

DCU (ВПТС.426471.114)



It is used in interior automatic doors ФКГП570.50.00.000 on the RA3 rail bus manufactured by Metrovagonmash JSC.

Function

The DCU is designed to control the operation of the interior sliding door ФКГП 570.50.00.000 and to interact with the VCU control system via the CAN bus.

Parameters

- Software and hardware overload protection in the motor control stage
- Digital inputs and outputs with a rated voltage of 24 V
- Digital outputs overload protection
- Protection of digital inputs against overvoltage and connections with polarity violation
- Passenger protection against tightening:
 - By motor current value
 - By motor current shape
 - By motor encoder indications
 - By safety edge (digital input) actuation
- It can be supplied with diagnostic software designed for:
 - Display of inputs / outputs status
 - Display of motors operation parameters
 - Manual control bypassing the main algorithm
 - Recording of doors opening/closing traces
 - Firmware updates
- The solution has been developed on the rolling stock

Specifications

Name	Value
DC supply voltage	77 to 144 V
Maximum current (with DC motor control)	5 A
Operating temperature	-50 °C to +50 °C
Maximum demanded power in the idle mode (without connected loads)	15 W
Unit weight	2.5 kg, max.
Overall dimensions (HxWxD)	78 x 162 x 235
Structural design category	M25