



US 20220360204A1

(19) **United States**(12) **Patent Application Publication**
Arefeen(10) **Pub. No.: US 2022/0360204 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **METHOD AND APPARATUS FOR RIDING
THROUGH POWER DISRUPTIONS OF A
DRIVE CIRCUIT**(71) Applicant: **Raptor Lift Solutions, LLC**, Houston,
TX (US)(72) Inventor: **Mohammed S. Arefeen**, Houston, TX
(US)(21) Appl. No.: **17/813,703**(22) Filed: **Jul. 20, 2022****Related U.S. Application Data**(63) Continuation of application No. 17/090,100, filed on
Nov. 5, 2020, now Pat. No. 11,424,709.**Publication Classification**(51) **Int. Cl.**
H02P 27/06 (2006.01)**H02J 7/00** (2006.01)(52) **U.S. Cl.**
CPC **H02P 27/06** (2013.01); **H02J 7/0063**
(2013.01)(57) **ABSTRACT**

An electrical ride-through (ERT) unit is configured to apply a voltage to a drive circuit during disruptions of line voltage to the drive circuit. The ERT unit includes a capacitor on an ERT circuit that is prevented from applying the voltage to the drive circuit during normal operation of the drive circuit, and applies the voltage to the drive circuit during a voltage drop on the drive circuit.

