



ACNT-H61L, ACNT-H343, ACNT-H313, ACNT-H50L, ACNT-H511, ACNT-H870, ACNT-H87A, ACNT-H87B, ACNT-H790, ACNT-H79A, ACNT-H79B

15-mm Wide ACNT Optocouplers for High Voltage Applications

Introduction

The Broadcom® ACNT family of optocouplers offers 15-mm creepage and 14.2-mm clearance for high voltage isolation applications. These optocouplers provide 2,262 V_{PEAK} working insulation voltage and 12,000 V_{PEAK} transient overvoltage in a compact stretched, surface-mount SO-8 package. The ACNT optocouplers consist of comprehensive product types to meet the different galvanic isolation requirements and features. They include following:

- ACNT-H343 gate drive optocoupler
- ACNT-H61L low-power 10 MBd digital optocoupler
- ACNT-H790/H79A/H79B high linearity isolation amplifier for current sensing
- ACNT-H870/H87A/H87B voltage sense optocoupler
- ACNT-H50L/H511 low speed analog optocoupler

For example, the three-phase inverter converts DC-AC power to a load (motor); [Figure 1](#) highlights the various isolation locations and the purpose of each ACNT optocoupler product type. The ACNT optocouplers are easy to use and are reliable.



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