

# INTRODUCING RT CHOKE 25A & 85A

- Common-mode EMI mitigation of 1 phase and 3-phase currents at 25 A and 85 A.
- The parts are available in horizontal and vertical mounting options.
- Choice of inductance options are available with ferrite and nanocrystalline material. Up to 17mH at 25 A.
- UL certified insulation system

Common-mode Choke for 1-phase, DC- and 3-phase applications with excellent attenuation performance. Typical use case in a power modules for Electric Vehicle Infrastructure (EVI) up to 60kW at 85 A. In EVI power modules, the chokes mitigate EMI on the grid side as AC choke and also in the battery side as DC chokes. Other applications are heat pumps, drives and industrial machinery. The new choke add-on fills a gap in the series at 25 A and extends the current rating up to 85 A.

## KEY BENEFITS

- Helps customer equipment to comply to EMC standards. Then customers can safely and legally sell their parts. Applications up to 60 kW can not directly be filtered on the PCB.
- Horizontal and vertical integration options to adapt to existing space restrictions.
- Customers can choose from cost effective ferrite and performance options with nanocrystalline cores to mitigate EMI for their case.
- Easy implementation into applications with UL requirements.

## APPLICATIONS

- Power modules of high power DC charging stations.
- EVI (best)
- BESS
- Heat Pumps
- Drives
- Industrial machinery

## ELECTRICAL

- Currents of 25 A and 85 A.
- Inductances 0.2 to 17.3 mH with ferrite and nanocrystalline material.
- Reliable connection with through-hole (THT) terminals.



## MECHANICAL

- Reliable mechanical fixation to the PCB with screw points in the base plate.

## MATERIALS

- UL approved insulation system (also copper wires, ferrite-, and nanocrystalline core material).

## STANDARDS AND SPECIFICATIONS

### Product Specifications:

- Designed according to the choke standard IEC 60938: Fixed inductors for electromagnetic interference suppression
- Frequency, DC to 400 Hz
- 300 VAC / 450 VDC;
- Overvoltage category III
- Nominal ambient temp 60 °C without derating
- UL VO

## LEARN MORE

- [RT Choke 25 A & 85 A product page](#)
- [RT Choke 25 A & 85 A datasheet](#)
- [RT Choke 25 A & 85 A part list](#)
- [RT Choke 25 A & 85 A images](#)