

JUNE 2020

MDGF, Modified Differential Ground Fault

New feature for Emax 2 and New Tmax XT



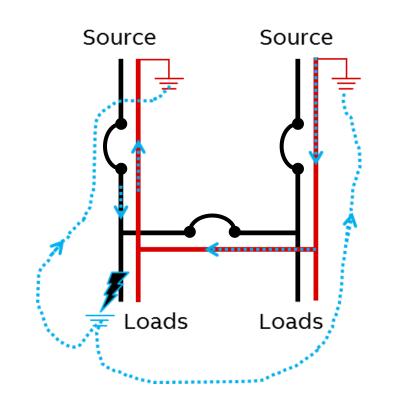
What is MDGF

Modified Differential Ground Fault

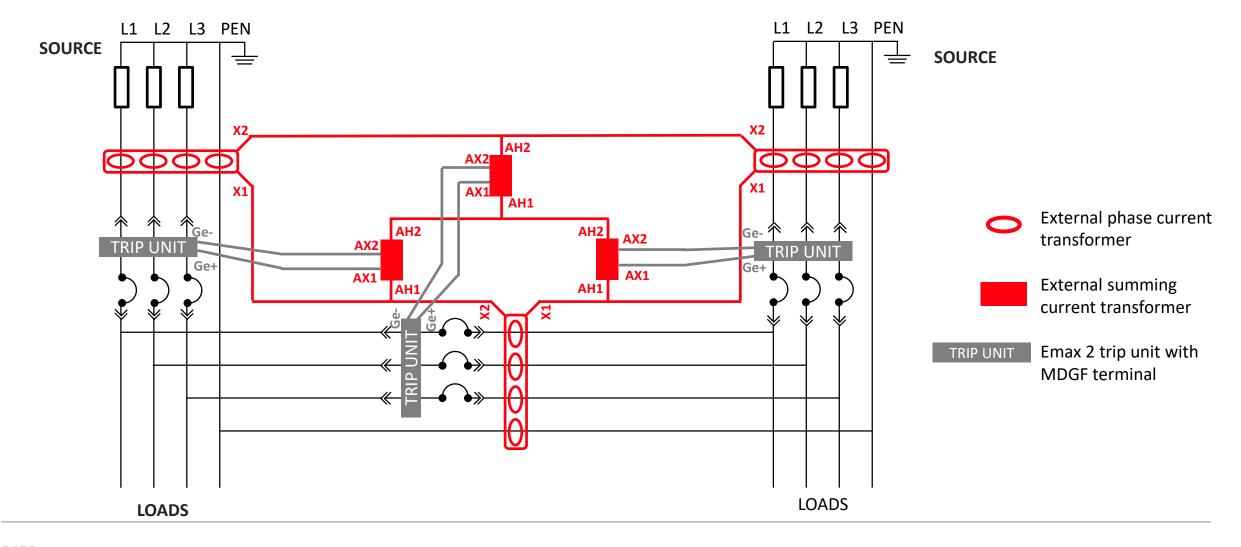
The challenge: Multi-sourced electrical system with a solidly grounded common neutral conductor make ground fault protection very challenging. These systems are often found in double ended substation and generation paralleling gear applications.

In these cases, it is not enough to use traditional zero sequence ground fault protection because it is virtually impossible to isolate and identify the ground fault current.

The Emax 2 offers **M**odified **D**ifferential **G**round **F**ault, or MDGF, protection to solve this paradigm. The solution includes Emax 2's Gext protection algorithm as well as some external hardware to interconnect the system.



Wiring Schematic



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Shopping list

ABB



Emax 2 or XT7 With touch trip unit



Terminal for MDGF

Two different versions available: fixed and withdrawable breaker

External components

MDGF scheme is compatible with phase CTs and summing CTs supplied by Amran (to be purchased separately)

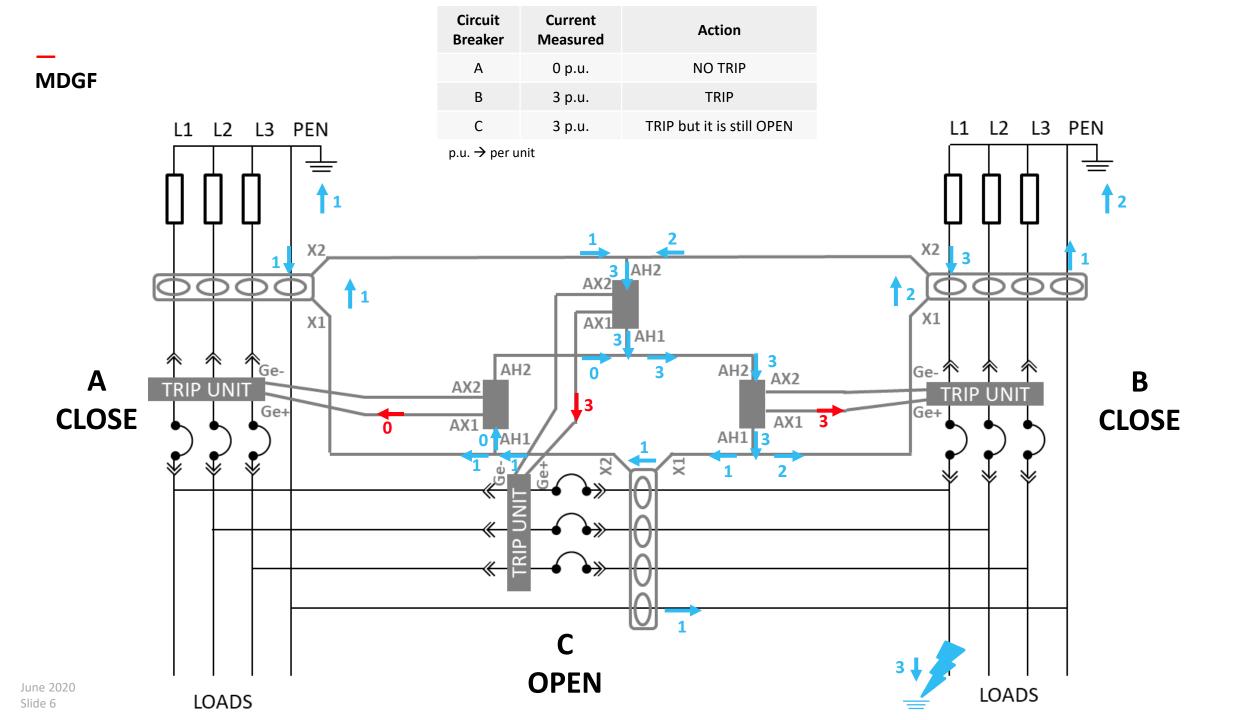
http://www.amranit.com/

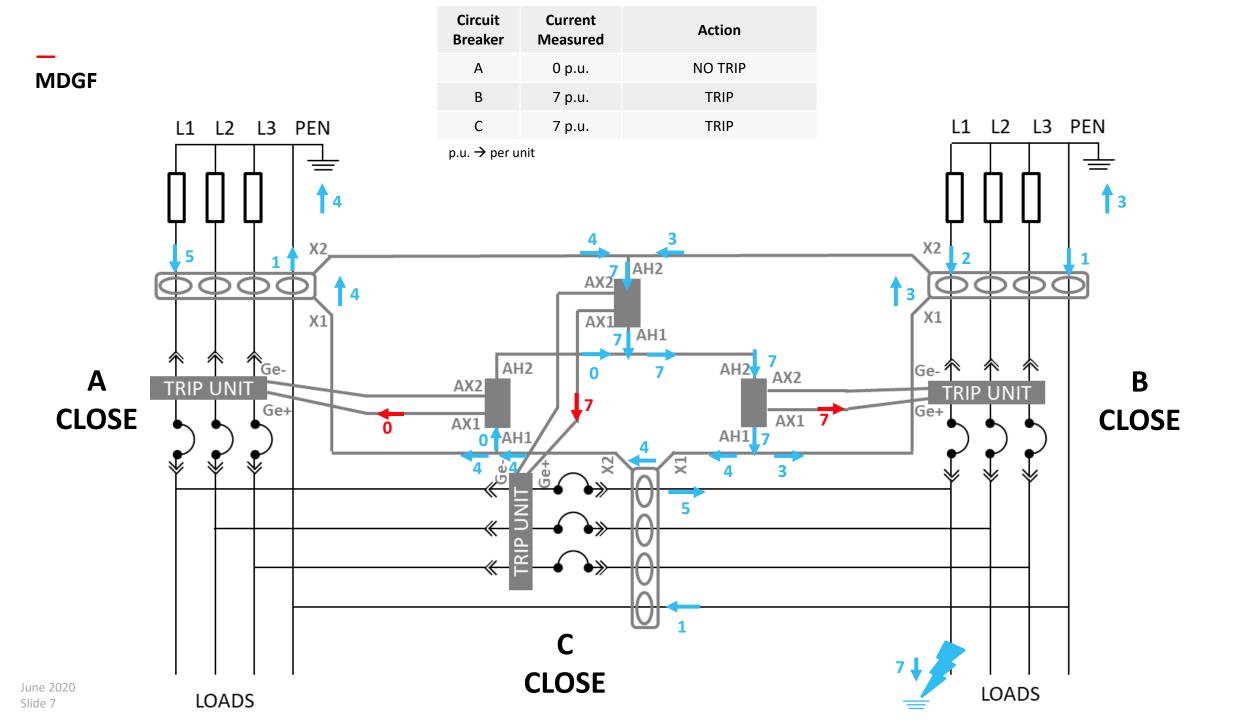


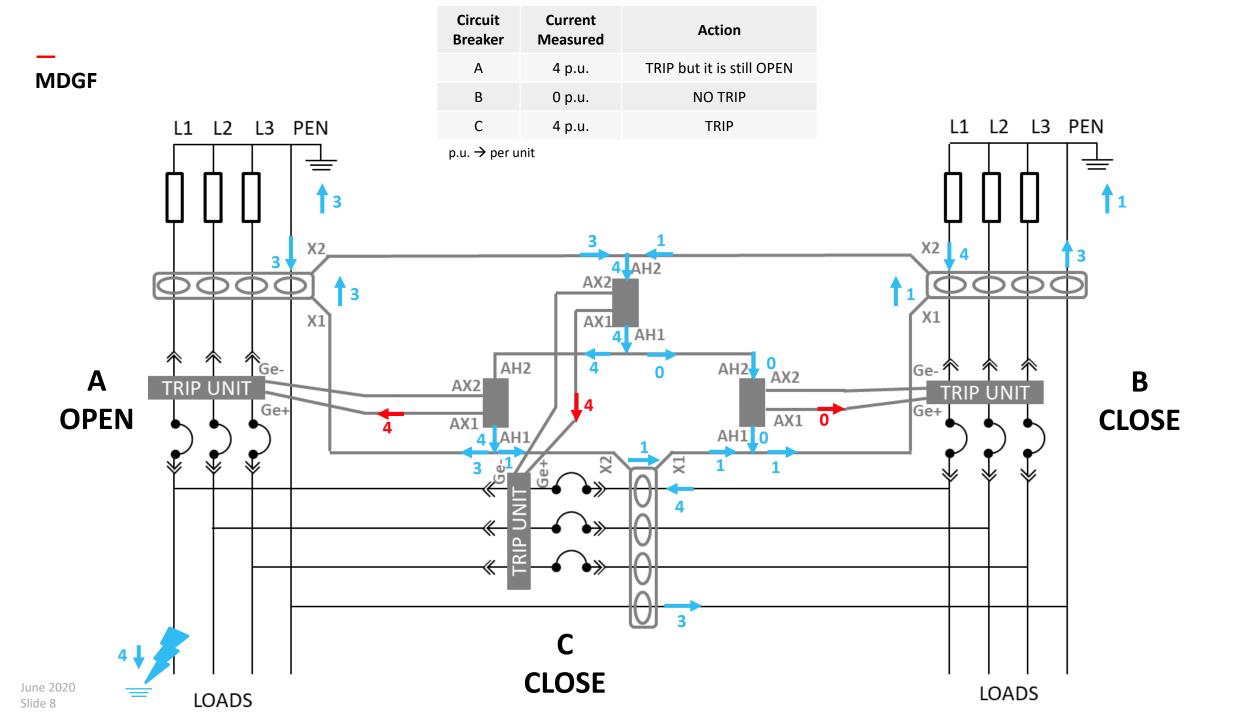


CTs picture may not reflect actual product









Documentation

