

SPECIFICATIONS

Starting motor			
Rated voltage	12V		
Rated output	0.6kW		
Rated operation	30seconds		
Direction of rotation	Counterclockwise (viewing into shaft)		
Weight	5.3lbs (2.4kg)		
	Without load	With load	Stalling load
Voltage	11V	8.5V	5V
Amperage	Max. 35A	120A	Max. 280A
Torque	—	Min. 0.12kg-m	Min. 0.32kg-m
Revolution	11,000~22,000rpm	Min. 3,200rpm	—
Primary reduction ratio	4.7 : 1		
Secondary reduction ratio	4.69 : 1		
Total reduction ratio	22.04 : 1		
Starter magnetic switch			
Rated voltage	12V		
Operating voltage	7.5V		

Item	Standard value	Serviceable limit
Carbon brush length	0.472~0.512in. 12~13mm	0.217in. 5.5mm
Mica undercut		0.012in. 0.3mm
Carbon brush spring	500~600gr	—

DIAGNOSIS

Trouble	Probable Causes	Remedy
Starting motor does not operate	<ol style="list-style-type: none"> 1. Defective battery 2. Poor contact of magnetic switch 3. Poor contact of starting motor carbon brush 	Charge or replace Repair or replace Repair or replace