

Q800 Series

Digital DC/DC Locomotive Controller

20 - 50HP at 120VDC
40 - 100HP at 250VDC

SAMINCO
ELECTRIC TRACTION DRIVES



- Compact, digital DC/DC traction drive for Man-Trips, Locomotives and Utility Vehicles
- Single motor drive for portal buses, Tandem motor drive for locomotives
- Microprocessor based drive system using the latest NPT (non-punch through) IGBT technology
- Sensor-less motor speed indication and automatic over-speed protection
- Compact enclosure houses all power control devices, capacitor bank, and soft start devices
- Torque control mode provides superb traction and acceleration
- Rugged, short circuit proof power circuit provides excellent long term reliability
- Comprehensive display housed in XP headlight enclosure
- Uses the same digital operator and user interface as our A400 Q750 and VFD drive systems
- Multiple control options: standard analog foot switch, Radio Remote Control, Operator Station, PLC,
- Regenerative braking provides smooth, powerful, braking down to almost standstill. This feature greatly prolongs life of mechanical brakes
- Backwards compatible with all existing Saminco A800 systems
- Contactor-less reversing

Specifications:

Input Voltage:	128V battery (80V min –160V max) 300V Trolley (180V min 360V max)
Output Voltage:	0 to 98% of input voltage
Output current:	Tramming: 350A continuously, 1600A peak for 10 sec. (Single motor) Regen Braking: 350A
Motor HP maximum range:	50HP @ 120VDC Single motor - 30HP Dual Motors 100HP @ 250VDC Single motor - 50HP Dual Motors
Multi-motor Operation:	2 Q800 units can easily be operated in tandem (4 x 50HP motors @ 250V)

Regenerative Braking:

Braking occurs whenever the operator moves his joystick towards himself. 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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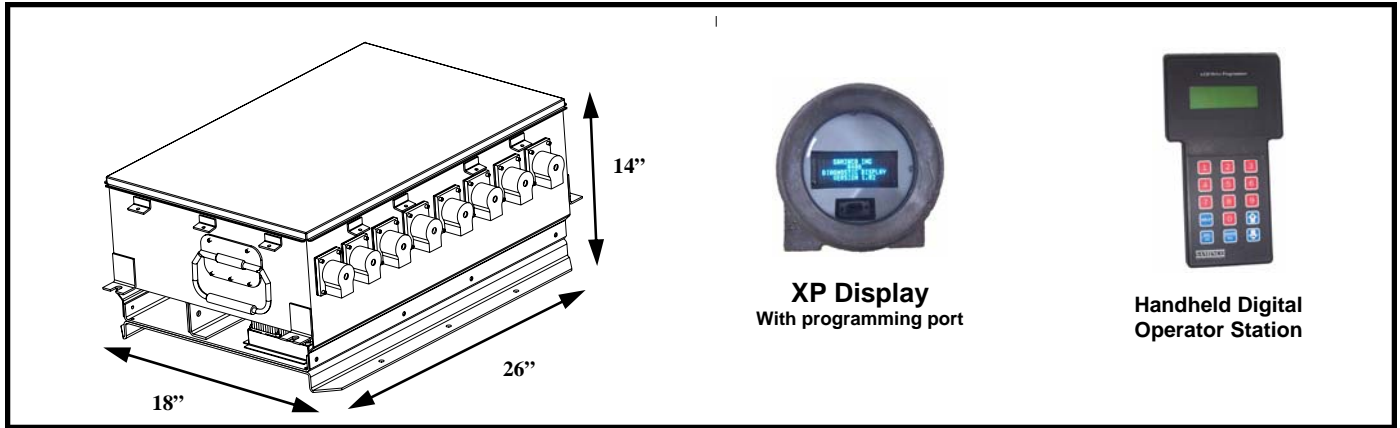
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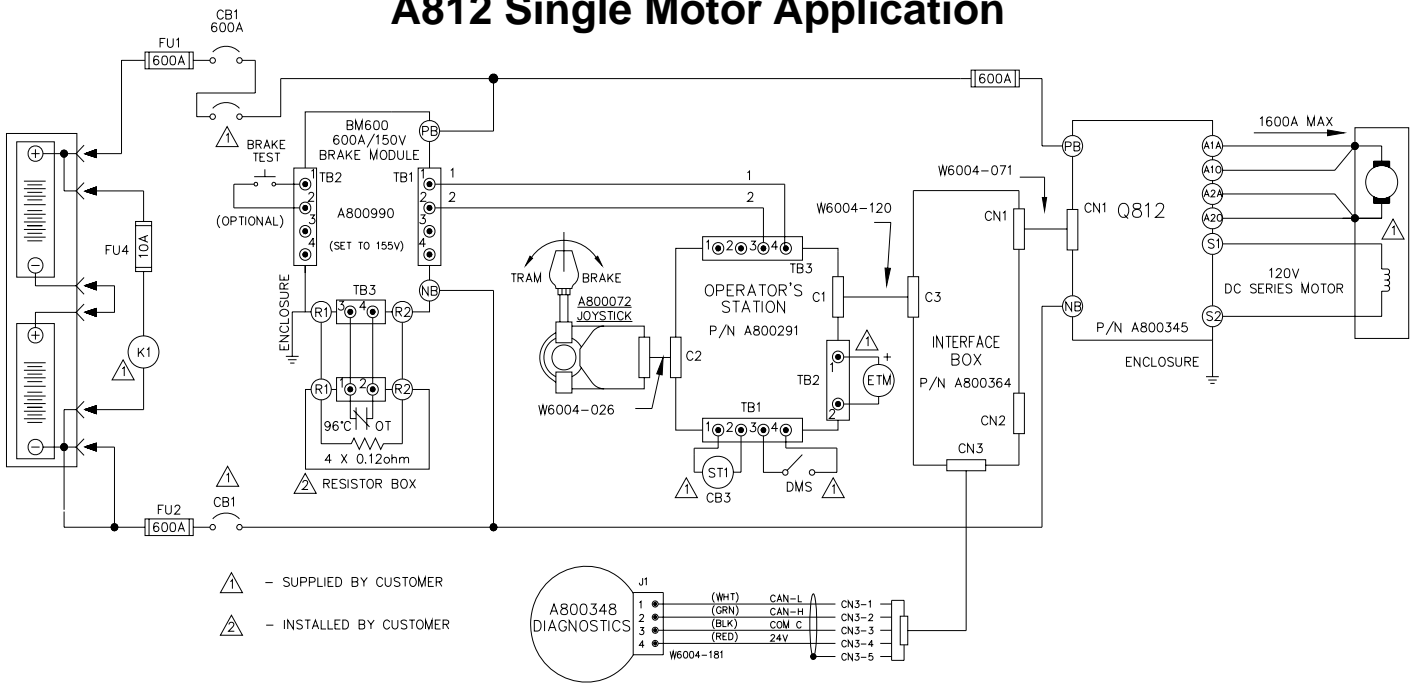
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A812 Single Motor Application



Model	Part Number	Description	Input V	Output Power
Q812	A800345	Single Motor 50HP 120V	80 - 160VDC	50kW (420A @ 120VDC)
Q820	A800359	Dual Motor 30HP 120V	80 - 160VDC	2x 25kW (2x 210A @ 120VDC)
Q826	A800346	Single Motor 100HP 250V	180 - 360VDC	100kW (400A @ 250VDC)
Q821	A800314	Dual Motor 50HP 250V	180 - 360VDC	2x 50kW (2x 200A @ 250VDC)

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