

Abstract

Fault protection system for a power system of dynamically positioned vessel

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A fault protection system of a power system of a dynamically positioned vessel is provided. The power system has a power distribution bus separated into three or more bus subsections, electric connections including bus ties which connect
10 the bus subsections in a ring configuration and circuit breakers connected between the bus subsections to break the electric connections. For at least one of the bus subsections, the fault protection system includes a generator circuit breaker for coupling a generator to the bus subsection,
15 one or more feeder circuit breakers for coupling one or more loads to the bus subsection, a first circuit breaker via which a first end of the bus subsection is connected to a bus tie, the bus tie providing the electric connection to another bus subsection in said ring configuration, the first circuit
20 breaker being a bus tie breaker, a second circuit breaker for coupling a second end of the bus subsection to a further bus subsection in said ring configuration, protection relays coupled to the circuit breakers for operating the circuit breakers, and communication links between the protection relays,
25 the protection relays being configured to exchange information via said communication links.

(Fig. 2)

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