

Title (en)
VARIABLE FREQUENCY DRIVE ACTIVE HARMONIC MITIGATION CONTROLS AND DIAGNOSTICS

Title (de)
AKTIVE HARMONISCHE ABSCHWÄCHUNGSSTEUERUNG FÜR EINEN ANTRIEB MIT VARIABLER FREQUENZ UND DIAGNOSE DAFÜR

Title (fr)
COMMANDES ET DIAGNOSTICS D'ATTÉNUATION D'HARMONIQUES ACTIFS DE MÉCANISME D'ENTRAÎNEMENT À FRÉQUENCE VARIABLE

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Abstract (en)
[origin: WO2014116627A1] Variable frequency drive active harmonic mitigation controls and diagnostics are disclosed. Exemplary controls and diagnostics include operating a variable frequency drive including converting an AC input line voltage to a DC voltage, generating a motor drive signal using the DC voltage, and driving an electric motor with the motor drive signal. A harmonic mitigation signal is provided to the drive configured to at least partially mitigate harmonics during the operation of the drive. The harmonic mitigation signal is inhibited based upon presence of an error condition associated with the drive input. The inhibiting is terminated based upon the absence of the error condition. A diagnostic fault condition based upon a number of occurrences of the error condition.

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