

Title (en)
STATUS MONITORING ASSEMBLY FOR MONITORING A STATE OF AN ELECTROMAGNETIC SWITCH AND ELECTROMAGNETIC SWITCH COMPRISING THE SAME

Title (de)
STATUSÜBERWACHUNGSANORDNUNG ZUR ÜBERWACHUNG EINES ZUSTANDS EINES ELEKTROMAGNETISCHEN SCHALTERS UND ELEKTROMAGNETISCHER SCHALTER DAMIT

Title (fr)
ENSEMBLE DE SURVEILLANCE D'ÉTAT POUR SURVEILLER UN ÉTAT D'UN COMMUTATEUR ÉLECTROMAGNÉTIQUE ET COMMUTATEUR ÉLECTROMAGNÉTIQUE LE COMPRENANT

Publication
EP 4391003 A1 20240626 (EN)

Application
EP 22398030 A 20221221

Priority
EP 22398030 A 20221221

Abstract (en)
The present invention relates to a status monitoring assembly for an electromagnetic switch 200 having a core 210 that moves, along a central axis of a working region 230, towards and away from a first operating position P1, and which comprises a pair of monitoring contacts 110, 120 to be arranged over an open side of the working region, facing the core contact surface 240, and designed to contact with the movable core 210 in the first operating position, thereby becoming electrically connected to each other, via the core. Each monitoring contact has an anchoring section 110a, 120a and a deflected section 110b, 120b deflected from the anchoring section by a contact angle. A support member 130 holds the monitoring contacts 110, 120 over an open side of the working region 230, facing the core 210. The deflected sections are designed to mechanically contact the contact surface of the core in the first operating position. It is also provided an electromagnetic switch comprising the status monitoring assembly.

IPC 8 full level
H01H 50/08 (2006.01); **H01H 50/54** (2006.01); **H01H 71/46** (2006.01); **H01H 1/18** (2006.01); **H01H 9/16** (2006.01)

CPC (source: EP)
H01H 50/08 (2013.01); **H01H 50/545** (2013.01); **H01H 71/465** (2013.01); **H01H 1/18** (2013.01); **H01H 9/167** (2013.01)

Citation (search report)
• [XAI] US 2013335174 A1 20131219 - KODAMA KAZUHIRO [JP], et al
• [A] DE 102015224658 A1 20170614 - DRAEXLMAIER LISA GMBH [DE]
• [A] EP 3432336 A1 20190123 - BYD CO LTD [CN]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4391003 A1 20240626

DOCDB simple family (application)
EP 22398030 A 20221221