

# POWER CONVERSION & STORAGE

## LV3 DMR 1,250A PECe

Scalable. Flexible. Powerful.

The LV3 DMR Power Stack is a high current density, liquid-cooled, power electronics module developed for a wide range of applications. It forms the basis of a modular, low-voltage drive portfolio. With its scalable control architecture, the LV3 DMR Power Stack covers the range of sub- to multi-megawatt power conversion and variable frequency drive applications.

### TECHNICAL SPECIFICATION\*

#### Electrical Data

Network type	TN, TT, IT
Voltage range	690 V <sub>AC</sub> +10% / -20%
Current rating	1,250 A <sub>rms</sub>
Overload	110% Full-load current for 60s/600s at T <sub>in</sub> =50°C
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	1,150V <sub>dc</sub>
Maximum voltage	1,200V <sub>dc</sub> (continuous) / 1,290V <sub>dc</sub> (<1s)
Capacitance	19.2mF
Capacitor bank cooling	Air-forced

#### Environmental Data

Max. operating temperature	+50°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	35 l/min (800 mBar)

#### Mechanical

Dimensions	1,265mm H x 251mm W x 542mm D
Weight	115kg
IP rating	IP00
Power terminals	3 studs M10 per AC phase 3 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: 690V
- Maximum current: 1,250 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

#### Applications

- Industry drives
- Renewable Energy
- Marine propulsion
- Oil and Gas
- Test benches

\*Preliminary draft data

#### GEA34922 LV3 DMR 1,250A PECe

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