Abstract

An AC motor controller, a laminated busbar assembly, and a manufacturing method thereof relate to the field of electrical devices. The AC motor controller includes laminated busbar assembly (1), controllable switching element assembly, and filter element assembly. The laminated busbar assembly includes a substrate (110), a positive current metal plate (120), a negative current metal plate (130), and an output current metal plate (140) which are arranged in a laminated manner. In the insertion and tin soldering process, the processing of the AC motor controller is completed by two steps: passing the first pin (121) of the positive current metal plate, the second pin (131) of the negative current metal plate, the third pin (141) of the output current metal plate, the controllable switching element assembly, and the filter element assembly through the pad hole group of the substrate, and then performing soldering in one-off manner, so the production is efficient. As a result of the modularization arrangement of the laminated busbar assembly, the present invention has good expansibility and can be widely applied to other electronic control devices.