Title (en)

METHOD AND DEVICE FOR SECURING REFRIGERATION COMPRESSORS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SICHERUNG VON KÄLTEVERDICHTERN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE SÉCURITÉ POUR COMPRESSEURS FRIGORIFIQUES

Publication

EP 2212632 A2 20100804 (DE)

Application

EP 08845288 A 20081031

Priority

- EP 2008009215 W 20081031
- DE 102007052532 A 20071101

Abstract (en)

[origin: WO2009056336A2] The invention relates to a universal method and a device for securing refrigeration compressors in refrigeration installations, enabling a high level of safety for switching on and operating various refrigerating installations, by taking into account all disturbances affecting the function of the refrigeration compressor. In the safety system for the at least one refrigeration compressor (6), the safety high-pressure limiter (1) and/or the high-pressure switch and/or the motor temperature/a posistor (3) and/or the compressor oil (4) and/or the liquid level (9) in the collector (10) and/or the suction pressure switch (5) are determined and evaluated simultaneously in a computer-controlled manner. In the event of a disturbance, the safety high-pressure limiter (1) immediately switches off the compressor (6) and the compressor cannot be automatically switched back on, and the high-pressure switch (2) immediately switches off the compressor and the compressor can be repeatedly automatically switched back on. A disturbance of the motor temperature/posistor (3) immediately switches the compressor off and the compressor cannot be automatically switched back on, a disturbance of the compressor oil (4) switches off the compressor (6) once a time delay has expired, and the compressor cannot be automatically switched back on, and a disturbance of the liquid level (9) in the collector (10) switches off the compressor (6) once a time delay has expired, and the compressor can be automatically switched back on. In the event of a disturbance, the suction pressure switch (5) immediately switches off the compressor (6) and the compressor can be repeatedly automatically switched back on, and a current disturbance is optically and/or acoustically displayed. The invention is suitable for all refrigerating installations.

IPC 8 full level

F25B 49/02 (2006.01); **F25B 49/00** (2006.01)

CPC (source: EP)

F25B 49/005 (2013.01); F25B 49/022 (2013.01)

Citation (search report)

See references of WO 2009056336A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009056336 A2 20090507; **WO 2009056336 A3 20090625**; DE 102007052532 A1 20090520; DE 102007052532 B4 20120322; EP 2212632 A2 20100804

DOCDB simple family (application)

EP 2008009215 W 20081031; DE 102007052532 A 20071101; EP 08845288 A 20081031