

ENGINEERING SPECIFICATIONS

Advanced D.C. Motors, Inc.

6268 East Molloy Road, East Syracuse, New York 13057
(315) 434-9303 Fax (315) 432-9290

Motor Test Specification SC-400

Part No. EJ Type Traction Motor

Production Test Specification

<u>Voltage</u>	<u>Field Current (A)</u>	<u>Max. Amps</u>	<u>Torque (FT-LB)</u>	<u>Min. RPM</u>	<u>Max. RPM</u>
48.0	10.0	105	10.0	2455	2700

Armature Resistance at 75° F (24° C) -----0.012 Ohms Between Bar 1 and 15

Field Resistance at 75° F (24° C) -----1.75 Ohms

Motor Field Test Specification

No load:	12 Volt Field	Amp Max Field: 7.5	RPM Min.: 695
	12 Volt Arm.	Amp Max Arm: 7.0	RPM Max: 775

Technical Service Data

4 Heavy Duty Brush Holders, 4 Brush Assemblies, 4 Brush Springs

Maximum Brush Length ----- 1.30 Inches/ 35 mm

Minimum Brush Length ----- 0.62 Inches/ 16 mm

Brush Spring Tension ----- New Brush ---- 53 Oz./ 1500 Grams

Worn Brush --- 35 Oz./ 990 Grams

Commutator----- Number of Bars----- 57 Bars

Maximum Dia. New ----- 2.92 Inches/ 74.2 mm

Minimum Dia. for reslotting--- 2.80 Inches/ 71.1 mm

Replacement Dia.----- 2.75 Inches/ 69.9 mm

Additional Information:

(1) Bearings double sealed and lubricated for the life of the bearing with high temperature grease.

CW	CCW
Dyno Power(+)A1	Dyno Power(+)A1
Dyno Power(-)A2	Dyno Power(-)A2
Aux Power(+)F1	Aux Power(-)F1
Aux Power(-)F2	Aux Power(+)F2

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