

# POWER CONVERSION & STORAGE

## LV3 DMR 850A CDC

Scalable. Flexible. Powerful.

The LV3 Delta Module Replacement (DMR) represents a significant advancement, offering a high current density and 3-phase liquid-cooled power module that serves as an effective upgrade to our existing MV3000 Liquid Cooled Delta (LCD) module range.

### TECHNICAL SPECIFICATION

Electrical Data	
Network type	TN, TT, IT
Voltage range	690 V <sub>AC</sub> +10% / -20%
Current rating	850 A <sub>rms</sub>
Overload	110% Full-load current for 60s/600s at T <sub>in</sub> =50°C & 800 A <sub>rms</sub> , 150% Full-load current for 60s/600s at T <sub>in</sub> =50°C & 587 A <sub>rms</sub>
Supply frequency (nominal)	50Hz, 60Hz
Output frequency range	20Hz to 200Hz, below on request
Switching frequency	2,500Hz
Interlock time	4.0µs
DC Link	
Nominal voltage	1,100V <sub>dc</sub>
Maximum voltage	1,200V <sub>dc</sub> (continuous) / 1,290V <sub>dc</sub> (<1s)
Capacitance	11.6mF
Capacitor bank cooling	Air-forced
Environmental Data	
Max. operating temperature	+55°C
Min. operating temperature	+5°C (non-condensing)
Non-operational temperature	-20°C to +70°C
Storage and transport	-20°C to +60°C
Altitude	1,000m nominal
Coolant	
Type	Water/Glycole mixture 50/50%
Max. inlet temperature	+60°C
Min. inlet temperature	+5°C, below on request
Flow rate	25 l/min (400 mBar)
Mechanical	
Dimensions	1,265mm H x 251mm W x 542mm D
Weight	115kg
IP rating	IP00
Power terminals	2 studs M10 per AC phase 2 studs M10 per DC connection
Water connection in/out	(1) Return pipe/staubli with Ø 22mm (2) Hosetails with Ø 22mm (3) Vent/return pipe/hosetails with Ø 22mm options



### LV3 DMR key data summary

- Voltage rating: 400–690V
- Maximum current: 850 A<sub>rms</sub>
- IGBT based power module
- 3-phase in-/output and DC link connections
- Grid or electric machine applications
- Liquid-cooled
- Weight: 115 kg

### Benefits

- Proven technology validated since 2018 in the field
- Improved reliability
- Decreased dry out time
- Higher efficiency and reduced losses
- Lower cooling requirements
- More robust design

### GEA34830 LV3 DMR 850A CDC

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