



Sensors



Switches



Controls

Application notes



Application Note : July 2021

Market involved : All

Product : RSGT Series

Customer : OEMs

Subject : Ready for IE3 motors

CUSTOMER ISSUE :

New EU eco-design measures for electric motors and variable speed drives enter into force on 1 July 2021, aimed at improving the energy efficiency of these products across Europe. Under this new regulation, motors placed on the EU market need to reach IE3 efficiency levels.

IE3 motors, although more efficient at nominal speed, require almost twice the starting current of IE2 (less efficient) motors.

OEMs, who are using motors in their machines, will need solutions that bring back this starting current to acceptable levels, avoiding over-sizing of cables and/or protection devices.

OUR SOLUTION :

The RSGT is a high performance soft starter in a very compact frame. Its high performance is based on two main factors:

1. Best-in class current reduction (>50% vs DOL start)
2. Perfectly balanced currents on all phases

In addition to the above, the RSGT also comes with a native Modbus interface (optional on the RSGT 45mm models) that enables our customers to implement more advanced monitoring for real-time condition monitoring.

This functionality is offered in a very user-friendly interface that, also thanks to the self-learning algorithm, takes away the setup complexity and actually enables continuous adaptation of the soft starter to the load requirements – at every single start!

BENEFITS :

- Compatible with IE3 motors
- Considerable time saving during initial setup
- Less total system costs – no oversizing of cables and/or protection devices required
- Increased panel space savings with integrated diagnostics and protection functions
- Easy to use – soft starter configuration only requires 3 adjustments
- High performance within a cost effective platform