

STARTING (5VZ-FE)

SERVICE DATA

SS01A-07

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|---|---|--------------------|--|
| Starter (1.4 kW type) | Rated voltage and output power | | 12 V 1.4 kW |
| | No-load characteristics | Current | 90 A or less at 11.5 V |
| | | rpm | 3,000 rpm or more |
| | Brush length | STD | 15.5 mm (0.610 in.) |
| | | Minimum | 10.0 mm (0.394 in.) |
| | Spring installed load | STD | 17.6 – 23.5 N (1.80 – 2.40 kgf, 4.0 – 5.3 lbf) |
| | | Minimum | 11.8 N (1.20 kgf, 2.6 lbf) |
| | Commutator Diameter | STD | 30 mm (1.180 in.) |
| | | Minimum | 29 mm (1.140 in.) |
| | Undercut depth | STD | 0.6 mm (0.024 in.) |
| | | Minimum | 0.2 mm (0.008 in.) |
| | Circle runout | Maximum | 0.05 mm (0.0020 in.) |
| | Magnetic switch Contact plate for wear | Maximum | 0.9 mm (0.035 in.) |
| Starter (1.8 kW type) | Rated voltage and output power | | 12 V 1.8 kW |
| | No-load characteristics | Current | 100 A or less at 11.5 V |
| | | rpm | 2,500 rpm or more |
| | Shunt coil resistance | at 20°C (68°F) | 1.4 – 1.9 Ω |
| | Brush length | STD | 15.0 mm (0.591 in.) |
| | | Minimum | 9.0 mm (0.354 in.) |
| | Spring installed load | STD | 21.5 – 27.5 N (2.20 – 2.80 kgf, 4.9 – 6.2 lbf) |
| | | Minimum | 12.7 N (1.30 kgf, 2.7 lbf) |
| | Commutator Diameter | STD | 35 mm (1.378 in.) |
| | | Minimum | 34 mm (1.339 in.) |
| | Undercut depth | STD | 0.7 mm (0.028 in.) |
| | | Minimum | 0.2 mm (0.008 in.) |
| | Circle runout | Maximum | 0.05 mm (0.0020 in.) |
| Magnetic switch Contact plate for wear | Maximum | 0.9 mm (0.035 in.) | |