

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

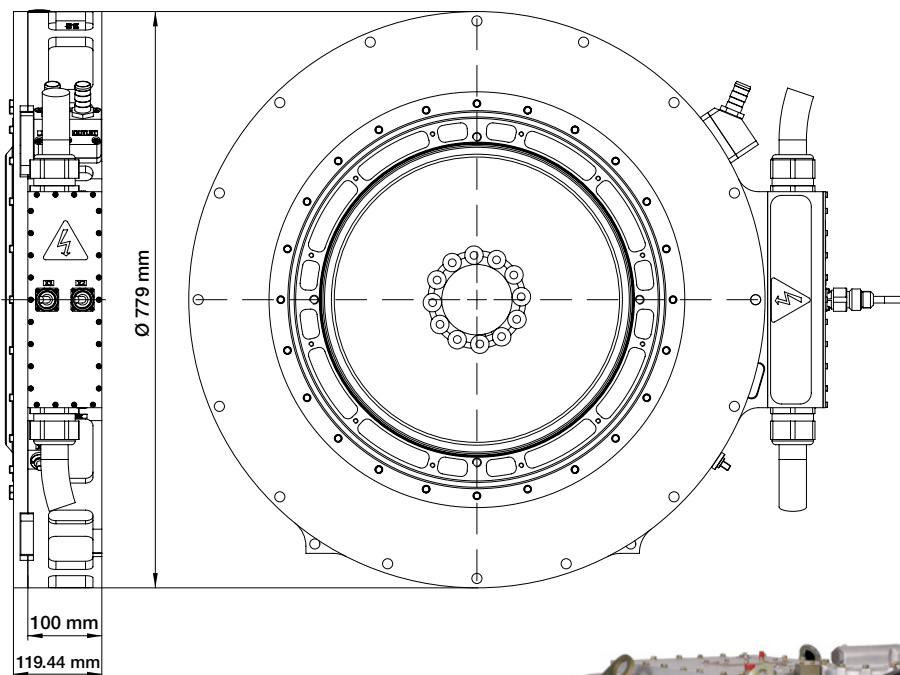
Features

- 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.

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Technical Characteristics

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



Trusted Partner.

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