

Title (en)

ELECTRONIC OVERLOAD RELAY AND ELECTROMAGNETIC SWITCH

Title (de)

ELEKTRONISCHES ÜBERLASTRELAIS UND ELEKTROMAGNETISCHER SCHALTER

Title (fr)

RELAIS DE SURCHARGE ÉLECTRONIQUE ET COMMUTATEUR ÉLECTROMAGNÉTIQUE

Publication

**EP 3790033 A1 20210310 (EN)**

Application

**EP 20193409 A 20200828**

Priority

JP 2019162258 A 20190905

Abstract (en)

An electronic overload relay includes a bus bar formed by a conductive metallic material, provided between an electromagnetic contactor and a load, or between a circuit breaker and the electromagnetic contactor, and a resistor part arranged between one end and the other end of the bus bar, and including a shunt resistor for detecting a value of a current flowing through the bus bar.

IPC 8 full level

**H01H 71/02** (2006.01)

CPC (source: CN EP KR)

**H01H 47/00** (2013.01 - CN); **H01H 71/0271** (2013.01 - EP); **H01H 71/08** (2013.01 - CN); **H01H 71/125** (2013.01 - CN); **H01H 71/18** (2013.01 - KR); **H01H 71/24** (2013.01 - CN); **H01H 2071/0278** (2013.01 - EP KR)

Citation (applicant)

- JP WO2005139333 A1
- JP 4738530 B2 20110803
- JP 2006332001 A 20061207 - MITSUBISHI ELECTRIC CORP

Citation (search report)

- [XAYI] GB 2462421 A 20100210 - DEEPSTREAM TECHNOLOGIES LTD [GB]
- [X] US 4346424 A 19820824 - HANSEN JAMES E
- [X] DE 102006025607 A1 20071129 - FRIEDRICH LUETZE GMBH & CO KG [DE]
- [Y] DE 19516723 A1 19961114 - KLOECKNER MOELLER GMBH [DE]

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3790033 A1 20210310**; **EP 3790033 B1 20220914**; CN 112447457 A 20210305; JP 2021040469 A 20210311; KR 20210029099 A 20210315

DOCDB simple family (application)

**EP 20193409 A 20200828**; CN 202010896314 A 20200831; JP 2019162258 A 20190905; KR 20200110446 A 20200831