

Abstract: One of the important parts for the polarized magnetic system design is the equivalent processing of the permanent magnet (PM) in polarized relay, which affects the design accuracy of the system directly. Based on the combined subsection permanent magnet (CSPM) in the condition of the open magnetic circuit, this paper concludes that the starting points of PM are different, by setting up the equivalent magnetic circuit, and analyzing the relationship between the starting points of PM in theory. Meanwhile, it provides the method of solving the starting points. Finally, the conclusion is analyzed and verified by the example.

Keywords: relay, permanent magnet, polarized magnetic system, starting point