

Title (en)
ELECTROMAGNETIC RELAY AND METHOD FOR ITS MANUFACTURE

Publication
EP 0140284 B1 19880713 (DE)

Application
EP 84112526 A 19841017

Priority
• DE 3338208 A 19831020
• DE 8411399 U 19840411

Abstract (en)
[origin: EP0140284A1] 1. Electromagnetic relay with, disposed in an axially continuous aperture (3; 33) in a coil body (1; 31), a tongue-shaped armature (6; 36) which has an attachment end (6a) fixed in the region of a first coil body flange (4; 34), while its free end (6b) is, in the region of the second coil body flange (5; 35), switchable between two pole plates (8, 8'; 38, 38'), a flux transfer plate (11; 41) being constructed at the fixing end of the armature (6; 36), the pole plates (8, 8'; 38, 38') resting flat on the end face of the second coil body flange (5; 35) and being maintained at a preset contact gap by abutment faces on the coil body flange, a sealing foil (9, 12; 39, 42) being disposed on the end faces both of the first coil body flange (4; 34) and also of the second coil body flange (5; 35), characterised in that there is, formed on the end face of the first coil body flange (4; 34) and enclosing the coil body aperture, a marginal bead (17; 47) which is discontinued only at two oppositely disposed places by a respective connecting web (21; 51) extending between armature (6; 36) and flux transfer plate (11; 41), the connecting webs (21; 51) finishing flush with the bead surface, forming therewith a plane surface to carry a sealing foil (12; 43), and in that the bearing surfaces for the pole plates (8, 8'; 38, 38') are formed on the second coil body flange (5; 35) by spacing projections (23; 53) which protrude on two opposite sides of the coil body aperture (3; 33) to a height beyond the end face of the coil body flange (5; 35) which is equivalent to the thickness of the pole plates (8, 8'; 38, 38'), and in that the pole plates (8, 8'; 38, 38') are of substantially flat construction and have in each case an inner edge bearing on both spacing projections (23; 53) and an outer edge braced on a retaining projection (24; 54) provided on the rim of the coil body flange (5; 35), in a manner such that the two pole plates (8, 8'; 38, 38') likewise form with the two spacing projections (24; 54) a plane supporting surface for a sealing foil (9; 39) which engages continuously around the coil body aperture (3; 33).

IPC 1-7
H01H 49/00; **H01H 51/22**; **H01H 50/04**

IPC 8 full level
H01H 49/00 (2006.01); **H01H 50/02** (2006.01); **H01H 50/04** (2006.01); **H01H 51/22** (2006.01)

CPC (source: EP)
H01H 49/00 (2013.01); **H01H 50/023** (2013.01); **H01H 51/2254** (2013.01); **H01H 2009/0285** (2013.01)

Cited by
DE3620942A1; GB2167238A; EP0198492A3; EP0334336A1; EP3059754B1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0140284 A1 19850508; **EP 0140284 B1 19880713**; DE 3472732 D1 19880818

DOCDB simple family (application)
EP 84112526 A 19841017; DE 3472732 T 19841017