

**HYBRID MOBILITY** 

# Integrated Starter Generator G40

/ G40 for Medium- and Heavyweight Vehicles



# **Technical Information** (dependent on variant)

| General  |                    |
|--|--------------------|
| Ambient temperature range                            | -46 to +121 °C     |
| Protection level (integrated to transmission)        | IP 67              |
| Axial length from SAE 1 flange                       | 120 mm             |
| Outer diameter                                       | 780 mm             |
| Weight   | 142 kg             |
| Electrical data                                      |                    |
| Rated power  | 610 V              |
| Maximum voltage                                      | 750 V              |
| Number of phases                                     | 2x3                |
| Rated electrical output power/efficiency @ 2,800 rpm | 160 kW / 95%       |
| Mechanical data                                      |                    |
| Maximum torque                                       | 1,950 Nm           |
| Continuous torque                                    | 750 Nm             |
| Peak power @ 610 VDC                                 | 160 kW             |
| Continuous power @ 610 VDC                           | 3,600 to 4,300 rpm |
| Rated speed  | 2,800 rpm          |
| Over speed   | 10%                |
| Cooling  |                    |
| Cooling medium                                       | water/glycol 50/50 |
| Nominal flow rate                                    | 14 l/min           |
| Maximum inlet temperature                            | 105 °C             |
| Maximum working pressure                             | 2.7 Bar            |
| Pressure drop  | 0.55 Bar           |

#### **Features**

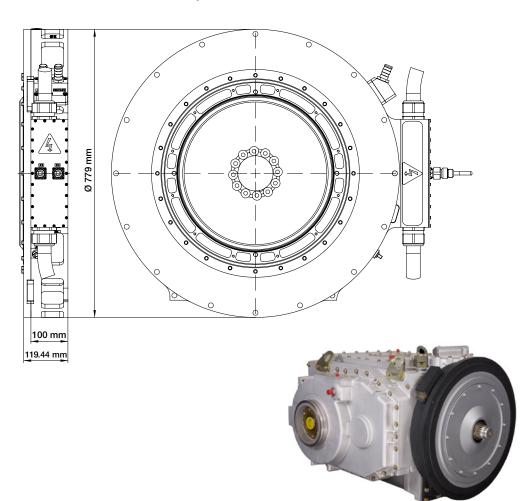
- Magnet-Motor's Integrated Starter Generator (ISG) G40 is especially designed for medium- and heavyweight vehicles with a requirement for additional onboard and exportable electric power.
- As a generator, it offers a continuous power rating of 160 kW. It also operates as an electric motor for starting the diesel engine and providing additional boost to the drivetrain using power from the battery.
- An inlet temperature of 60 °C allows for an even higher power rating of 220 kW, giving any hybrid vehicle a decisive technological edge.



# Integrated Starter Generator G40

### **Technical Characteristics**

- Permanent magnet, water-cooled
- Continuous power: 160 kW @ 2,800 rpm
- SAE 0 flange-compatible
- Slim design
- Designed to MIL-STD
- High-efficiency
- Maintenance-free



#### Trusted Partner.

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