

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-wheeler 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 | SHAKTI EV CONTROLLER | | |
|-----------------------------|--------------------------------|-----------------------------------|--------------------------------|
| | 8600000006 | 8600000019 | 8600000023 |
| INPUT | | | |
| Voltage | 48V/60V / 72V (36V-84V) | 40-72V | |
| 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 | | | |
| Communication Protocols | CAN | CAN / LIN | |
| Cooling Method | Natural Cooling | 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 | | |
| Dimensions (L*W*H) | (193mm X 183mm X 106mm) ± 1.50 | (242mm X 187mm X 157.65mm) ± 1.50 | (190mm X 111mm X 172mm) ± 1.50 |
| Weight | 4 Kg | 5.3 Kg | 1.3 Kg |

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.

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Group Company - **SHAKTI PUMPS (INDIA) LIMITED**
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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.

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