

## Railway Electrification – Motor Drive MDR3



Successful test installation of the MDR3 – motor drive



Motor drive MDR3

### Customer

The Swiss Federal Railways (SBB) is the largest railway company in Switzerland. The company maintains with over 3,030 railway tracks a large share of the 7,590 km long railway network in Switzerland.

### Project

The SBB has commissioned in a public tender the Swiss company "Rauscher & Stoecklin AG" as new and currently long-standing supplier of motor drives. The contracting was achieved with the new developed motor drive, the MDR3 (Motor Drive 3rd Generation).

### Challenge

The major challenge was the development of a high quality motor drive by reduced costs, which is also mounting-compatible with the existing motor drive. Within the development new requirements of the SBB were fully implemented by innovative solution concepts of the Rauscher & Stoecklin AG.

### Technical Data

- Operational voltage 110 V DC
- Control voltage 110 V DC
- Multihub (125mm – 190mm)
- Remote control
- 2 door locks
- Earth connection
- 1 potential-free contact
- 5 years warranty

## Solution

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The Rauscher & Stoecklin AG has decades of know-how in the production of motor drives for catenary switches. This knowledge and the high flexibility resulted in a product of highest technical level.

A very most important characteristic is the high reliability of the MDR3, which is achieved by very precise and load-independent end positions. Furthermore, the motor drive is maintenance-free, so a 5 year warranty is provided

Other very useful properties are e.g. the low weight of only 33 kg, which allows a single person to transport the motor drive. In order to achieve additional cost savings for the customer, the intake current was dramatically reduced, which leads to wires with reduced cross-sections

## Benefits

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- Maintenance - free
- Very high reliability
- Low weight
- Low intake current
- Optional accessories for various applications

## Rauscher & Stoecklin

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The Rauscher & Stoecklin AG is a Swiss company and stands for "Made in Switzerland". The range includes switchgears for overhead line equipment of railway systems with voltages of 15 kV and 25 kV AC.

Thanks to very long experience in the branch, there are various accreditations of different international railways.

The high willingness to cooperate and flexibility of the Rauscher & Stoecklin AG allow short-term clarifications, trainings and also special designs of each product.