

Title (en)
CIRCUIT BREAKER FOR WIRING

Title (de)
SCHUTZSCHALTER FÜR VERDRAHTUNG

Title (fr)
DISJONCTEUR DESTINÉ À UN CÂBLAGE

Publication
EP 2806448 A1 20141126 (EN)

Application
EP 12865704 A 20121221

Priority
• KR 20120005249 A 20120117
• KR 2012011307 W 20121221

Abstract (en)
A circuit breaker includes a fixable contact unit , a movable contact unit opposing the fixable contact unit, a switch unit actuating the movable contact unit and a trip unit blocking a main circuit through the switch unit when an abnormal current occurs. The trip unit includes an instant dial and an instant spring, the instant dial including a magnet, an armature opposing the magnet, a temporary adjustment unit, an instant bar actuating the temporary adjustment unit and a cam being in contact with the instant bar and the instant spring connecting one side of the temporary adjustment unit and one side of the armature. The cam includes a plurality of local depressions, each corresponding to an instantaneous value and adjusts a moment arm length between the instant spring and the armature through the plurality of the local depressions. Therefore, the circuit breaker may adjust an instantaneous current as a predetermined percent of a rated current through a simple operation of an instant dial and the instantaneous current being a main circuit blocking current when an abnormal current occurs in a circuit breaker, may adjust a moment arm length between an instant spring and an armature through a plurality of local depressions, each corresponding to instantaneous value of an instant dial and adjusting an instantaneous current where a trip occurs as a wide percent range of a rated current and may detect an abnormal current when an abnormal current occurs in a circuit breaker to automatically actuate a switch and to block a main circuit for main circuit protection.

IPC 8 full level
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CPC (source: EP KR)
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