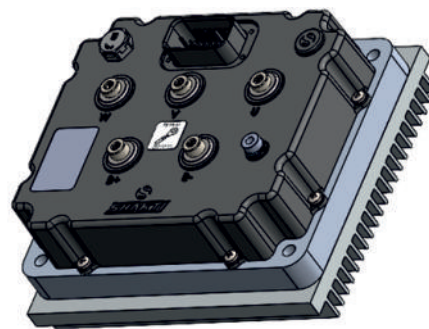
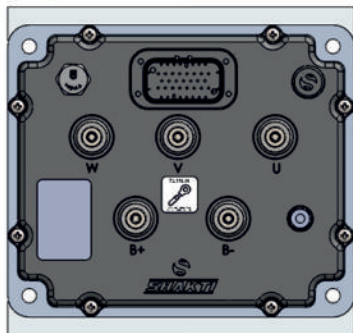




ENHANCE YOUR DRIVE WITH INNOVATIVE EV SOLUTIONS

Motor Control Unit 3 Wheeler



MOTOR CONTROL UNIT 3 WHEELER

ABOUT THE PRODUCT

The Shakti EV Controller is a robust and efficient solution designed to enhance the performance of electric three-wheelers segments. Engineered with advanced features, this controller ensures optimal motor performance and safety. Its natural cooling system and IP67 ingress protection rating makes it highly durable and suitable for diverse environments. The Shakti EV Controller comes with CAN communication compatibility and provides stable, efficient and smart control performance, meeting the demands of modern EV mobility and a sustainable future.

SPECIFICATIONS

PARAMETERS	MCU – 3W		
	8600000006 /8600000028	8600000019 /8600000029* /8600000030*	8600000023 /8600000031#
INPUT			
Voltage	48V/60V / 72V (36V-84V)		40-72 V
Max Input Current	200A	210A	65A
Maximum Power	10000 W	14000 W	3000 W
OUTPUT			
Nominal AC Voltage range	0-50 VAC	0-60 VAC	0-42 VAC
Frequency	0-800 Hz	0-800 Hz	0-500 Hz
Max AC Current	365 A	460 A	190 A
Power Factor Range	0.8 - 1		
Connection Phases	3 phase only		
Max Efficiency	> 95%		> 90%
OTHER INFO			
Motor Type	Induction / IPMSM	Induction / IPMSM / SYRM	IPMSM
Communication Protocols	CAN		CAN / LIN
Cooling Method	Air forced Cooling		Natural Cooling
Operating Temperature Range	-25°C to 65°C		-20°C to 60°C
Pollution Degree	PD3		
IP Rating	IP 67		
Noise	< 20 dBA		
Position Feedback	Encoder		
Mounting	Horizontal Tentative		
Dimensions (L*W*H)	(242mm X187mm X157.65mm) ± 1.50	(190mm X111mm X172mm) ± 1.50 (340mm X13mm X80mm) ± 1.50 #	
Weight	4 Kg	5.3 Kg	1.3 Kg / 2.2 Kg #
Protection	Short circuit, Under voltage/ Over Voltage/ Motor and Controller Temperature fault.		
Precharge Contractor	Required		NA
* 86-29/30/31 are upcoming products. Refer to below table for motors.			

Material Code	Motor Type
8600000006/ 8600000019	Induction
8600000028/8600000029/8600000023/8600000031	IPMSM
8600000030	SYRM

CONNECTOR DETAILS :

Connector Name	Qty	Mating Part Number	Mating Part Description
23 Pin Connector	1	c-770680-3-l-3d	Automotive Connectors 23 POS AMP SEAL ASSY

KEY FEATURES:

1. Parking and drive modes functionality.
2. Multiple speed modes support.
3. Vector control with speed sensor integration.
4. High Brake Mode support.
5. Throttle control functionality.
6. Forward and reverse direction control.
7. Regenerative braking control.
8. Hill Assist Control.
9. Cruise Mode.

APPLICATION:

1. Specifically designed for electric 3-wheelers.

PROTECTION:

1. Short circuit protection.
2. Motor over temperature.
3. Controller over temperature.
4. DC Bus over voltage.
5. DC Bus under voltage.
6. Throttle signal error.
7. Hall Sensor signal error.

TOLL FREE NO. 1800 103 5555

SHAKTI EV MOBILITY PRIVATE LIMITED

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Group Company - **SHAKTI PUMPS (INDIA) LIMITED**
www.shaktipumps.com

Authorised Dealer/ Distributor :