

Title (en)  
MOTOR DRIVE

Title (de)  
MOTORANTRIEB

Title (fr)  
ENTRAINEMENT A MOTEUR

Publication  
**EP 0963593 A1 19991215 (DE)**

Application  
**EP 98904049 A 19980109**

Priority  

- DE 19707548 A 19970226
- EP 9800091 W 19980109

Abstract (en)  
[origin: WO9838661A1] The present invention relates to a motor drive for a selective switch, a change-over switch or a moving coil, exhibiting a running-time monitoring function by means of additional mechanical contacts. Two additional monitoring contacts are provided in order to verify at different time intervals if the motor protection and the stepping relay are working in an orderly manner during a shift sequence when switching occurs as malfunction of said components could otherwise cause the motor drive to move into an undesired final position. The motor drive is shut down if monitoring reveals that one of the said components is not operating correctly.

IPC 1-7  
**H01H 9/00; H01H 47/00**

IPC 8 full level  
**H02P 29/02** (2016.01); **H01H 9/00** (2006.01); **H01H 47/00** (2006.01)

CPC (source: EP)  
**H01H 9/0005** (2013.01); **H01H 47/005** (2013.01)

Designated contracting state (EPC)  
AT DE ES FR GB SE

DOCDB simple family (publication)  
**WO 9838661 A1 19980903**; AT E208955 T1 20011115; AU 6208298 A 19980918; BG 103581 A 20000428; BG 63555 B1 20020430;  
BR 9807609 A 20000222; CZ 300299 A3 19991215; DE 19707548 C1 19980618; DE 59802142 D1 20011220; EP 0963593 A1 19991215;  
EP 0963593 B1 20011114; ES 2163250 T3 20020116; JP 2001512660 A 20010821; RO 120162 B1 20050930

DOCDB simple family (application)  
**EP 9800091 W 19980109**; AT 98904049 T 19980109; AU 6208298 A 19980109; BG 10358199 A 19990715; BR 9807609 A 19980109;  
CZ 300299 A 19980109; DE 19707548 A 19970226; DE 59802142 T 19980109; EP 98904049 A 19980109; ES 98904049 T 19980109;  
JP 53720698 A 19980109; RO 9900881 A 19980109