

Title (en)
SHUNT CIRCUIT FOR THE TRIP DEVICE OF A CIRCUIT BREAKER

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Application
EP 83401117 A 19830602

Priority
FR 8209993 A 19820607

Abstract (en)
[origin: EP0097557A1] 1. Low-tension circuit breaker with a moulded insulating case (10) surrounding an operation mechanism associated with an automatic trip device and a manual control lever (16), each pole of the circuit breaker comprising : at least a pair of separable contacts (22, 24), a pair of connection terminals (18, 20), an extinguishing chamber (26) of the arc drawn between the separated contacts, a main trip circuit comprising a thermal trip device with a bimetal strip (30) and an electromagnetic trip device (32) with a coil (38) able to cooperate, in the event of an overload or a short-circuit, with a lock (46) of the mechanism for an automatic opening of the contacts, and a shunt circuit (66) connected in parallel on the main trip circuit, said shunt being constituted of a metallic conductive material, which derives one part of the rated current of each pole, the other part flowing through the bimetal strip (30) and the coil (48), characterized by the fact that the shunt circuit (66) of the rated current is constituted of a part of the ferromagnetic frame (50) enframing the coil (48) of the electromagnetic trip device (32).

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