

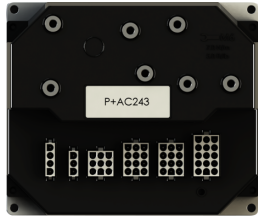


P+AC243

24V AC Drive 300 AMPS
24V DC Pump 300 AMPS

Product Highlights

- Controls 1 AC drive motor and 1 DC Pump motor
- Multiple speed sensor configuration



TRIONIC
vehicle controls

General Features

- Controls either DC Pump or a PM steering motor
- Controls 1 AC drive motor
- AC, PMAC (IPM, SPM), BLDC motor compatible
- Absolute Sin Cos sensor inputs
- Encoder X Y Z sensor inputs

Technical Data

Power Supply	24V	16 to 33 Vdc	Under and Over Voltage shutdown Reverse battery protected
Pump continuous current	300A		Current limit protects motor
PWM frequency	15 KHz		
AC motor current	300A		Protected from power wiring errors
PWM frequency	10 KHz		
Integral tilt sensor	+/-0 to 10°		$\sqrt{(x^2+y^2)}$
Safe ON/OFF power outputs	4	3A	Automotive spec. protected drivers
Safe PWM power output	3	3A	Automotive spec. protected drivers
Low side output	4	2A	Automotive spec. protected drivers
Digital inputs	15	1.25KΩ	Low impedance eliminates moisture problems
Safe analog inputs	5		
Analog input	1	0-5 Vdc	Protected from wiring errors
Water proof	IP67		
Ambient working temperature	-40 to +50°C		Controller must be mounted to vehicle frame to provide heatsink
Overall Dimensions	7.9" x 6.7" x 2.7" 200 x 170 x 68 mm		L x W x H

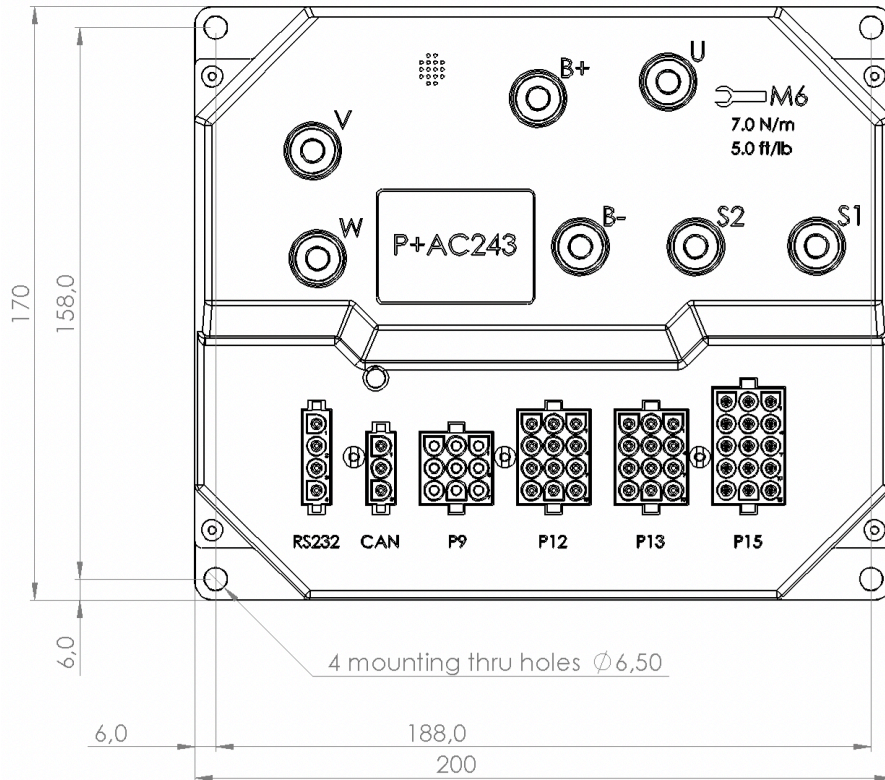
AC motor plug			
Sensor supply	2	12V & 5V	
ON/OFF power outputs	1	3A	Automotive spec. protected drivers
Digital inputs	3	X Y Z	Low impedance eliminates moisture problems
Analog inputs	3	Sin, Cos, Temp	0.5-4.5 Vdc, protected from wiring errors



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24V AC Drive 300 AMPS
24V DC Pump 300 AMPS

Dimensions



Overall Dimensions
7.9 max" x 6.7 max" x 2.7"
200 x 170 x 68 mm

Mounting Instructions

The P+AC243 control module requires special installation due to its integral tilt sensor. The module must be mounted perpendicular to the ground, with the connectors at the bottom. To achieve full power capability, the base plate should be bolted to a large metal part of the chassis with 4 of M6 x 17mm (min) Bolts oriented at 0° or 90° to the direction of travel.