



**STARS CO., LTD.**

**Datasheet**

# ***ACIM600***

Publication: **ACIM600-128KB-Series**

Edition: **2022**



## **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 48 to 96VDC and output current from 400 to 600Amps, the controller is suitable for rating 8 – 18 kw, maximum 40kW AC induction motors.

## **Applications:**

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

## **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 and Modbus communication support
- 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



# ACIM600

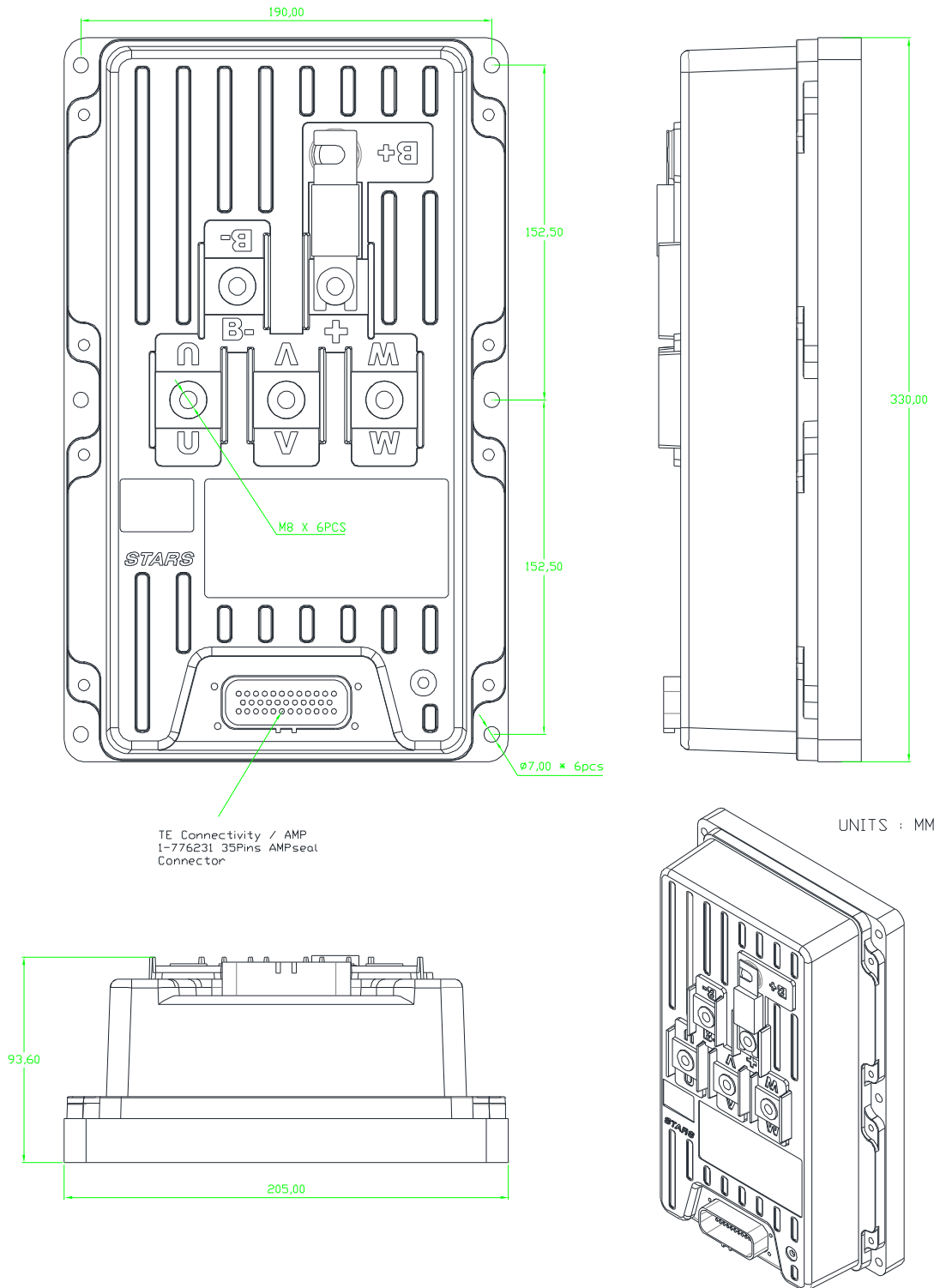
## Models :

Model	ACIM600-2460	ACIM600-4860	ACIM600-7255	ACIM600-9650
Voltage	24V	48VDC	72V	96VDC
Operation Voltage (VDC)	12-32V	30-60V	48-95V	80-120V
Max. Current (A)	600A	600A	550A	500A

## Technical Data:

Dimension(mm)	330 X 205 X 94
Weight(kg)	6.5
Efficiency	98%
Connector	Tyco 35-pin AMPSEAL connector (Tyco p/n 776231)
Algorithm	FOC and Sine wave
Communication	CAN open / Modbus
Contacting coil	Line contactor coil control by controller
EM brake coil	Motor EM brake control by controller
PWM driver	4, 2 for Contactor and EMB, 2 default no use
Encoder	Hall position encoder
IP rating	IP54 (IP65 option)
Function	Programmable controller
Drive throttle type	0-5k, 0-5V , CANbus, Modbus
Brake throttle type	0-5k, 0-5V , CANbus, Modbus
Install position	Clean and dry
Cooling	Air Cooling
Isolation	Electrical isolation to heatsink: 500 V ac (minimum)
Storage Temp.	-40oC to 80 oC
Operation Temp.	-20oC to 80 oC
Motor Temp.	-20oC to 120 oC
Motor Temp. Sen.	TY-84/PT1000

## Dimensions:



## Typical wiring:

