

Title (en)

SIGNAL PROCESSING DEVICE AND CONTROL DEVICE

Title (de)

SIGNALVERARBEITUNGSEINRICHTUNG UND STEUEREINRICHTUNG

Title (fr)

DISPOSITIF DE TRAITEMENT DE SIGNAUX ET DISPOSITIF DE COMMANDE

Publication

EP 3298689 A1 20180328 (DE)

Application

EP 16715294 A 20160408

Priority

- DE 102015209277 A 20150521
- EP 2016057693 W 20160408

Abstract (en)

[origin: WO2016184605A1] The present invention discloses a signal processing device for processing a differential signal from a sensor at a prescribed signal frequency, having a positive signal input (5-1), which is couplable to a positive sensor output of the sensor, and a negative signal input (6-1), which is couplable to a negative sensor output of the sensor, having a positive signal output (7-1) and having a negative signal output (8-1), having a first frequency-dependent resistance (C1H) between the positive signal input (5-1) and the positive signal output (7-1) and having a second frequency-dependent resistance (C1L) between the negative signal input (6-1) and the negative signal output (8-1), wherein the first and second frequency-dependent resistances (C1H, C1L) are designed to allow electrical signals at the prescribed signal frequency to pass in approximately unattenuated fashion, having a first voltage divider (11), which is arranged at least in part in parallel with the first frequency-dependent resistance (C1H) and is designed to divide a voltage between the positive signal input (5-1) and the positive signal output (7-1) using a prescribed ratio, having a second voltage divider (12), which is arranged at least in part in parallel with the second frequency-dependent resistance (C1L) and is designed to divide a voltage between the negative signal input (6-1) and the negative signal output (8-1) using a prescribed ratio. Further, the present invention discloses a control device for an electric machine.

IPC 8 full level

H03H 1/02 (2006.01); **H03H 7/42** (2006.01)

CPC (source: EP US)

G05F 3/08 (2013.01 - EP US); **H03H 1/02** (2013.01 - EP US); **H03H 7/06** (2013.01 - US); **H03H 7/427** (2013.01 - EP US); **H02P 6/00** (2013.01 - US)

Citation (search report)

See references of WO 2016184605A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2016184605 A1 20161124; CN 107580754 A 20180112; DE 102015209277 A1 20161124; EP 3298689 A1 20180328; US 10320359 B2 20190611; US 2018175818 A1 20180621

DOCDB simple family (application)

EP 2016057693 W 20160408; CN 201680029003 A 20160408; DE 102015209277 A 20150521; EP 16715294 A 20160408; US 201615574940 A 20160408