

Title (en)
MEDIUM-FREQUENCY HERMETICALLY SEALED REFRIGERANT COMPRESSOR HAVING ACTIVATION AND UNLOADING FUNCTIONS

Title (de)
HERMETISCH ABGEDICHTETER MITTELFREQUENZ-KÄLTEMITTELKOMPRESSOR MIT AKTIVIERUNGS- UND ENTLADUNGSFUNKTIONEN

Title (fr)
COMPRESSEUR DE FRIGORIGÈNE MOYENNE FRÉQUENCE HERMÉTIQUEMENT CLOS POURVU DE FONCTIONS D'ACTIVATION ET DE DÉCHARGEMENT

Publication
EP 3144533 B1 20201021 (EN)

Application
EP 15792500 A 20150206

Priority
• CN 201410198899 A 20140512
• CN 2015072404 W 20150206

Abstract (en)
[origin: EP3144533A1] A medium-frequency hermetically sealed refrigerant compressor capable of unloading during start, comprising: an electric connector (2), a front end socket (1), a rear end socket (6), a barrel (7), a medium-frequency motor (3) disposed in the barrel (7), a movable disc (4), a motion transmission sleeve (8), a main shaft (9), a clutch coil (10) and a clutch friction plate (11); the front and back ends of the barrel (7) are respectively connected to the front end socket (1) and the rear end socket (6); the barrel (7) has a stator disc (5) fixed therein cooperating with the movable disc (4); the movable disc (4) and the stator disc (5) are sleeved on one side of the main shaft (9), and the clutch friction plate (11) and the clutch coil (10) are sleeved on another side of the main shaft (9); the movable disc (4) and the clutch friction plate (11) are fixed on a side surface of the main shaft (9); the output shaft of the medium-frequency motor (3) is connected to the clutch coil (10) via the motion transmission sleeve (8); the electric connector (2) is fixed on the barrel (7); and the electric connector (2) is connected to the clutch coil (10). The compressor achieves a low current start, and reduces the impact against the on-board power supply.

IPC 8 full level
F04C 18/02 (2006.01); **F04C 23/00** (2006.01); **F04C 23/02** (2006.01); **F04C 28/06** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP US)
F04C 18/02 (2013.01 - EP US); **F04C 18/0215** (2013.01 - EP); **F04C 23/008** (2013.01 - EP); **F04C 23/02** (2013.01 - EP); **F04C 28/06** (2013.01 - EP); **F04C 29/005** (2013.01 - EP); **F04C 2240/605** (2013.01 - EP)

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

DOCDB simple family (publication)
EP 3144533 A1 20170322; **EP 3144533 A4 20180117**; **EP 3144533 B1 20201021**; CN 103982431 A 20140813; CN 103982431 B 20160106; US 2017082106 A1 20170323; WO 2015172593 A1 20151119

DOCDB simple family (application)
EP 15792500 A 20150206; CN 201410198899 A 20140512; CN 2015072404 W 20150206; US 201515310452 A 20150206