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A4001 Inverter



LV Connection

Connector Model (Inverter Side)	Connector Model (Harness Side)	Pin No.	Name	Description	Recommended Diameter Wire
		1	12V+	From Vehicle Wiring Harness	0.5mm² / 500 VDC / High Temp / two core twisted pair / Shield/ multi branch
		3	GND		
		7	EXC+		
		8	SINL-		
	9	COSL-			
	13	CAN_Shield			
AMP 35	AMP 35 AMP 35	14	CAN H	From Motor Wiring Harness	0.5mm² / 500 VDC / High Temp / two core twisted pair / Shield/ multi branch
776231-1 776164-1		15	CAN L		
	19 20 21 23 24 35	19	EXC-		
		20	SIN+		
		21	COS+		
		23	Temp+		
		24	Temp-		
		35	35		

HV Connection

Connector Model (Inverter Side)	Connector Model (Harness Side)	Pin No.	Name	Description	Recommended Diameter Wire
PL00X-300	PL18X-300-50	+	DC Bus Positive	High Ter	50mm² / 800 VDC /
PL00Y-300	PL18Y-300-50	-	DC Bus Negative		
PL00U-300	PL18U-300-50	U	Motor Phase U		High Temp / Shield/
PL00V-300	PL18V-300-50	V	Motor Phase V		multi branch
PL00W-300	PL18W-300-50	W	Motor Phase W	Friase Corillectors	

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Performance



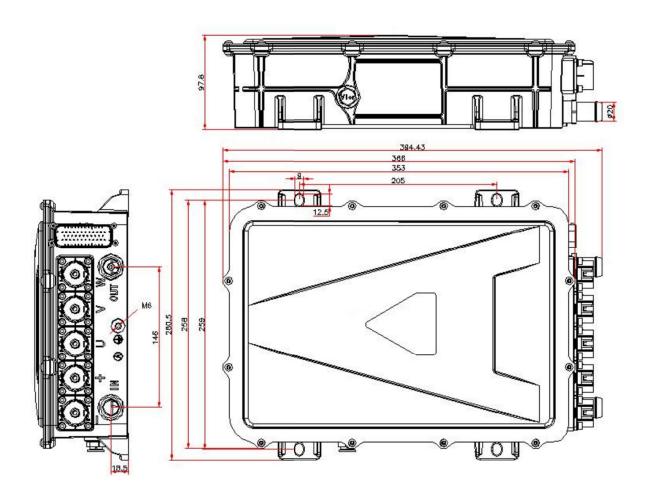
Electrical Specification	Unit	
Туре		3-Phase AC Motor Controller
Applications		Automotive Motorspot, Off-Highway, Motorcycle, Passenger Vehicle, Commercial Vehicle, Rail, Marine and Power Generation
DC Voltage Range	VDC	250 - 420
Maximum Phase Current	Arms	410
Continous Phase Current	Arms	220
Max Efficiency	%	98
Max Capacity	kVA	150
Rated Capcity	kVA	90
Phases		3
Rotor Position		Resolver

Mechanical Specification	Unit	
Height	mm	97.8
Width	mm	280.5
Length	mm	394.43
Mass	kg	11.2
Protection Level		IP67

Thermal Specification	Unit	
Coolant Method		Water Ethylene Glycol
Coolant Flow Rate	LPM	8 - 16
Working Temperature	°C	-45 to 85
Storage Temperature	°C	-45 to 85
Temperature sensor		PT1000



Mechanical Overview



Explore inetictraction.com to design your drive system with multiple configurations, matched motors, controllers and gearboxes.