

# Short Form

## ARCTU 3I



### ***Measurements and Monitoring Board***

- **3 phase currents (and sum) with overcurrent protection and grounding detection.**
- **Isolated DC voltage with brake control and overvoltage signal.**
- **Heatsink temperature monitoring with overtemperature signal.**
- **Fully isolated up to 4KV.**
- **Single 20 to 35V supply voltage with internal monitorings.**
- **Wide operating temperature range : -40 / +85°C**
- **General error and overtemperature outputs on positive or negative logic.**

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ARCTU3I board was especially designed for power converters control systems and protection. Normalised voltage signals of 3 currents, 1 voltage and one temperature are available on a single DIN connector.

ARCTU3I can be used with 1 to 3 phase inverters and rectifiers or any other converter in the limit of inputs number and nature. Each channel can be turned on/off by the end user.

ARCTU3I also includes an automatic or manual (or both) brake control output compatible with ARCAL gate drivers.

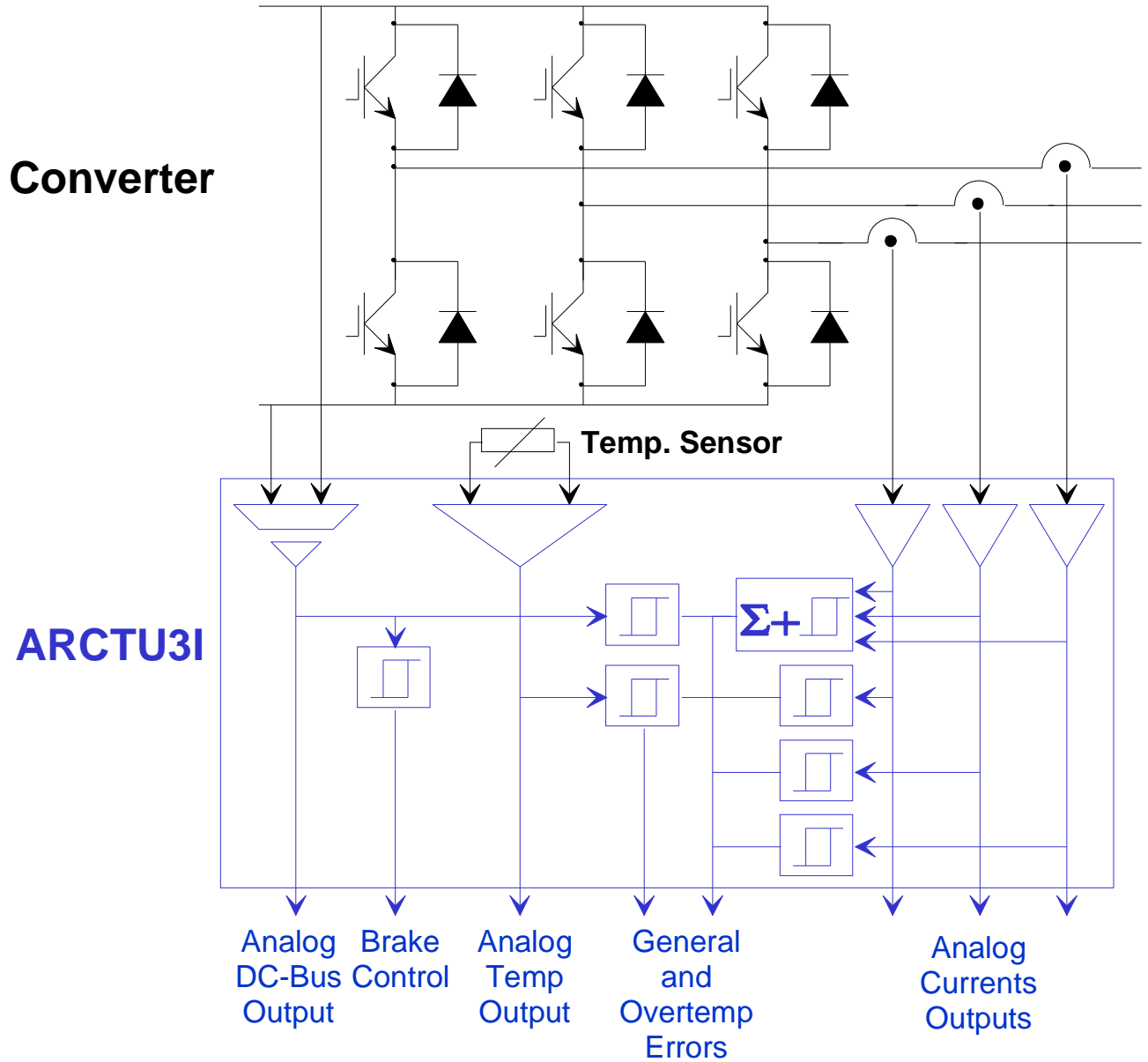
Using ARCTU3I with ARCAL gate drivers provides an absolute security for converter :

- Dead-time control
- Load short-circuit, overcurrent and grounding
- Internal short-circuit
- DC Bus overvoltage
- Overtemperature

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*Main Functions Block Diagram*



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