Electric Propulsion Controls and Accessories

AC-77 AC Torque Motor for Locomotives

11,000Nm AC Torque Motor alternative to existing D77 DC motors for locomotives.

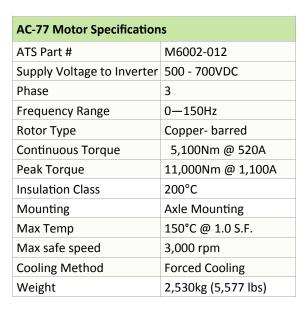
Features

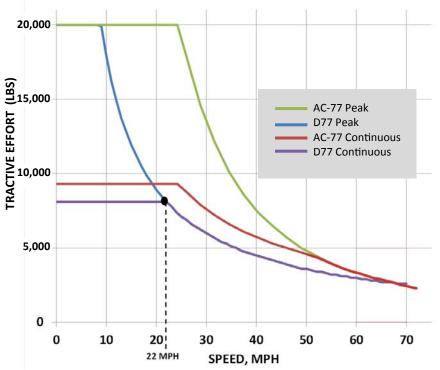
- Mechanically compatible with the D77 motor, the AC-77 fits in same pedestal position in the locomotive truck/ bogie.
- Continuous and peak tractive effort improvement over D77 equipped locomotives
- Improved AC motor technology requires maintenance and repair downtime than DC motor. Typical DC motor drawbacks such as armature commutator damage, "carbon tracking", frequent brush replacement and commutator repair, are nonexistent with the AC induction motor.
- Reduced cooling requirements due to high efficiency copper rotor and stator construction
- Convenient terminal block for motor power cable connections
- The AC-77 eliminates reversing contactors for quick and smooth reversing
- Designed to operate with the proven ATS Variable Frequency Drive featuring fully controllable automatic regenerative braking and advanced wheel slip/spin control.



AC-77 AC Torque Motor

Comparison of AC-77 AC Torque Motor to D77 DC Motor (62:15 gear ratio with 40" wheels)

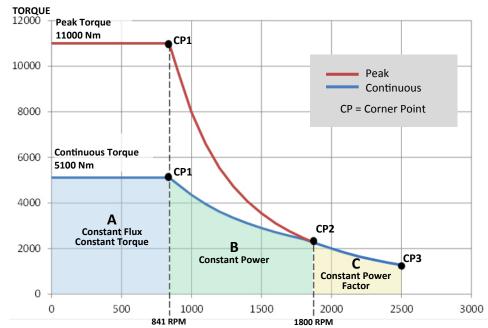




Electric Propulsion Controls and Accessories

AC-77 AC Torque Motor for Locomotives

AC-77 Torque - Speed Characteristics at Motor Shaft



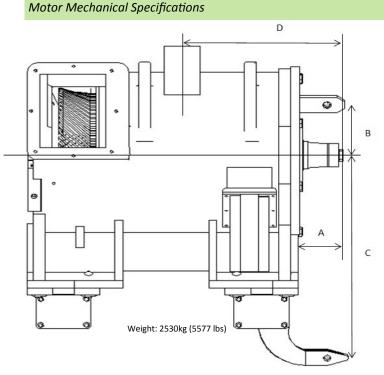
Corner Point (CP) is a border between areas of characteristics following different laws (A,B,C).

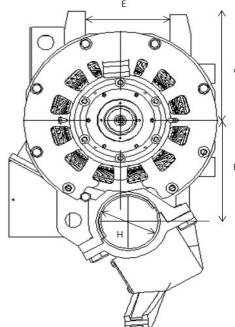


AC-77 AC Torque Motor terminal box (cover removed)



Stator winding





ivieasured	mm	inches
Α	178	7
В	219	8.6
С	433	17.1
D	867	34.1
E	332	13.1
F	433	17.1
G	468	18.4
Н	235	9.3