

With additional PWM and CAN versions

# SPUMP FAMILY



## Speed pumping intelligent and flexible



The SPump 260 and 500 are ideal for cooling and heating circuits in vehicles, as well as for the thermal management of components such as batteries. They offer impressive high flow rates at high back pressure, an extended operating temperature range from -40 °C to +95 °C, diagnostic capabilities, and comprehensive selfprotection functions. Variants with PWM and CAN interfaces enable variable speed control, reduce energy consumption and noise emissions, and deliver the reliable performance specifically required for electric vehicles.

# SPump Family

SPUMP 260

SPUMP 500

## HIGHLIGHTS



### Low Life-Cycle Costs

- Leak-free, wear-resistant and maintenance-free due to the magnetic drive
- Brushless EC-motor allows a long service lifetime of up to 40,000 h
- With the IP6k9k classification, the pump is dust and water proof - ideal for demanding environmental conditions and other applications



### Comfort

- Intelligent function - error diagnosis and function monitoring of CAN versions



### Environmentally friendly

- Noise-optimized and ideally suited for use in electric or hybrid buses
- Optimized power consumption, high efficiency and energy savings through variable speed control in the PWM & CAN SPump versions
- Increased operational safety and comfort while reducing operating costs



### Reliability & durability

- The extended temperature range up to 95 °C allows operation under hot ambient conditions in the bus
- Full Protection Package in CAN versions
- High EMC level

## TECHNICAL DATA

	SPump 260	SPump 500
Power Consumption (W)	260	500
Flow Rate (l/h)	6,000 at 0.5 bar 1,000 at 1.0 bar	10,000 at 0.5 bar 1,500 at 1.5 bar
Rated Voltage (V)	24	24
Operating Voltage Range (V)	16.5...32	16.5...32
Temperature Range in Operation (°C)	-40 to +95	-40 to +85
Protection Class	IP6K9K (whole pump depending on the plug)	IP6K9K (whole pump)
Dimensions D / L (diameter / length in mm)	172 / 212	172 / 212
Weight (kg)	2.3 / 2.6 (CAN)	2.6
Lifetime (h)	40,000 <sup>1)</sup>	40,000 <sup>1)</sup>
Noise Level (dB), approx.	60 / 65 (CAN)	~ 65
Motor concept	magnetic coupling	magnetic coupling
Control	ON / OFF PWM (active low) CAN	CAN
CAN-interface	Acc. to SAE J1939	Acc. to SAE J1939
Plug	watertight Plug on demand (ON/OFF)	watertight
Brine	at least 30 % commercial radiator antifreeze <sup>2)</sup>	at least 30 % commercial radiator antifreeze <sup>2)</sup>

<sup>1)</sup> 40,000 h @ Tmax < 55 °C | 30,000 h @ Tmax < 65 °C | 10,000 h @ Tmax < 85 °C

<sup>2)</sup> 52 % at -40 °C