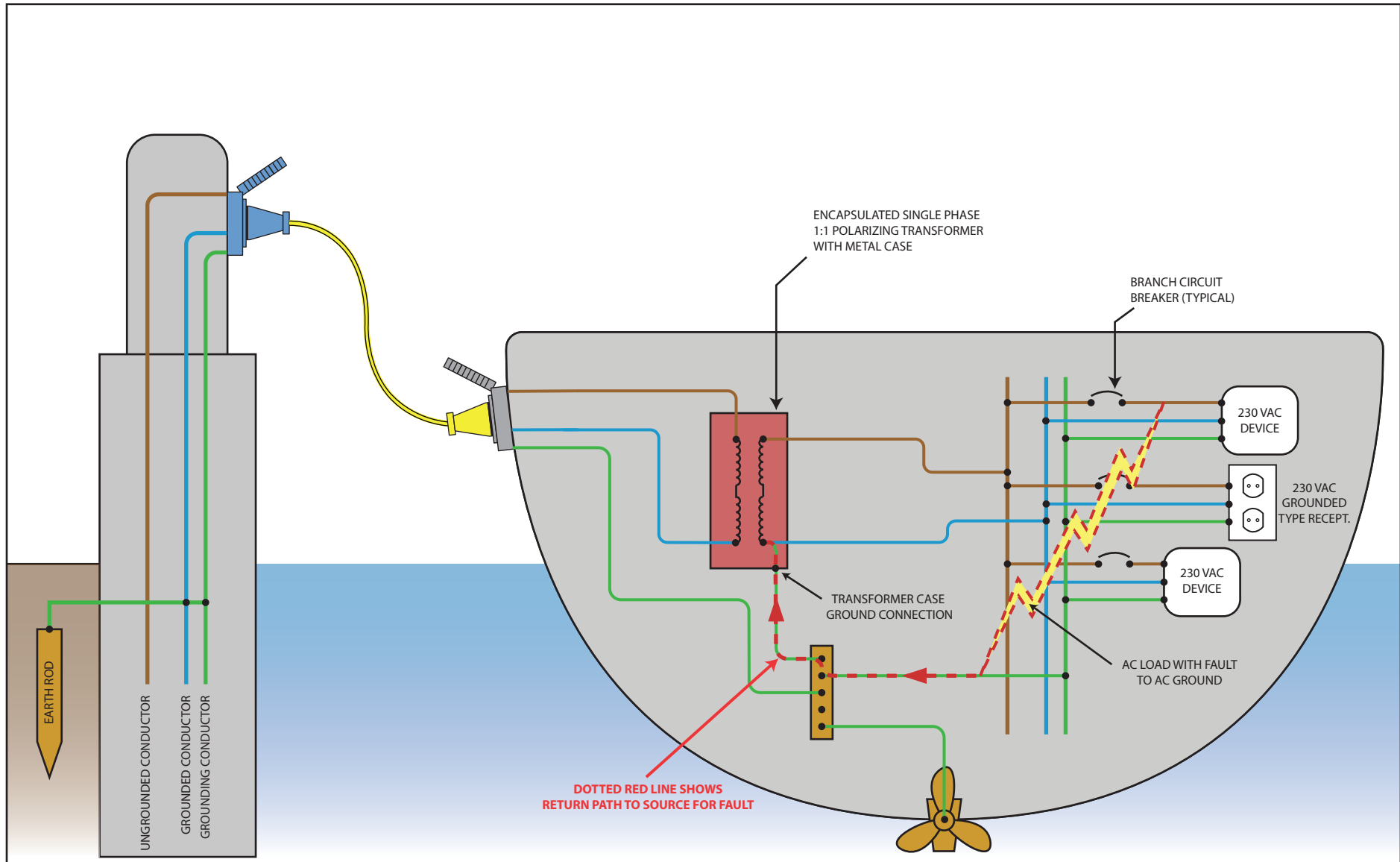
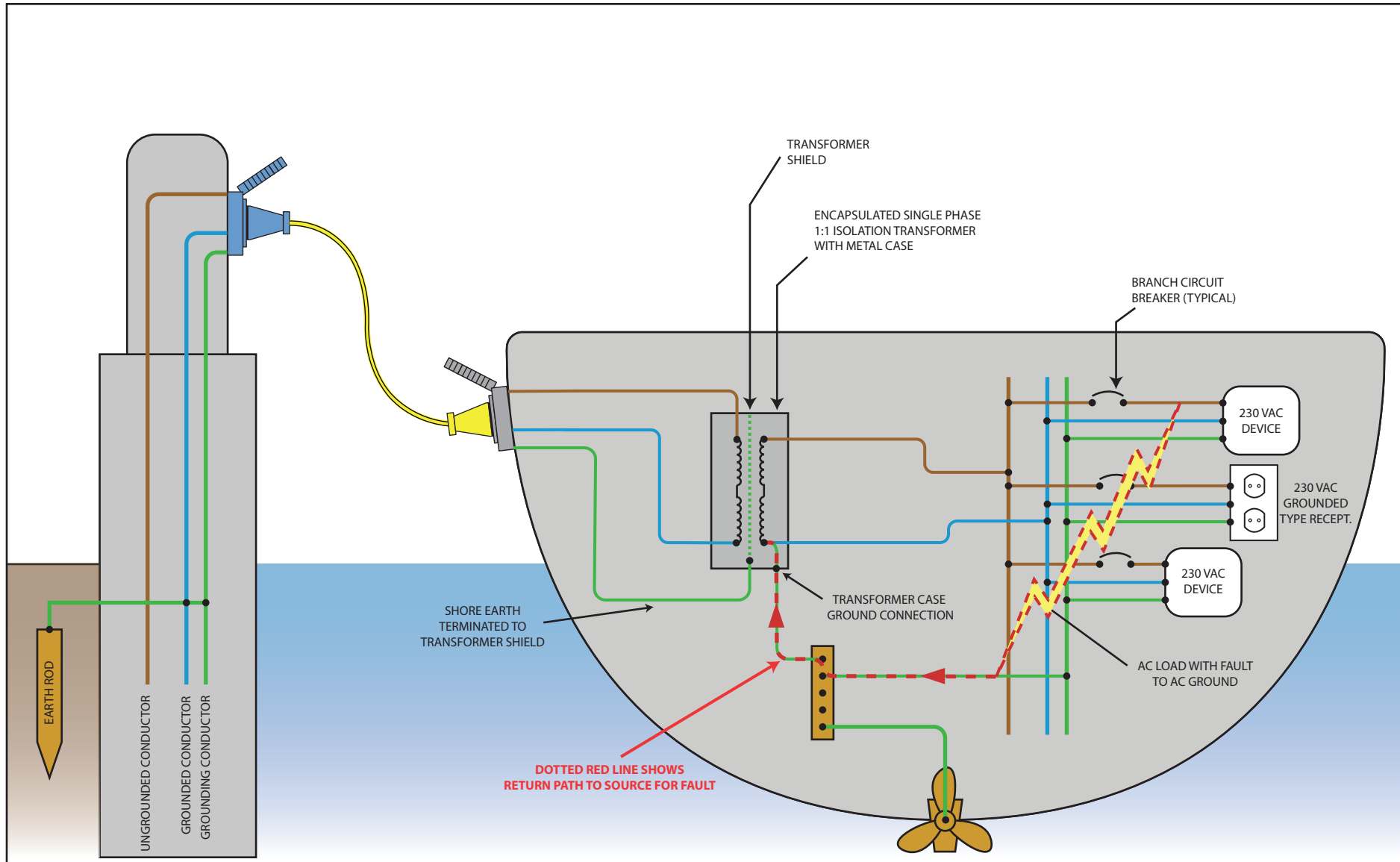


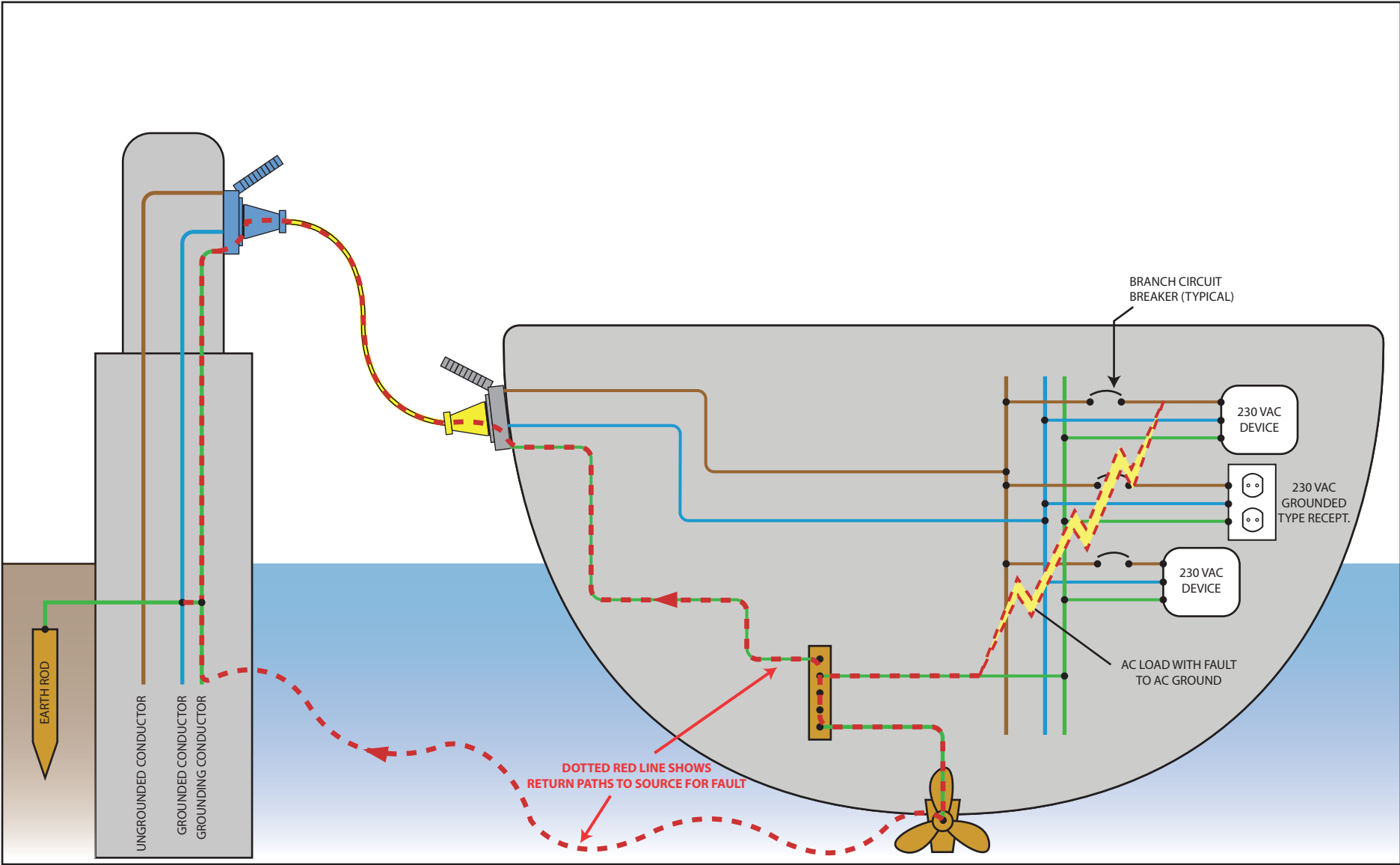
Fault from live to earth on ship's wiring on a system with an input polarizing transformer. The fault path is back through the ship's earth wiring to the secondary winding of the transformer. This provides excellent protection for swimmers. Extra protection can be provided for the ship by adding a fail safe galvanic isolator into the shore power earth.



Fault from live to earth on ship's wiring on a system with an input isolation transformer. The fault path is back through the ship's earth wiring to the secondary winding of the transformer. This provides excellent protection for ship and swimmers.



Fault from live to earth on ship's wiring on a system without any input transformer. The fault will find its return path through the shore power cable earth wire and via the water. There is an inevitable risk for people in the water. In the event of a corroded shore power earth connection the return path will be solely through the water. This configuration provides no protection for the ship and poor protection for swimmers.



NO TRANSFORMER