STARTING

SERVICE DATA

SS0YU–03

Pre–heating system	Light lighting time		
	Super glow type	at 20˚C (68˚F)	Approx. 1.0 seconds
	Fixed delay type	at 20˚C (68˚F)	
	12 V type		5.1 – 6.9 seconds
	24 V type		4.25 – 5.75 seconds
Starter (12 V type)	Rated voltage and output power		12V 2.5 kW
	No–load characteristics	Current	180 A or less at 11.0 V
		rpm	3,500 rpm or less
	Brush length	STD	20.5 mm (0.807 in.)
		Minimum	11.0 mm (0.433 in.)
	Spring installed load	STD	34.3 – 42.1 N (3.4 – 4.1 kgf, 7.7 – 9.5 lbf)
		Minimum	18.6 N (1.8 kgf, 4.2 lbf)
	Commutator		
	Diameter	STD	36.0 mm (1.417 in.)
		Minimum	35.0 mm (1.378 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	1.6 mm (0.063 in.)
Starter (24 V type)	Rated voltage and output power		24V 4.5 kW
	No–load characteristics	Current	90 A or less at 23.0 V
		rpm	3,500 rpm or less
	Brush length	STD	20.5 mm (0.828 in.)
		Minimum	11.0 mm (0.472 in.)
	Spring installed load	STD	34.3 – 42.1 N (3.4 – 4.1 kgf, 7.7 – 9.5 lbf)
		Minimum	18.6 N (1.8 kgf, 4.2 lbf)
	Commutator		
	Diameter	STD	36.0 mm (1.417 in.)
		Minimum	35.0 mm (1.378 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	1.6 mm (0.063 in.)