

Title (en)

A HERMETIC COMPRESSOR WEIGHT BALANCING ROTOR

Title (de)

HERMETISCHER GEWICHTSAUSGLEICHSROTOR FÜR VERDICHTER

Title (fr)

ROTOR D'ÉQUILIBRAGE DE POIDS DE COMPRESSEUR HERMÉTIQUE

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Application

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Abstract (en)

[origin: WO2020057822A1] The present invention relates to the brushless direct current electric motor (12) of a variable capacity hermetic compressor (2) wherein the permanent magnets (3) of the rotor (1) thereof are fixed at a plurality of planes. The present invention more particularly relates to the rotor (1) with permanent magnets (3) of the BLDC electric motor (12). The brushless DC electric motor (12) comprises a stator (13) and a weight balancing rotor (1). The weight balancing rotor (1) is composed of a rotor packet (7), an even number of permanent magnets (3) which are disposed into the rotor packet (7), rotor caps (4) which are fixed onto the lower and upper surfaces of the rotor packet (7) by means of connector elements, and gaps (5) provided between the permanent magnets (3) and the rotor caps (4).

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