

Title (en)

A circuit for the protected supply of an electrical load

Title (de)

Schaltung zur geschützten Versorgung einer elektrischen Last

Title (fr)

Circuit pour l'alimentation protégée d'une charge électrique

Publication

EP 0806781 B1 20020911 (FR)

Application

EP 97400951 A 19970428

Priority

FR 9605956 A 19960510

Abstract (en)

[origin: EP0806781A1] The load (M) may be a single-phase or polyphase motor fed from a three-phase network (U,V,W) via an electromechanical switch (20) and an inverse-parallel thyristor switch (30) operated by a controller (40), which energises the coil (53) of a shunt contactor (50) connected in series with a resistor or transformer (60) across the thyristor switch. The resistor or transformer establishes a DC voltage (V) across the thyristor switch when the contactor is closed. Its impedance is chosen such that the thyristor switch is rendered conductive when an overcurrent appears and closes the shunt.

IPC 1-7

H01H 9/54

IPC 8 full level

H01H 9/54 (2006.01); **H01H 73/00** (2006.01); **H02H 9/00** (2006.01); **H01H 89/06** (2006.01)

CPC (source: EP US)

H01H 9/542 (2013.01 - EP US); **H01H 9/548** (2013.01 - EP US); **H01H 89/06** (2013.01 - EP US)

Cited by

US7339288B2; NL1016791C2; ES2367936A1; CN108781046A; US10253742B2; WO0247100A1; WO2014029614A3; US7612471B2; US10873279B2; WO2017153098A1

Designated contracting state (EPC)

DE IT SE

DOCDB simple family (publication)

EP 0806781 A1 19971112; **EP 0806781 B1 20020911**; AU 2009897 A 19971113; AU 716799 B2 20000309; BR 9703106 A 19980630; CZ 142397 A3 19981216; CZ 293753 B6 20040714; DE 69715296 D1 20021017; DE 69715296 T2 20030612; FR 2748612 A1 19971114; FR 2748612 B1 19980619; TW 463440 B 20011111; US 5953189 A 19990914; ZA 973974 B 19971202

DOCDB simple family (application)

EP 97400951 A 19970428; AU 2009897 A 19970508; BR 9703106 A 19970509; CZ 142397 A 19970509; DE 69715296 T 19970428; FR 9605956 A 19960510; TW 86107571 A 19970530; US 85416497 A 19970509; ZA 973974 A 19970508