

STARTING

SERVICE DATA

SS06Z-04

Pre-heating system	Light lighting time Super glow type Variable delay type	Approx. 2.2 seconds Approx. 5 seconds
Starter (2.0 kW)	Rated voltage and output power No-load characteristics Current rpm Brush length STD Minimum Brush spring installed load STD Minimum Commutator Diameter STD Minimum Undercut depth STD Minimum Circle runout Maximum Field frame Shunt coil resistance Magnetic switch Contact plate for wear Maximum	12 V 2.0 kW 100 A or less at 11.5 V 4,000 rpm or more 15.0 mm (0.591 in.) 9.0 mm (0.354 in.) 21.5 – 27.5 N (2.2 – 2.8 kgf, 4.9 – 6.2 lbf) 12.7 N (1.3 kgf, 2.9 lbf) 35.0 mm (1.378 in.) 34.0 mm (1.339 in.) 0.7 mm (0.028 in.) 0.2 mm (0.008 in.) 0.05 mm (0.020 in.) at 20°C (68°F) 1.5 – 1.9 Ω 0.9 mm (0.035 in.)
Starter (2.2 kW)	Rated voltage and output power No-load characteristics Current rpm Brush length STD Minimum Brush spring installed load STD Minimum Commutator Diameter STD Minimum Undercut depth STD Minimum Circle runout Maximum Magnetic switch Contact plate for wear Maximum	12 V 2.2 kW 120 A or less at 11.5 V 4,000 rpm or more 16.5 mm (0.650 in.) 9.0 mm (0.354 in.) 26.5 – 32.3 N (2.7 – 3.3 kgf, 6.0 – 7.3 lbf) 17.6 N (1.8 kgf, 4.0 lbf) 35.0 mm (1.378 in.) 34.0 mm (1.339 in.) 0.7 mm (0.028 in.) 0.2 mm (0.008 in.) 0.05 mm (0.020 in.) 0.9 mm (0.035 in.)
Starter (2.7 kW)	Rated voltage and output power No-load characteristics Current rpm Brush length STD Minimum Brush spring installed load STD Minimum Commutator Diameter STD Minimum Undercut depth STD Minimum Circle runout Maximum Magnetic switch Contact plate for wear Maximum	12 V 2.7 kW 180 A or less at 11.0 V 3,500 rpm or more 20.5 mm (0.807 in.) 11.0 mm (0.433 in.) 34.3 – 42.1 N (3.5 – 4.3 kgf, 7.7 – 9.5 lbf) 18.6 N (1.9 kgf, 4.2 lbf) 36.0 mm (1.417 in.) 35.0 mm (1.378 in.) 0.7 mm (0.028 in.) 0.2 mm (0.008 in.) 0.05 mm (0.020 in.) 1.6 mm (0.063 in.)