



Sensors



Switches



Controls

Application notes



Application Note : October 2018

Market involved : HVAC

Product : RGTS

Customer : OEMs

Subject : Starting mobile air-conditioning units with 40% less current

CUSTOMER ISSUE :

Mobile air-conditioning units are becoming more popular since they provide decentralised cooling exactly where needed.

They provide the necessary cooling in specific areas without the need of a costly centralised system.

The starting current of such machines is typically 4 to 5 times the running current.

This high current may be enough to cause breakers to trip or create voltage sags large enough to disturb sensitive equipment.

OEMs require a solution to significantly lower the starting current of the motor.

Due to the compact footprint of these machines, dimensions are also critical to be able to fit in the tight panel space available.

OUR SOLUTION :

The RGTS is a single phase soft starter suitable for low starting torque motors. Low-starting torque motors do not require a start capacitor.

The RGTS typically reduces the motor starting current by 40% thereby eliminating issues related to a high starting current.

The RGTS has a wide operational voltage range, from 100 to 240 VAC 50/60Hz.

It is also designed in a 54 mm-wide housing for an operational current of up to 25A.

There are two versions of the RGTS: 24VAC/DC or 100 – 240 VAC for more installation flexibility.

BENEFITS :

- Minimises trips due to high starting current
- Reduces disturbances to sensitive equipment
- Compact solution
- Easy to set-up
- Wide control and operational voltage range reduces soft starter susceptibility to voltage sags