



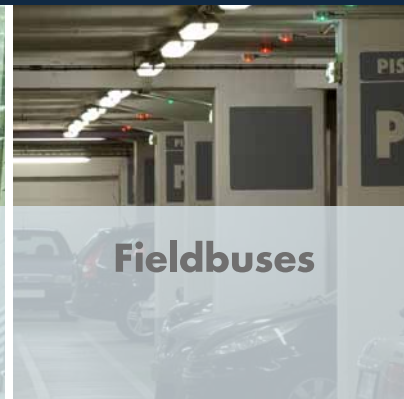
**Sensors**



**Switches**



**Controls**



**Fieldbuses**

## Application notes



**Application Note : August 2015**

**Market involved : Food & Beverage**

**Product : RSWT 120mm**

**Customer : OEM**

**Subject : Reduction of pump starting current in high pressure washing systems**

### CUSTOMER ISSUE :

In the food industry, hygiene is a top priority. During the cleaning process of the food containers (e.g crates) a certain washing power is necessary to make sure that the cleaning process is effective.

Centrifugal pumps are commonly used in these applications to produce high pressure water jets for the washing processes. These machines may have a number of pumps according to the number of washing stages required.

Reducing starting current is required to minimise electrical disturbances and lower peak demand.

### OUR SOLUTION :

The RSWT soft starters are fully 3-phase controlled to ensure the optimum starting current reduction.

The internal bypass relays reduce heat dissipation in the electrical panel and the very compact design makes it an easy fit in applications where space may be limited.

The auto-adaptive algorithm, used in the RSWT series, makes the product very easy to use, saving time in finding the optimal settings for each specific pump.

### BENEFITS :

- User friendly – through the self-learning algorithm which optimises pump starting and stopping
- Optimal current reduction with 3-phase control
- More protection with integrated overload (Class 10)
- Less time required during installation – just 3-knob settings
- Manual or auto-reset of alarms for more user flexibility
- No need for an auxiliary power supply (for RSWT40 models) – saves panel space
- Alarm relay output indication facilitates maintenance.