generations of knowledge

MAGNETIC DRIVE ELECTRIC WATER PUMP



SPECIFICATION & TECHNICAL INFORMATION



Designed to the highest standards Built to deliver



Voltage range 18V-32V

Up to 40,000 hours motor life



>2bar maximum System Pressure



Compatible with de-ionised water



Suitable for fuel cell application

Compatible with BTMS & electric motor cooling



MAGNETIC DRIVE ELECTRIC WATER PUMP RANGE 5A-6792 (Base Model)

For superior reliability, low maintenance and high flow vs pressure performance for your hybrid, electric, hydrogen or internal combustion application, our Magnetic Drive Electric Water Pump is your ideal solution.

Magnetic Drive Electric Water Pump provides you with a robust and reliable solution that uses advanced magnetic drive technology to circulate coolant through the pump head and around the circuit.

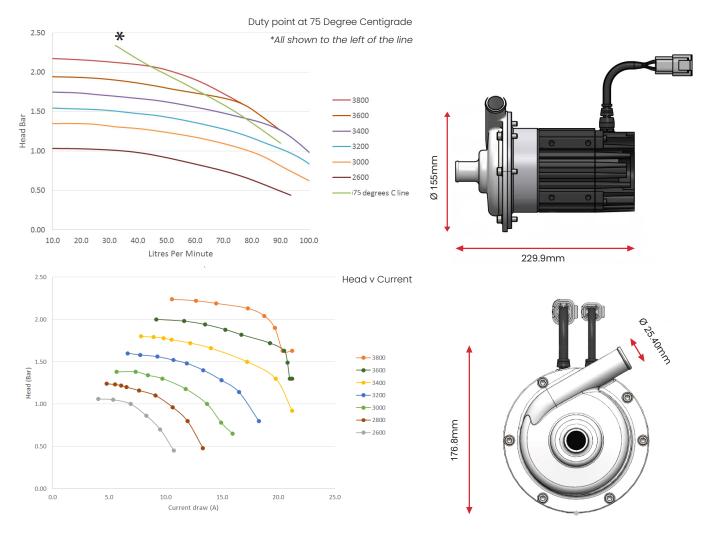
Its heavy-duty and high-strength magnetic coupling means no connection between the electric motor shaft and the impeller is required, removing the need for a seal – and significantly reducing the risk of coolant leakage – alongside removing the need for a lubricant.

FEATURES

- High flow/ pressure at low pump speed
- Can be mounted in various orientations
- Up to 40,000 hour life (motor)
- Extended warranty options
- Extremely robust design
- Quiet operation
- Various methods of control
- Corrosion resistant
- Integrated controller & power electronics
- Brushless DC permanent magnet motor
- De-ionised water compatible
- No mechanical seal
- Reduced maintenance
- 3Nm magnet

- No media function run dry protection
- Heavy duty bearings
- EMC certified
- Integrated voltage protection
- Integrated thermal protection
- Standalone/ PWM/ CAN control configurations
- Motor manufactured to Class F temperature
 rating
- Multiple pump operation on single CAN network through addressing
- Heavy-duty magnet coupling

5A-6792 PERFORMANCE & SIZE



CONFIGURATION AND CONTROL

Easy configuration

1

PC-based app to configure the pump (free app)

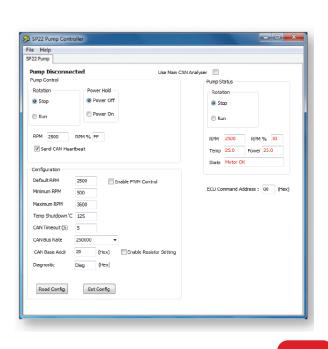
- 2 Run the pump for test purposes
- 3

Used in conjunction with CAN interface

Easy control



Enquire today



TECHNICAL SPECIFICATIONS

	MINIMUM	TYPICAL	ΜΑΧΙΜυΜ	UNITS
Voltage	18	27.2	32	V DC
Current	-	16	19	А
Target life	10,000	-	40,000	Hours
Fluid temperature	-20	-	75	°C
Ambient temperature	-40	-	85	°C
Storage temperature	-40	-	95	°C
Wetted materials	Cast aluminium & stainless steel			
Pressure	-	1.6	2.2	bar
Flow rate	-	45	100	I/min
Motor IP	-	-	69K	IP
Weight	-	4.5/ 9.9	-	kg/lb

TECHNICAL PARAMETERS

Geometry	X = 229.9mm Y= 176.8mm Z= 155mm		
Core materials	Aluminium body, aluminium head and brushless motor		
Connectors	DTM and DTP connectors 6 and 4 Pin, heavy duty vehicle approved cable		
Fuse size	25A recommended		
Current / Maximum current	Rated current 16A / Maximum self-regulating at 19A, operational 3A - 17A		
Flow / Maximum flow	Rated 45 I/min (11.8 US gpm) / Maximum 120 I/min (32.5 US gpm)		
Pressure / Maximum pressure	Rated 1.6 bar (24 psi) / Maximum 2.2 bar (33 psi)		
Inlet pressure	Grayson Thermal Systems Electric Pump requires inlet pressure greater than +0.03bar (+0.45psi) at the operating speed under all operating conditions		
Weight	4.5kg/ 9.9lb		
Motor life	Up to 40,000 hours design life		
Head orientation	170° x 2 options via inbuilt motor mountings, please ask advice for other options		
Outlet size	25.4mm O.D. (1") / 20mm I.D. (3/4")		
Ambient temperature	-40 to 85°C		
Voltage	24V, (operational range 18V - 32V) (Absolute maximum) Optimised to 27.2 V DC		
Relevant standards	J1939, ISO7637, ISO16750, IP69K		
Testing	HALT (Highly Accelerated Life Testing). Including arduous cold, hot and vibration testing from -60°C to 125°C combined with vibration inputs from 2.5g RMS to 11.45g RMS		
Control capability	CAN J1939 / PWM / Standalone		
Electronics	Fully encapsulated, protected against voltage transients and reverse polarity connection		
Storage temperature -40 to 95°C			
No media function	Run Dry Protection		