MPF 125

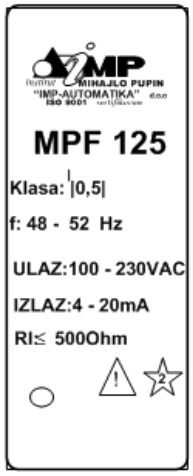
Frequency converter

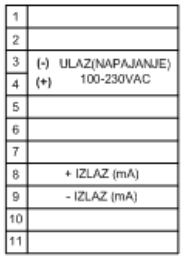
The **MPF 125 module** is a measurement converter of the frequency of alternating voltage into a standard direct current signal. The device is used for frequency measurement in substations, HPP, TPP and similar facilities.

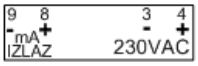
The **MPF 125 module** uses a microcontroller. The measurement method is based on measuring the duration of the period of the alternating voltage signal. The input voltage of the supply is also used as an input signal. Galvanic isolation is provided between the input and output current signals. The converter averages the measured frequency value over a time interval of 320ms.

Technical Specifications

Measurement method	Measurement of the period duration of alternating voltage
Frequency measuring range	48-52Hz, 45-55Hz
Rated frequency	50Hz
Output signal ranges	[4÷20]mA, [0÷20]mA,[-20÷+20]mA, [1÷10]mA, [0÷10]mA, [-10÷+10]mA, [0÷5]mA,[-5÷+5]mA
Output value averaging period	320ms
Supply voltage / input voltage	[90÷250]V AC
Power consumption	<2VA
Output load capability	500Ω
Accuracy under rated conditions	0,2%
Linearity	0,1%
Temperature influence	0,1%/25°C
Operating temperature	[-10÷+55]°C
Storage temperature	[-10÷+55]°C
Supply voltage range	[100÷230]V AC







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