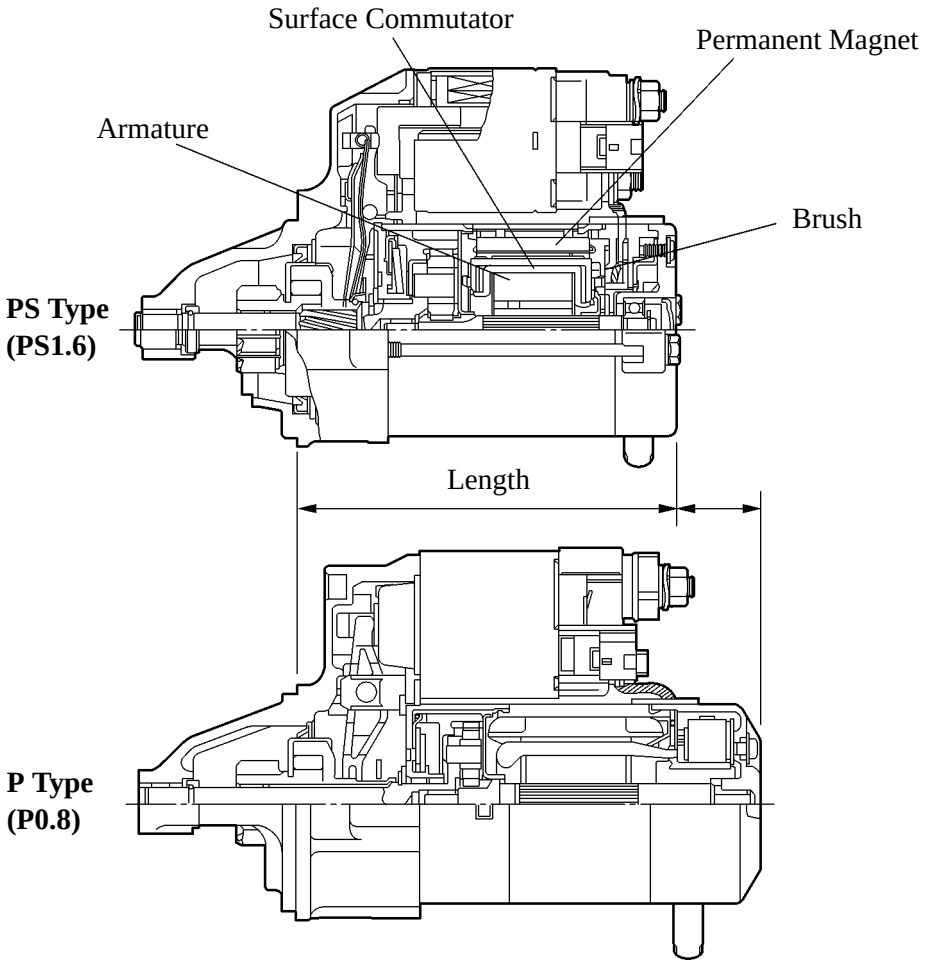
■STARTING SYSTEM

1. General

- A P (conventional planetary reduction) type starter is used in the models for U.S.A.
- A PS (planetary reduction-segment conductor motor) type starter is used in the models for Canada and cold areas of the U.S.A.



▶ Specification ◀

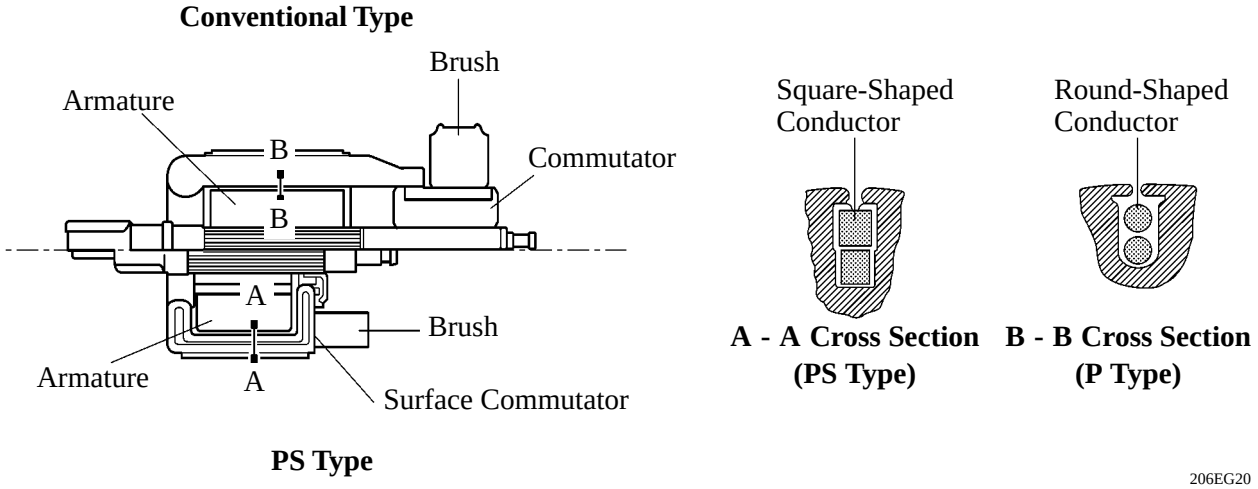
Destination	U.S.A.	Canada, Cold Areas of U.S.A.
Starter Type	P Type	PS Type
Rating Output	0.8 kW	1.6 kW
Rating Voltage	12 V	←
Length*1 mm (in.)	154 (6.1)	133 (5.2)
Weight g (lb)	2800 (6.2)	←
Rotation Direction*2	Clockwise	←

*1: Length from the mounted area to the rear end of the starter
*2: Viewed from Pinion Side

2. PS (Planetary reduction-Segment conductor motor) Type Starter

Construction

- Instead of constructing the armature coil with P type of round-shaped conductor wires, the PS type starter uses square conductors. With this type of construction, the same conditions that are realized by winding numerous round-shaped conductor wires can be achieved without increasing the mass. As a result, the output torque has been increased, and the armature coil has been made compact.
- Because the surface of the square-shaped conductors that are used in the armature coil functions as a commutator, the overall length of the PS type starter has been shortened.



- Instead of the field coils used in the P type starter, the PS type starter uses two types of permanent magnets: the main magnets and the interpolar magnets. The main and interpolar magnets are arranged alternately inside the yoke, allowing the magnetic flux that is generated between the main and interpolar magnets to be added to the magnetic flux that is generated by the main magnets. In addition to increasing the amount of magnetic flux, this construction shortens the overall length of the yoke.

