



1. Locomotion

1.1 Motor Drive Amplifier

1.2 Motor

1.3 Brake Drive Amplifier

1.4 Brake

1.5 Gearbox

1.6 Joint Angle Resolver

1.7 Motor Output Resolver

2. Data Handling and Processing

2.1 Processor

2.2 Memory

2.3 Storage

2.4 Data Bus (MIL-STD 1553)

2.5 EMI Filter

3. Thermal Control

3.1 Heater Controller

3.2 Heater

3.3 Multi-Layer Insulation

3.4 Radiators

4. Power

4.1 Battery Backup

4.2 Power Bus

4.3 Overcurrent Protection

4.4 Voltage Converter

4.5 EMI Filter

5. End-Effector

5.1 Motor Drive Amplifier

5.2 Motor

6. Sensors

6.1 Torque Sensor

6.2 Thermocouple

6.3 Force Sensor

6.4 Proximity Sensor

6.5 Camera

6.6 Light

7. Frame

7.1 Boom

7.2 Joint Encasing

7.3 EVA Fixtures