

DC contactors C310 and CS115

Schaltbau contactors ensure safety of vanadium redox flow batteries



DC is the fastest growing and most challenging technology. Schaltbau is one of the few direct-current experts worldwide with decades of expertise. That is why more and more customers are relying on the DC contactors from Schaltbau.

Customer profile

- Company: VFlowTech, Singapore
- Application: Energy Storage
- Industry: Renewable Energy

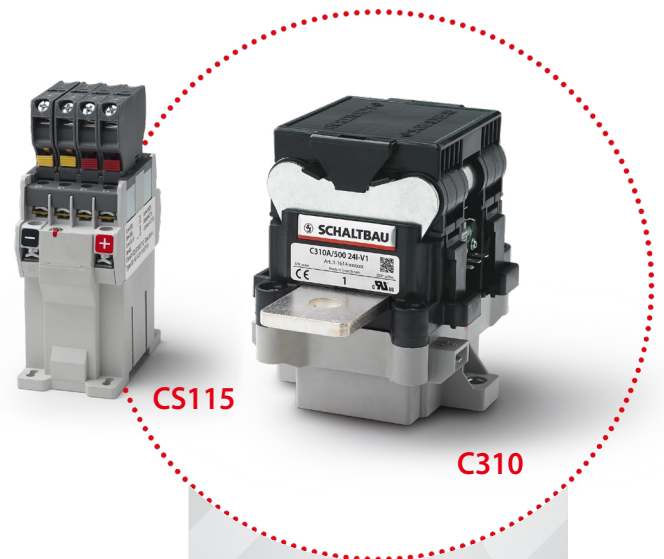
Customer case

- A leading manufacturer of modular vanadium redox flow batteries for energy storage was looking for an alternative to gas encapsulated contactors.
- The solution used so far led to recurring field failures resulting in system downtime.
- A more robust contactor was required to improve system availability.
- Contactors with reliable signal controlling were important for the system functionality.

Schaltbau solution

Schaltbau DC contactors ensure safe operation by:

- Being fully bi-directional: Safe disconnection of high powers irrespective of the current direction
- Having high making capacity I_{cm} up to 4,000 amps leading to increased system availability
- Excellent breaking capacity: The contactors retain its full function when disconnecting high currents
- Having low energy consumption and low heating thanks to sophisticated coil saving circuit
- Providing higher safety due to auxiliary contacts: Mirror contact functionality IEC 60947-4-1, Annex



Contactors CS115:
4-pole uni-directional
DC and AC contactor
up to 800 V / 30 A

Contactors C310:
1-pole bi-directional
DC contactor up to
1500 V / 500 A