

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
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Application
EP 08845288 A 20081031

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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.

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