

STARTING (1GR-FE)

SERVICE DATA

SS1MB-01

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|-----------------------------------|----------------|---|
| Starter (1.6 kW type) | | |
| Rated voltage and output power | | 12 V 1.6 kW |
| No-load characteristics | Current | 90 A or less at 11.5 V |
| Starter armature assy | | |
| Commutator length | Standard | 3.1 mm (0.122 in.) |
| | Minimum | 3.8 mm (0.150 in.) |
| Starter commutator end frame assy | | |
| Brush holder length | Standard | 9.0 mm (0.354 in.) |
| | Minimum | 4.0 mm (0.158 in.) |
| Starter armature assy | | |
| Snap ring length | Maximum | 5.0 mm (0.197 in.) |
| Starter (2.0 kW type) | | |
| Rated voltage and output power | | 12 V 2.0 kW |
| No-load characteristics | Current | 100 A or less at 11.5 V |
| Starter armature assy | | |
| Circle runout | Maximum | 0.05 mm (0.0020 in.) |
| Commutator diameter | Standard | 35.0 mm (1.378 in.) |
| | Minimum | 34.0 mm (1.339 in.) |
| Undercut depth | Standard | 0.7 mm (0.028 in.) |
| | Minimum | 0.2 mm (0.008 in.) |
| Starter yoke | | |
| Shunt coil resistance | at 20°C (68°F) | 1.5 to 1.9 Ω |
| Brush | | |
| Brush length | Standard | 15.0 mm (0.591 in.) |
| | Minimum | 9.0 mm (0.354 in.) |
| Starter brush holder assy | | |
| Brush spring load | Standard | 21.5 to 27.5 N (2.2 to 2.8 kgf, 4.8 to 6.2 lbf) |
| | Minimum | 12.7 N (1.3 kgf, 2.9 lbf) |