TM4® MOTIVE™
Integrated Motor / Inverter

Features
- Peak power: 150 kW
- Peak torque: 360 Nm
- Max operating speed: 11,000 RPM

Benefits
- Integrated motor and inverter system
- Compact solution: inverter 33% smaller than previous generation
- Designed according to ISO26262 ASIL-C principles
- Seamless integration into Dana’s gearboxes and axles

Optimized for passenger cars applications and up to class 2 commercial vehicles.
TM4® MOTIVE™ Integrated Motor / Inverter

The TM4 MOTIVE series features integrated permanent magnet electric motors and power-dense electronic inverters. Designed according to ISO26262 standards, these systems are efficient turnkey solutions created expressly for light-duty electric vehicle and hybrid vehicle applications.

**System Features**
- 3-phase permanent magnet motor
- High specific torque/power system
- Low electro-magnetic audible noise
- Low-cogging and ripple torque for better NVH
- Thermal protection
- Variable switching frequency
- Medium voltage inverter (450 Vdc max)
- ReflexTM gate driver technology for high power and current densities

**Inverter Features**
- System protection: IP 69K
- Max coolant inlet temperature: 65°C
- Coolant type: 40/60 water-glycol
- Toxic materials and flammability: ROHS, ELV, UL94-V0
- External corrosion resistance: Salt mist, chemical products

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>Peak power</th>
<th>Continuous power</th>
<th>Peak torque</th>
<th>Continuous torque</th>
<th>Max operating speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM4 MOTIVE MV275</td>
<td>120 kW</td>
<td>70 kW</td>
<td>275 Nm</td>
<td>120 Nm</td>
<td>11,000 RPM</td>
</tr>
<tr>
<td>TM4 MOTIVE MV360</td>
<td>150 kW</td>
<td>90 kW</td>
<td>360 Nm</td>
<td>230 Nm</td>
<td>11,000 RPM</td>
</tr>
</tbody>
</table>

450 Vdc, 30 seconds, 45°C
Specifications are subject to change

MV275: 251 mm
MV360: 298 mm

MV275: 42 kg
MV360: 60 kg

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Application Policy
Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from TM4; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.

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