

Title (en)

POLARISED ELECTROMAGNETIC RELAY WITH MAGNETIC LATCHING FOR A TRIP DEVICE OF A CIRCUIT BREAKER

Publication

EP 0187055 B1 19890712 (FR)

Application

EP 85402117 A 19851105

Priority

FR 8418009 A 19841122

Abstract (en)

[origin: US4660012A] The invention relates to a polarized electromagnetic relay with magnetic latching and sliding armature. The magnetic circuit comprises a tubular frame enclosed by two flanges (22, 24), a permanent magnet (14) with axial magnetization fitted between one (22) of the flanges and a flux-diverter (26), and a cylindrical trip coil (30) mounted on a bushing inside the frame (20). The other flange (24) is fitted with a tubular sleeve (46) made of ferromagnetic material coaxially surrounding a part of the moving armature (16) with a uniform radial air gap (jl) interposed. The axial overlapping distance (L) of the armature (16) by the sleeve (46) in the latched position of the relay (10) is greater than the thickness (11) of the flange (24) and/or than that of the frame (20).

IPC 1-7

H01H 71/32

IPC 8 full level

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CPC (source: EP US)

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Cited by

US5126710A; EP1063666A3; DE4344143A1; DE4344143B4; US5387892A; DE4017743A1; CN101944457A; WO9202944A1

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US 4660012 A 19870421; AT E44631 T1 19890715; AU 5025185 A 19860529; AU 577996 B2 19881006; CA 1244860 A 19881115; DE 3571528 D1 19890817; EP 0187055 A1 19860709; EP 0187055 B1 19890712; ES 548563 A0 19861116; ES 8700794 A1 19861116; FR 2573570 A1 19860523; FR 2573570 B1 19880527; HK 113593 A 19931029; JP H0516127 B2 19930303; JP S61128436 A 19860616; PT 81448 A 19851201; PT 81448 B 19870930; SG 71492 G 19921204; ZA 858730 B 19860730

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