We power freedom.

MAGNET-MOTOR
A RENK GROUP COMPANY

HYBRID MOBILITY

PMC05

/ Power Management and Control Unit



Technical Information (dependent on variant)

General	
Ambient temperature range	-32 to +71 °C
Level of protection	IP 54
Dimensions	197 L x 158 W x 60 H mm
Volume with connection area	2.9 dm^3
Volume without connection area	1.6 dm^3
Weight	1.3 kg
Shock resistance dimensions x/y/z	8/5/10 g11ms
Electrical data	
Power supply	15 to 32 VDC
Maximum power consumption processing unit @ 24 VDC	7.5 W
Maximum power consumption with all digital outputs @ 24 VDC	36 V
Interfaces	
14 x digital input (15 kΩ input resistance)	24 VDC
12 x digital output (high side switch) 1 channel / all channels	max 200/1,000 mA
4 x PWM input (needs NPN open collector as source)	
2 x PWM output NPN open collector, max frequency 1,000 Hz	min/max 5/30 mA
3 x analog input (for potentiometer as voltage divider)	min/max 0/4.09 VDC
2 x analog output, potential-free, externally supplied (for Bosch Engine Controller)	min/max 0.6/4.6 VDC
1 x frequency output (complementary, source US-2 V, sink 0.5 V) 1 x CAN fiber-optic (max 6 members, if V24 is not used) 2 x CAN wired ISO11898 4 x V24 fiber-optic (if not used for CAN)	max 30 mA 50 kHz 660 nm ISO11898
1 x Ethernet interface 100 Base-TX	IEEE802.3u
1 x standby voltage input 3 to 32 VDC for RTC	min/max 0.00055/3.5 mA
Electrical interface information	0019339
Mechanical interface information	0014817

Product benefits

- Magnet-Motor's Power Management and Control (PMC) unit manages communications, energy and power flow in all of L3Harris Magnet-Motor's propulsion and energy conversion systems. It acts as the communications hub between all L3Harris components and connects externally with the vehicle or vessel.
- With a broad range of digital and analog interfaces, the PMC offers maximum flexibility and connectivity for a wide variety of applications.







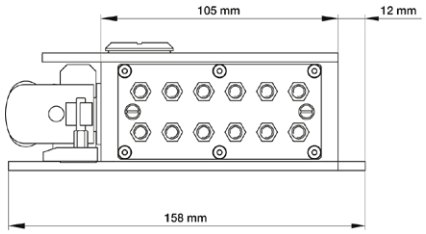
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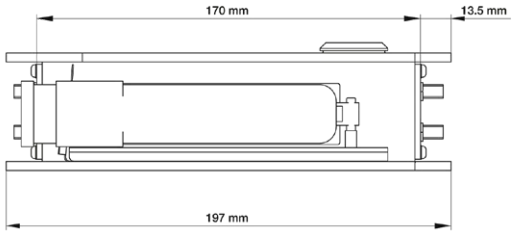
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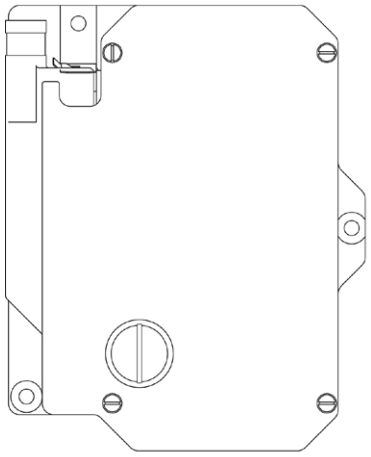
PMC05

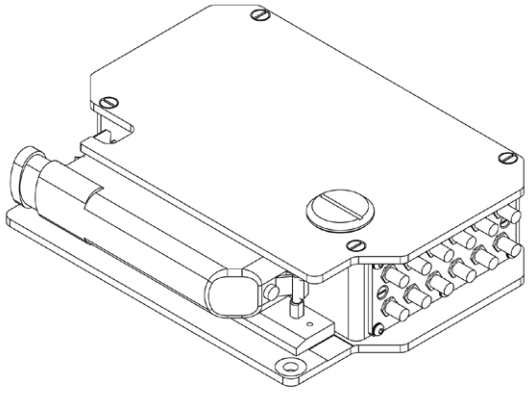
Technical Characteristics

- Digital and analog I/Os
- Powerful memory inside
- Can be programmed to any application in modern electro mobility
- Small footprint ensures that it can be installed in many locations on your platform









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