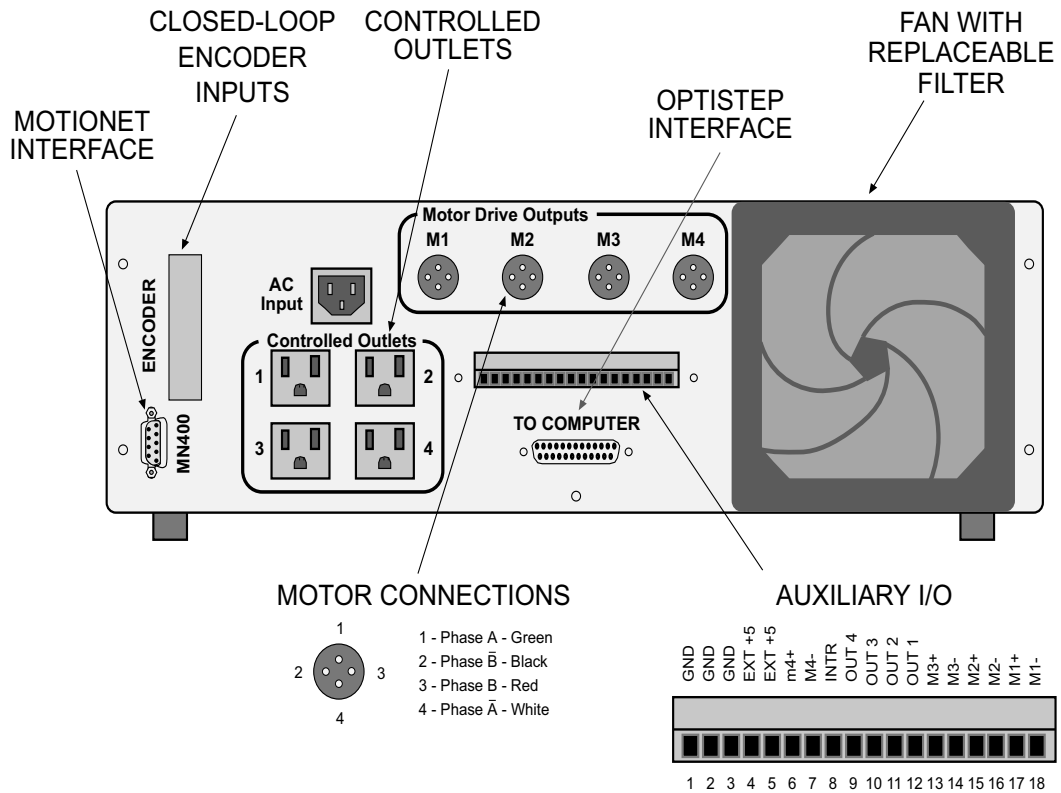
**MicroKinetics Corporation**

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

Rev A2

2117-A Barrett Park Drive, Kennesaw, Georgia 30144

SS006



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		