

# TM4 SUMO™ MD

## Motor / Inverter System

### Features

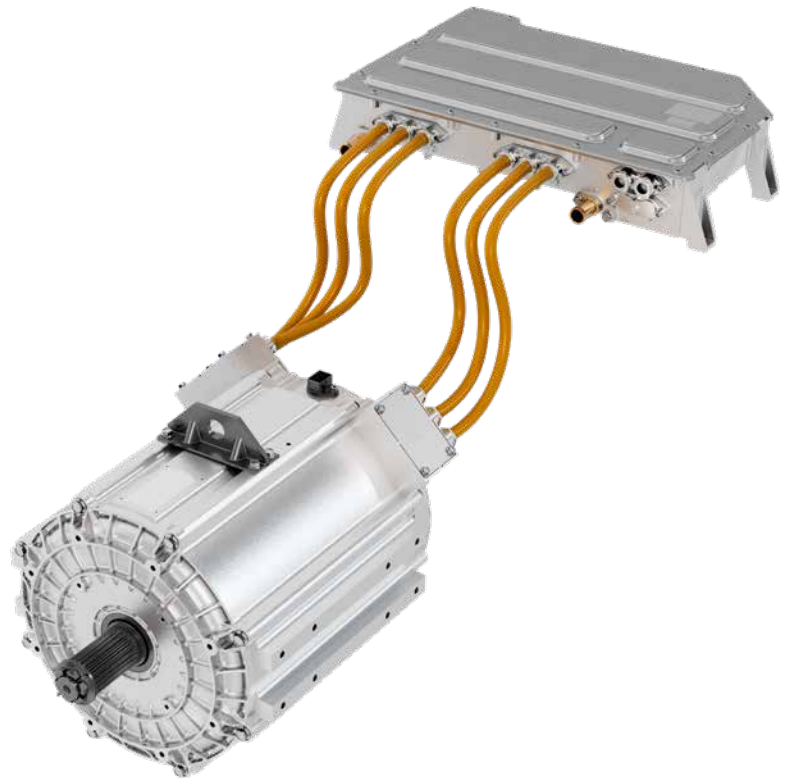
- Peak power: Up to 265 kW
- Peak torque: Up to 3320 Nm
- Max operating speed: 3700 RPM

### Benefits

- High torque/low speed permanent magnet motor and inverter combinations
- Designed to interface directly with standard axles (no gearbox required)

### Standards

- System protection: IP67 / IP6K9K
- Automotive components:  
AEC-Q100 / AEC-Q101 / AEC-Q200
- Electromagnetic compatibility EMC: Main automotive international standards
- Shock and vibration standards: GMW3172 Sprung masses
- Max coolant inlet temperature: 65°C
- Coolant type: 40/60 water-glycol



Ideal for Class 4 to 7 Commercial Vehicles, Bus Platforms, and Off-Highway Applications.



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### Motor Features

- Proven permanent magnet technology for optimal efficiency
- Outer rotor topology for maximum torque density
- Low electro-magnetic audible noise
- Low-cogging and ripple torque for better NVH
- Four-quadrant operation

### Latest System Features **NEW**

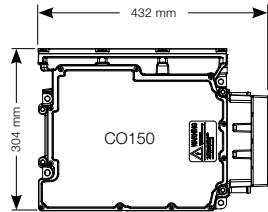
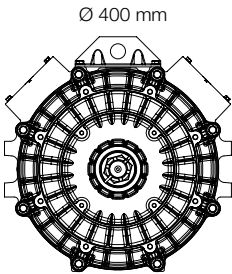
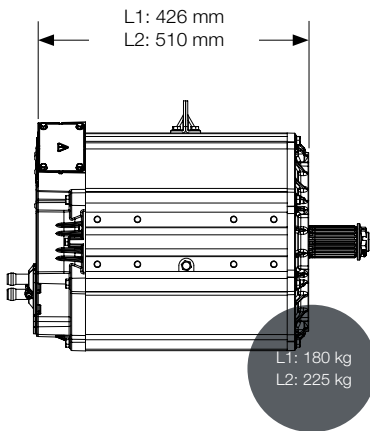
- Voltage increase: 750 V to 800 V
- Quick Connect with HVIL for safe and easy installation or maintenance
- Increased performances range
- KITAS option available on demand

### Inverter Features

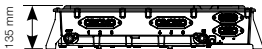
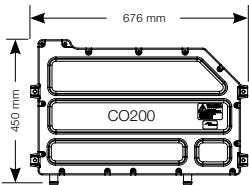
- 3-phase or 6-phase high-voltage inverter
- Variable switching frequency
- Reflex™ gate driver technology for high power and current densities
- EMI Filter
- Best-in-class power density
- High efficiency

| System                         | Casing Size | Inverter | Peak Power | Continuous Power | Peak Torque | Continuous Torque | Max Operating Speed | Voltage Range |
|--------------------------------|-------------|----------|------------|------------------|-------------|-------------------|---------------------|---------------|
| SUMO MD MV2500-6P*             | L2          | CO200    | 230 kW     | 115 kW           | 2500 Nm     | 1140 Nm           | 3000 RPM            | 130-450 Vdc   |
| SUMO MD HV1800-3P              | L1          | CO150    | 170 kW     | 100 kW           | 1775 Nm     | 680 Nm            | 3250 RPM            | 300-750 Vdc   |
| SUMO MD HV2200-3P              | L2          | CO150    | 215 kW     | 145 kW           | 2430 Nm     | 1275 Nm           | 2700 RPM            | 300-750 Vdc   |
| SUMO MD HV2200-3P** <b>NEW</b> | L2          | CO150    | 200 kW     | 145 kW           | 2200 Nm     | 955 Nm            | 2700 RPM            | 300-800 Vdc   |
| SUMO MD HV2200-6P              | L2          | CO200    | 255 kW     | 190 kW           | 2355 Nm     | 990 Nm            | 3700 RPM            | 300-750 Vdc   |
| SUMO MD HV2400-6P              | L1          | CO200    | 240 kW     | 120 kW           | 2300 Nm     | 605 Nm            | 3500 RPM            | 300-750 Vdc   |
| SUMO MD HV2600-6P              | L2          | CO200    | 265 kW     | 155 kW           | 2760 Nm     | 970 Nm            | 3500 RPM            | 300-750 Vdc   |
| SUMO MD HV2800-6P** <b>NEW</b> | L2          | CO200    | 300 kW     | 180 kW           | 2860 Nm     | 1050 Nm           | 3500 RPM            | 300-800 Vdc   |
| SUMO MD HV3000-6P              | L2          | CO200    | 235 kW     | 145 kW           | 3100 Nm     | 1055 Nm           | 3000 RPM            | 300-750 Vdc   |
| SUMO MD HV3300-6P** <b>NEW</b> | L2          | CO200    | 235 kW     | 130 kW           | 3320 Nm     | 960 Nm            | 3000 RPM            | 300-800 Vdc   |

600 Vdc, 45°C / \*350 Vdc, 45°C / \*\*650 Vdc, 45°C  
Specifications are subject to change



13 kg



25 kg

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#### Application Policy

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**TM4™**