



STARS CO., LTD.

Datasheet

ACIM350

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Description:

ACIM-Series motor controllers are special designed for AC induction motor (called ACIM motor). ACIM-series motor controllers are designed to control AC induction motor in battery power traction and pump applications. The ACIM-series motor controller operate voltage from 24 to 96VDC and output current from 350 to 300Amps, the controller is suitable for rating 2 – 7 kW AC induction motors.

Applications:

The controller designed in programmable system it means the controller parameters can be programmed by different applications. The applications include high power motorcycle, scooter, pallet truck, scissor lift, stackers, sweeper/ scrubber machines, industrial vehicles, person carrier, electric tricycle, golf car, electric boats and light electric car.

General Features include:

- Suitable for AC induction motor
- Low noise, high efficient and newest driving technology
- Programmable motor controller by HP88 handheld programmer
- FOC and Sine wave motor controller
- Simple size and high weight/power density
- Three half bridge design which provide smooth and silent operation
- Four quadrant EV motor control technology
- Regenerative braking allows shorter stopping distances, increases battery charge and driving range, and reduces motor heating
- Anti-roll-back/Anti-roll-forward function
- Real time current control
- Motor stall protection
- Tyco waterproof 35-pin AMPSEAL connector
- CANopen function
- High pedal disable function (HPD)
- Real time status LED
- Work with STARS SmartView EV display
- 2 individual PWM drivers for main contactor and electronic magnetic brake
- EMR/Belly switch available
- Brake throttle available
- Over/Low voltage protection, Motor temperature protect, Over/Under temperature protection

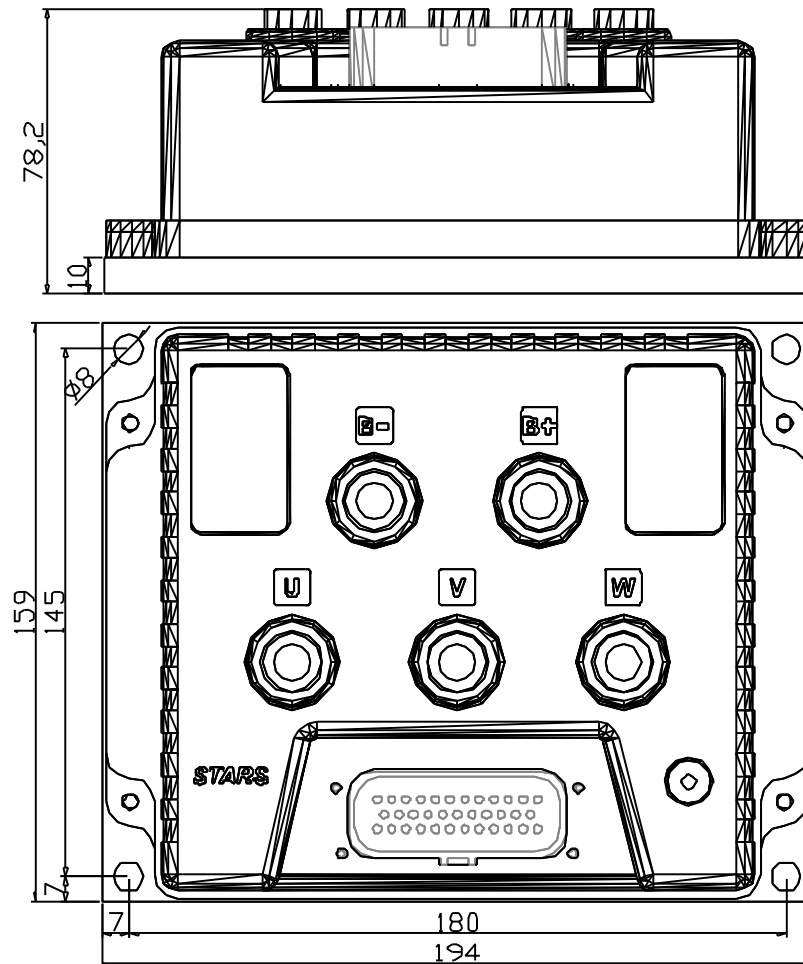
Models :

Model	ACIM350-2435	ACIM350-4835	ACIM350-7230	ACIM350-9620
Voltage	24	48	72	96
Min Voltage (VDC)	32	30	60	75
Max Voltage (VDC)	15	60	85	110
Max. Current (A)	350	350	300	200

Technical Data:

Dimension(mm)	159 X 194 X 78.2 mm
Weight(kg)	1.9
Efficiency	98%
Connector	Tyco 35-pin AMPSEAL connector (Tyco p/n 776231)
Algorithm	FOC and Sine wave
Communication	CAN open
Contactora coil	Line contactora coil control by controller
EM brake coil	Motor EM brake control by controller
PWM driver	4, 2 for Contactora and EMB, 2 default no use
Encoder	Hall speed sensor
IP rating	IP54 (IP65 option)
Function	Programmable controller
Drive throttle type	0-5k, 0-5V , CANbus of throttle support
Brake throttle type	0-5k, 0-5V , CANbus of throttle support
Install position	Clean and dry
Cooling	Air Cooling
Isolation	Electrical isolation to heatsink: 500 V ac (minimum)
Storage Temp.	-40 to 80 °C
Operation Temp.	-20 to 80 °C
Motor Temp.	-20 to 120 °C
Motor Temp. Sen.	TY-84/PT1000

Dimensions:



Typical wiring:

