Switched Reluctance Motor for Electric Motorcycle

◇ Outside dimension

![Diagram of motor outside dimensions]

◇ Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Rating voltage</th>
<th>Rating current</th>
<th>Rating speed</th>
<th>Rating output</th>
<th>Rating Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRM-S18T-1</td>
<td>DC72V</td>
<td>19A</td>
<td>6750r/min</td>
<td>0.59kW</td>
<td>Continuity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>67A</td>
<td>2400r/min</td>
<td>3.0kW</td>
<td>5 minutes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum speed</th>
<th>Maximum torque</th>
<th>Maximum output</th>
<th>Motor structure</th>
<th>Cooling method</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7500r/min</td>
<td>38Nm</td>
<td>3.4kW</td>
<td>Totally enclosed type</td>
<td>Air cooling</td>
<td>11kg</td>
</tr>
</tbody>
</table>

◇ Characteristic curve

![Characteristic curve graph]

◇ Option

Reduction gear

![Reduction gear diagram]
Motor Drive Unit for Electric Motorcycle

◇ Motor for Electric Motorcycle (Switched Reluctance Motor)

Specifications
- Input voltage: 72 V
- Cooling method: Air cooling
- Rating output: 0.59 kW
- Maximum output: 3.4 kW
- Rating speed: 6750 r/min
- Maximum speed: 7500 r/min
- Rating torque: 0.8 Nm
- Maximum torque: 3.8 Nm

◇ Controller for Electric Motorcycle

Specifications
- Rating voltage: 72 V
- Rating current (Continuation): 24 A
- Cooling method: Air cooling

◇ System image

Controller
Accelerator signal
Speed display
Brake signal

Battery
Motor