

CIRCUIT INTERRUPTER WITH A MAGNETICALLY-INDUCED AUTOMATIC
TRIP ASSEMBLY IMPLEMENTING A SPRING CLAMP

ABSTRACT

A circuit interrupter including a housing, separable main contacts disposed in the housing, and an operating mechanism disposed in the housing and interconnected with the contacts. A trip mechanism is disposed in the housing and has an automatic trip assembly that selectively generates a tripping operation to cause the operating mechanism to open the contacts upon a predetermined current threshold. The automatic trip assembly includes a magnetic yoke, an armature, and an electrical terminal. The magnetic yoke has pivot supports on which are positioned pivot arms of a head portion of the armature. A clamp member applies a clamping force to the head portion of the armature in a direction to normally rotationally displace a bottom portion of the armature away from the yoke and the terminal.

Fig. 1