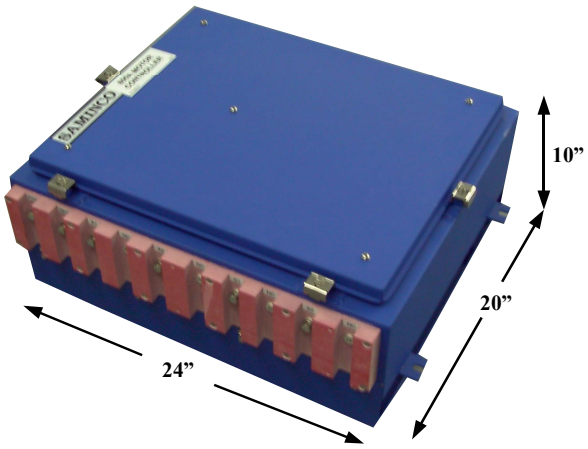
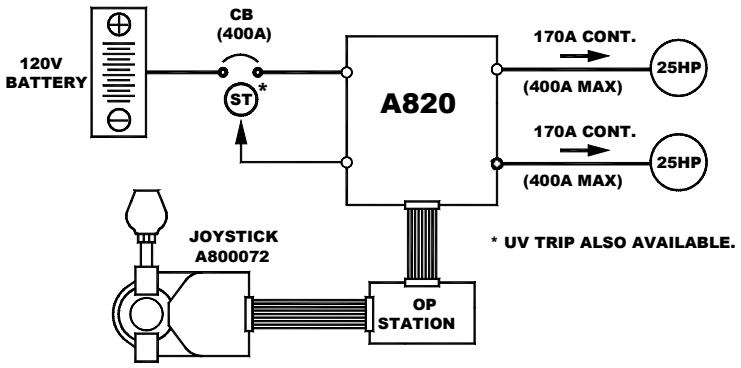
A820
LOCOMOTIVE CONTROLLER
Dual 10HP to 25HP 120VDC

SAMINCO
ELECTRIC TRACTION DRIVES



A820 System



- Compact enclosure houses all power control devices, capacitor bank, and soft start components.
- Output current capability of 170A continuous, 400A peak for 10 seconds for each motor
- Provides infinitely variable, reversible speed control for DC series motors from 10HP to 50HP/120VDC.
- Solid state reversing eliminates maintenance problems associated with contactors.
- Shunt mode regenerative braking smooth, powerful braking down to almost standstill. This feature greatly prolongs life of mechanical brakes.

Saminco Part Number: **A800259**

Specifications:

Input Voltage: 120V or 128V battery (90V min –144V max.)
Output Voltage: 0 to 98% of input voltage
Output current: **Tramming:** 170A continuously, 400A peak for 10 sec. for each motor
Regen: Braking: 180A maximum per motor
Motor HP range: 10HP to 25HP at 120VDC

Overtemperature Protection:
•At a baseplate temperature of 85°C (185°F), the control circuit will cut back to 50% of nominal (200A instead of 400A maximum current)
•Customer must provide overload relays for each tram motor. (Recommended)
•Should the internal temperature of the tram controller power devices exceed 105°C (221°F), then the tram controller will be shut off, and the 400A circuit breaker will trip.

Regenerative Braking: -Braking occurs whenever the operator moves his joystick towards himself, and can occur from either the left or right joystick. Braking intensity is proportional to the movement of joystick away from center, the greater the movement, the fiercer the braking action.

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