









SPAL COOLANT PUMPS 12 & 24V - 300 | 650 | 900W

A cooling pump is an essential part of any vehicle cooling system.

PRODUCT FEATURES

• 650W available

• 300W & 900W coming soon

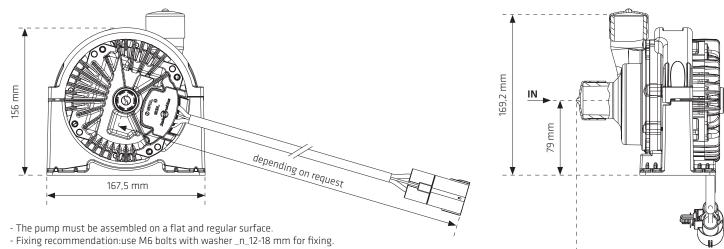
- Sealed Brushless Motor resistant to Corrosion & Water (IP68/IP6K9K Drive)
- Extended temperature range.
- PWM controlled, CAN and LIN version available
- Diagnosis functions
- Metal housing drive
- Robust & Reliable
- High Efficiency
- Silent
- Intelligent Drive
- Variable speed control
- Drive self protection features



Image is purely indicative and might change without any prior notice



149 mm

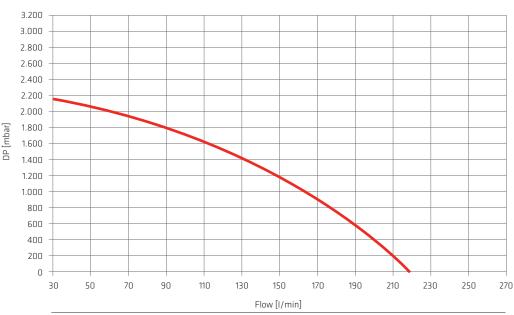


- Suggested Nominal torque 5 Nm.
- Nominal torque defined for brand new, clean and lubricant-free bolts.

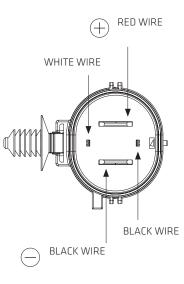
FEATURES				
Weight	kg	2,76 with bracket		
Operating supply voltage range	V	16.0 32.0 at the Drive connector		
Supply voltage to reach max speed	V	26.0 32.0 at the Drive connector		
Ambient temperature range	°C	-40 +120 (2)		
Max operating ambient temperature @ max pump speed	°C	+105 (1)		
Storage temperature range	°C	-40 +120		
Lifetime	h	up to 40.000 hours (2)		
Load dump protection (Pulse 5a)	available	IS016750-2		
Reverse polarity protection	available	ISO 16750-2		
Notes: (1) Few minutes ambient temperature transients do not engage the derating owing to the thermal inertia of the system. Overloads may anticipate derating.				
Notes: (2) Depending on mission profile				

ATTENTION: Our technical specifications are purely indicative and might change without any prior notice

PERFORMANCE AT MAXIMUM SPEED



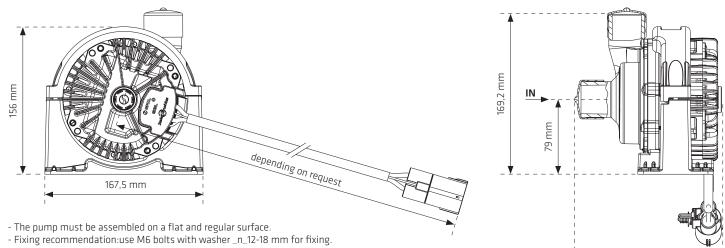
CONNECTOR AND WIRES



PWM Interface Version

Ethylene Glycol / Water mixture 60:40 ratio by volume – Density 1,08kg / I Test bench compliant to ISO9906 TAMB = 20 °C ± 5 °C - UB = 26.0 V at the Drive connector

MECHANICAL DATA

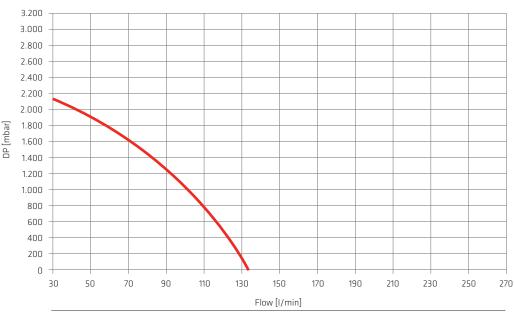


- Suggested Nominal torque 5 Nm.
- Nominal torque defined for brand new, clean and lubricant-free bolts.

FEATURES				
Weight	kg	2,46 with bracket		
Operating supply voltage range	V	16.0 32.0 at the Drive connector		
Supply voltage to reach max speed	V	26.0 32.0 at the Drive connector		
Ambient temperature range	°C	-40 +120 (2)		
Max operating ambient temperature @ max pump speed	°C	+105 (1)		
Storage temperature range	°C	-40 +120		
Lifetime	h	up to 40.000 hours (2)		
Load dump protection (Pulse 5a)	available	IS016750-2		
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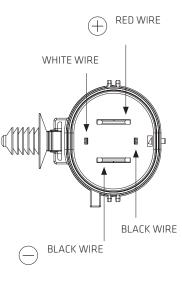
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PERFORMANCE AT MAXIMUM SPEED



CONNECTOR AND WIRES

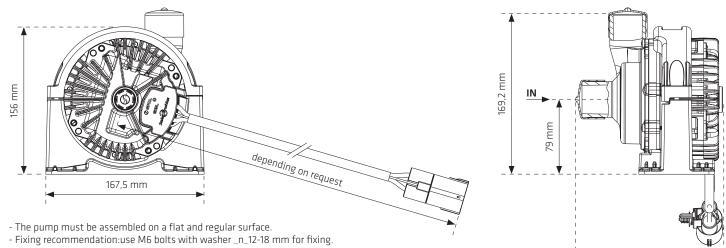
139 mm



PWM Interface Version

Ethylene Glycol / Water mixture 60:40 ratio by volume – Density 1,08kg / I Test bench compliant to ISO9906 TAMB = 20 °C ± 5 °C - UB = 26.0 V at the Drive connector

MECHANICAL DATA

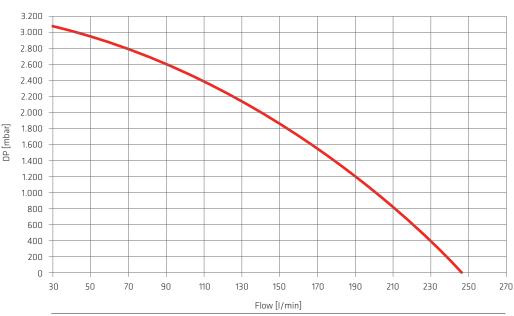


- Suggested Nominal torque 5 Nm.
- Nominal torque defined for brand new, clean and lubricant-free bolts.

FEATURES			
Weight	kg	2,96 With bracket	
Operating supply voltage range	V	16.0 32.0 at the Drive connector	
Supply voltage to reach max speed	V	26.0 32.0 at the Drive connector	
Ambient temperature range	°C	-40 +120 (2)	
Max operating ambient temperature @ max pump speed	°C	+95 (1)	
Storage temperature range	°C	-40 +120	
Lifetime	h	up to 40.000 hours (2)	
Load dump protection (Pulse 5a)	available	IS016750-2	
Reverse polarity protection	available	ISO 16750-2	
Notes: (1) Few minutes ambient temperature transients do not engage the derating owing to the thermal inertia of the system. Overloads may anticipate derating.			
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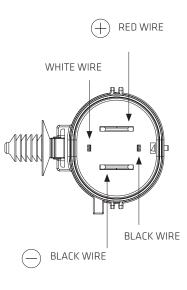
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PERFORMANCE AT MAXIMUM SPEED



CONNECTOR AND WIRES

152 mm



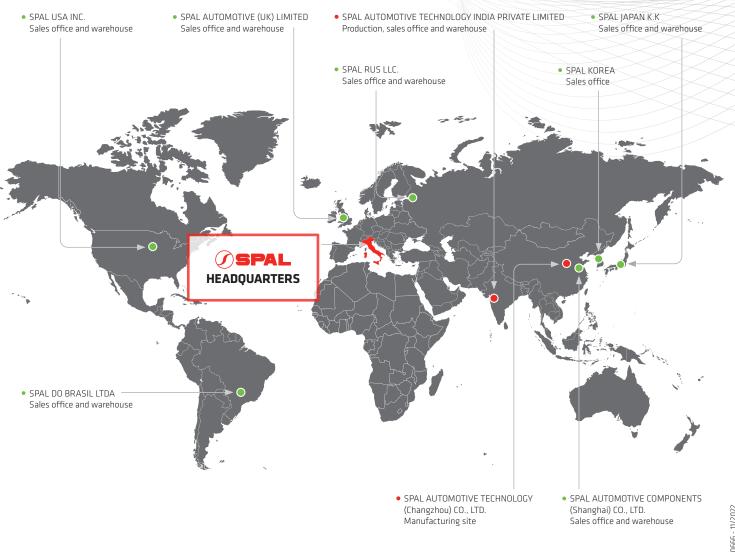
PWM Interface Version

GLOBAL footprint subsidiaries

The SPAL team has an international presence with subsidiaries and offices worldwide.

The location of subsidiaries are carefully co-ordinated to optimize the distribution and marketing of **SPAL** products with customer service and distribution centers based close to key customers.





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