

Title (en)  
METHOD FOR OPERATING A COMPRESSOR

Title (de)  
VERFAHREN ZUM BETRIEB EINES VERDICHTERS

Title (fr)  
PROCÉDÉ POUR FAIRE FONCTIONNER UN COMPRESSEUR

Publication  
**EP 2598755 A1 20130605 (DE)**

Application  
**EP 11741157 A 20110718**

Priority  
• DE 102010032652 A 20100729  
• EP 2011062248 W 20110718

Abstract (en)  
[origin: WO2012013530A1] The invention relates to a method for operating a compressor (CO) comprising the installed measurements: a) suction pressure measurement (PA), b) final pressure measurement (PE), c) throughput measurement (??), wherein by means of a first control characteristic map (CTFE) a target value for a pump surge limiter (PCTR) is determined from one or two of the measured variables, and the pump surge limiter compares the target value to the third measured variable, wherein the pump surge limiter (PCTR) opens a bypass valve (BV) when the measured value falls below or exceeds the target value (TV), such that the final pressure (PE) is lowered or the flow through the compressor is increased. For the purpose of high operational reliability, according to the invention in the event of failure of at least one of the measurements, a further measurement of another physical variable of the compression process, together with a measured variable of the remaining measurements or a modification of said measured variable on the basis of an additional characteristic field, is an input variable for a substitute control characteristic map (SCTFE), from which a maximum value or a minimum value of the disrupted measured variable is determined and is used to form the target value in the first control characteristic map (CTFE), or as a substitute target value (TV) is itself an input variable for the pump surge limiter (PCTR).

IPC 8 full level  
**F04D 27/02** (2006.01); **F04D 27/00** (2006.01)

CPC (source: EP US)  
**F04D 27/00** (2013.01 - US); **F04D 27/0207** (2013.01 - EP US); **F04D 27/0246** (2013.01 - EP US); **F04D 27/0284** (2013.01 - EP US)

Citation (search report)  
See references of WO 2012013530A1

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)  
**WO 2012013530 A1 20120202**; CN 103038516 A 20130410; CN 103038516 B 20150401; EP 2598755 A1 20130605; EP 2598755 B1 20150826; US 2013129477 A1 20130523; US 9410551 B2 20160809

DOCDB simple family (application)  
**EP 2011062248 W 20110718**; CN 201180037257 A 20110718; EP 11741157 A 20110718; US 201113812952 A 20110718