

## Q750 for Scoops

### DC to DC Digital Drive System

#### Description

The Q750 is a compact, digital DC/DC traction drive available for single motor or dual motor operation.

#### Features

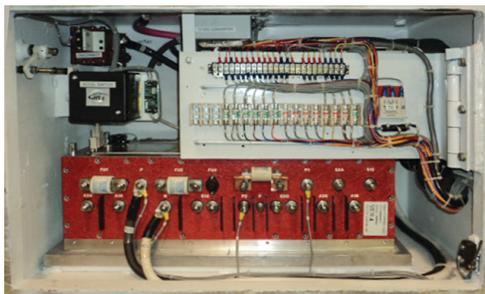
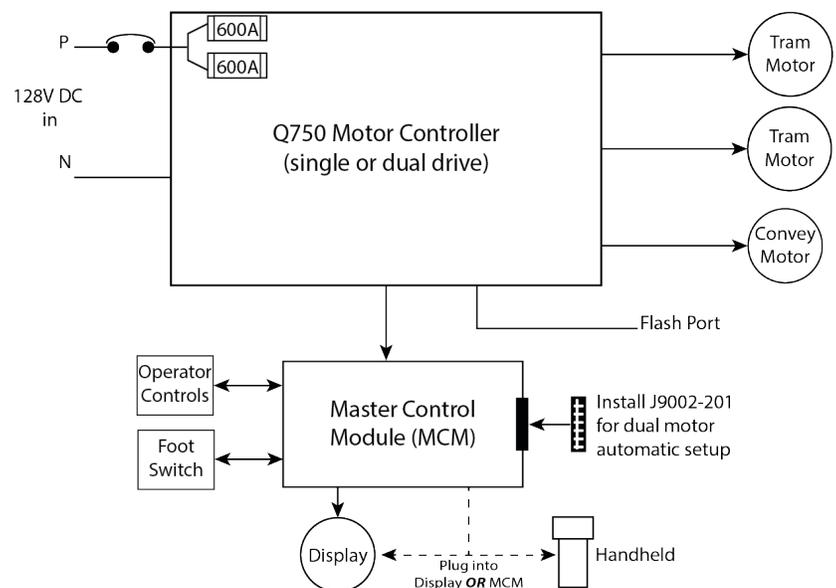
- Microprocessor based drive system using the latest NPT (non-punched through) IGBT technology
- Automatic motor speed-limiting
- Compact enclosure houses all power control devices, capacitor bank and soft start devices.
- Torque control mode provides superb traction and acceleration.
- Rugged, short circuit proof power circuit provides excellent long term reliability.
- Comprehensive display housed in explosion proof headlight enclosure.
- Uses the same Handheld Programmer and user interface as our JD400, Q800 and VFD drive systems.
- Regenerative braking provides smooth, powerful braking down to almost standstill. This feature greatly prolongs life of mechanical brakes.
- Over-current protection: Magnetic circuit breaker in DC supply (customer supplied) instantaneous cut-out if motor current exceeds 2500A for 100HP.

**Applications:**

- Scoops
- Shield Haulers
- Utility Vehicles



Example block diagram of Q750 scoop system setup



Specifications	Electrical Specifications			
	Single Drive (A800355-3)		Dual Drive (A800357-3)*	
	Input	Output	Input	Output
Rated Power @ Rated Volts	44kW @128V	42kW @ 128V	87kW @ 128V	84kW @ 128V
Frequency Range	DC	DC	DC	DC
Voltage Range	80 - 160VDC	0 - 98%V in	80 - 160VDC	0 - 98%V in
Amps @ Rated Power	370A @ 44kW	350A @ 42kW (1600A Peak)	725A @ 87kW	2 x 350A (800A Peak)

\*NOTE: With J9002-201 address plug on MCM CN2 connector, Q750 parameter will automatically change to dual motor mode.

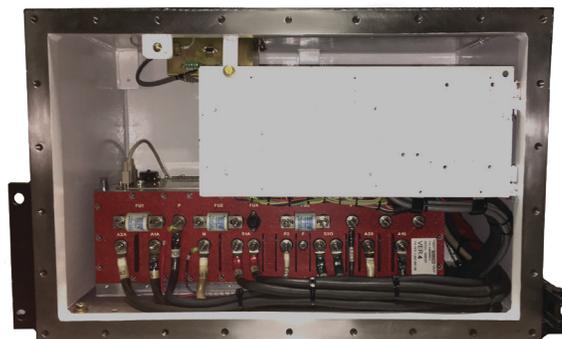
Environmental Specifications	
Description	Specifications
Ambient Operating Temperature	-10°C (no frost) to +50°C (14°F to 122°F)
Storage Temperature	-40°C to +60°C (-40°F to 140°F)
Relative Humidity	<90% (No Condensation)
Altitude	3300 Feet (1000 meters) - De-Rate above 3000 meters.

Dimensions	
Height	230mm (9.1")
Width	705mm (27.8")
Depth	290mm (11.5")
Weight	54kg (119 lbs)

Q750 system mounted in XP box with swinging panel open

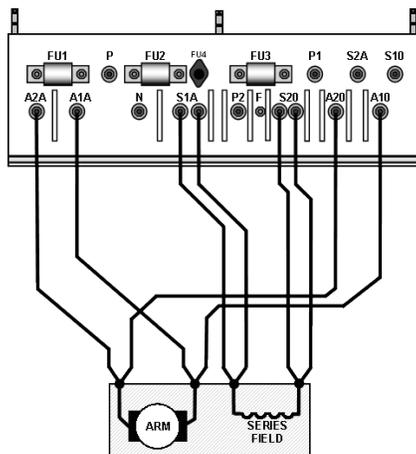


Q750 system mounted in XP box with swinging panel closed

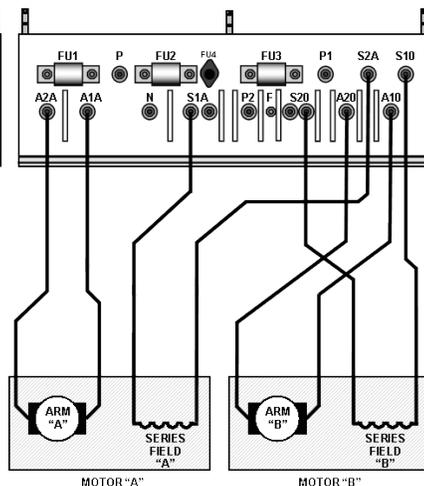


Suggested motor wiring connections (Consult with your salesperson for proper connections for your specific system.)

Single motor system



Dual motor system



Options for the Q750 System

Part Name	Description	Part Number
Q750	Single 40kW (53HP) / 120VDC Drive	A800355-3
Q750	Dual 80kW (100HP) / 120VDC Drive	A800357-3
Parts available for both systems		
Master Control Module	Interface Box	A800365
SR-300	Option #1 Footswitch	A800281
FS400	Option #2: Footswitch	A800498
Diagnostic Display	In XP enclosure with programming port	A800348
Handheld Programmer	Provides read and write access to firmware parameter sets	A800220
Cable Kit	Cable kit for the Q750	W6005-121
Cable	Cable 18CON 16Pin 72in, MCM to terminal C1	W6004-048
Cable	Cable 25CON Sub-D 36in, drive to MCM	W6004-001

\*\*Partial list shown. Please see your salesperson for all available options and configurations

Ph: 239-561-1561 • Email: sales@samincoinc.com • Web: www.samincoinc.com



**FLORIDA**  
 Headquarters  
 10030 Amberwood Rd.  
 Ft. Myers, FL 33913  
 Ph: 239-561-1561  
 FAX: 239-561-1502

**WEST VIRGINIA**  
 Service Branch  
 517 Virginia Ave.  
 Huntington, WV 25701  
 Ph: 304-523-4700  
 FAX: 304-523-4039

**COLORADO**  
 Service Branch  
 Cedaredge, CO 81141  
 Ph: 970-623-0000

**SOUTH CAROLINA**  
 Service Branch  
 Anderson, SC  
 Ph: 864-314-9046

**International Locations:**  
 Boksburg, South Africa  
 Australia  
 Poland