

131 circuit breaker energy storage

What is a suitable circuit breaker?

Therefore the suitable circuit breaker is a three-pole E3N 2000 circuit breaker with PR1122-123/DC $I_n=2000$ A. The connection of the poles is carried out in the factory by ABB. The solution of the table shows the connections between three-pole circuit breaker, load and supply source.

Which circuit breaker is suitable under short-circuit conditions?

According to the column considered, the circuit breaker which would seem suitable under short-circuit conditions is an E2N ($N=50kA > I_k$). However, according to the table of the rated uninterrupted current (page 39), it is necessary to pass to an E3N since it has $I_u=2000$ A which is higher than the current absorbed by the loads.

What is a rated current in a circuit breaker?

This current is often referred to the rated current of the load protected by the circuit breaker itself.

What are the different types of circuit breakers?

Circuit breakers, devices carrying out the protection function against overcurrents, are divided into three families including miniature circuit breakers, molded case circuit breakers and air circuit breakers. Miniature circuit breakers available for use in direct current are series S280UC, S800S UC and S800 PV.

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