

Title (en)
STAR-TO-TRIANGLE SWITCHING ELEMENT

Title (de)
STERNDREIECKSCHALTER

Title (fr)
ELEMENT DE COMMUTATION ETOILE VERS TRIANGLE

Publication
EP 1163691 A1 20011219 (EN)

Application
EP 00923058 A 20000321

Priority
• SI 0000005 W 20000321
• SI 9900062 A 19990324

Abstract (en)
[origin: WO0057444A1] The invention refers to the star-to-triangle switching element that allows for switch-on, start-up and operation of asynchronous electromotors and successfully replaces the existing versions of contactor combinations for control of asynchronous motors with the power exceeding 4kW, which, however, does not limit its use elsewhere. The constructional concept of the switching element referred to in this invention provides for three independent positions, which is via the transmission elements transmitted into the contact section where the mobile support of flexible contacts with its movement closes the corresponding contacts, which first provides for electromotor power supply - star (Y) - with reverse connection to the star point, and upon the lapse of certain time, for power supply - triangle (D). This is achieved in such a way that the driving element consists of two fixed armatures (1) bearing, attached with special loops (3), the coils (4,5), separated by distance plates (6) that at the same time serve as a guide for the joint armature (2) with the opening (c) wherein fits the mobile metal support (7) in the way that the armature (2) is limited in its movement.

IPC 1-7
H01H 51/12; **H02P 1/32**

IPC 8 full level
H01H 50/20 (2006.01); **H01H 50/04** (2006.01); **H01H 50/14** (2006.01); **H01H 50/34** (2006.01); **H01H 50/54** (2006.01); **H01H 50/64** (2006.01); **H01H 51/06** (2006.01); **H01H 51/12** (2006.01); **H01H 51/00** (2006.01)

IPC 8 main group level
H01H 3/00 (2006.01)

CPC (source: EP)
H01H 51/12 (2013.01); **H01H 51/005** (2013.01)

Citation (search report)
See references of WO 0057444A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0057444 A1 20000928; AP 1312 A 20040930; AP 2001002292 A0 20011231; AT E258335 T1 20040215; AU 4323900 A 20001009; BG 105935 A 20020531; BG 64574 B1 20050729; CA 2367170 A1 20000928; CN 1350694 A 20020522; DE 60007846 D1 20040226; DE 60007846 T2 20041230; EA 200100986 A1 20020228; EP 1163691 A1 20011219; EP 1163691 B1 20040121; HK 1044221 A1 20021011; HR P20010698 A2 20030630; JP 2002540560 A 20021126; LT 2001091 A 20020527; LT 4962 B 20021025; LV 12800 A 20020220; LV 12800 B 20020620; PL 349973 A1 20021021; SI 20293 A 20001231; YU 67801 A 20060817

DOCDB simple family (application)
SI 0000005 W 20000321; AP 2001002292 A 20000321; AT 00923058 T 20000321; AU 4323900 A 20000321; BG 10593501 A 20010921; CA 2367170 A 20000321; CN 00805418 A 20000321; DE 60007846 T 20000321; EA 200100986 A 20000321; EP 00923058 A 20000321; HK 02104547 A 20020619; HR P20010698 A 20010924; JP 2000607239 A 20000321; LT 2001091 A 20010924; LV 010136 A 20010924; PL 34997300 A 20000321; SI 9900062 A 19990324; YU P67801 A 20010924