



Sensors



Switches



Controls



Fieldbuses

Application notes



Application Note : July 2016

Market involved : Lifts and Escalators

Product : RSGD 75mm

Customer : Panel builder

Subject : Hydraulic lifts

CUSTOMER ISSUE :

In the market of hydraulic lifts, customers need to reduce the starting current of the hydraulic pump so as not to affect the electrical network.

The hydraulic pump needs a very fast start – typically in less than 1second.

Hydraulic lifts are normally used in low-rise buildings up to a maximum of 6 floors.

The required starts per hour could reach around 40 to 60.

In some cases our customers need to retrofit the electrical panel, replacing mechanical contactors and/or star-delta starters with soft starters.

OUR SOLUTION :

The RSGD 75mm series is a very compact soft starter that is just 75mm wide up to an operational current of 100A.

The ramp-up time can be adjusted down to 1second to suit applications such as hydraulic lifts.

The RSGD algorithm works on a self-learning current limit to reduce starting current and enable more pump starts to be performed. This ensures ideal starts under different loading conditions.

We also provide a starts/hr table to correctly size the soft starter depending on the number of starts required.

BENEFITS :

- Extremely easy to use – only 3 adjustments required
- Self-learning current limit algorithm reduces voltage network disturbances
- The electronic overload, as well as PTC input, ensure maximum pump protection under anomalous conditions
- Alarms can also follow an auto-recovery routine, resulting in the reduction of downtime and maintenance costs
- Modbus communication can be used for preventive maintenance to check the number of starts performed