

MMU 3 – Modular measuring equipment for the DIN top hat rail

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data sheet

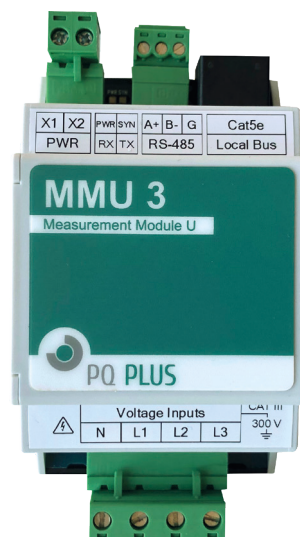
MMU 3

The voltage module MMU 3 serves as an alternative basis of a modular measurement system if no master with local bus connection (e.g. MMB 700) is available or an additional voltage has to be measured.

It can be connected to up to 5 MMI 12 current modules and the measured values can be tapped via the RS485 interface.

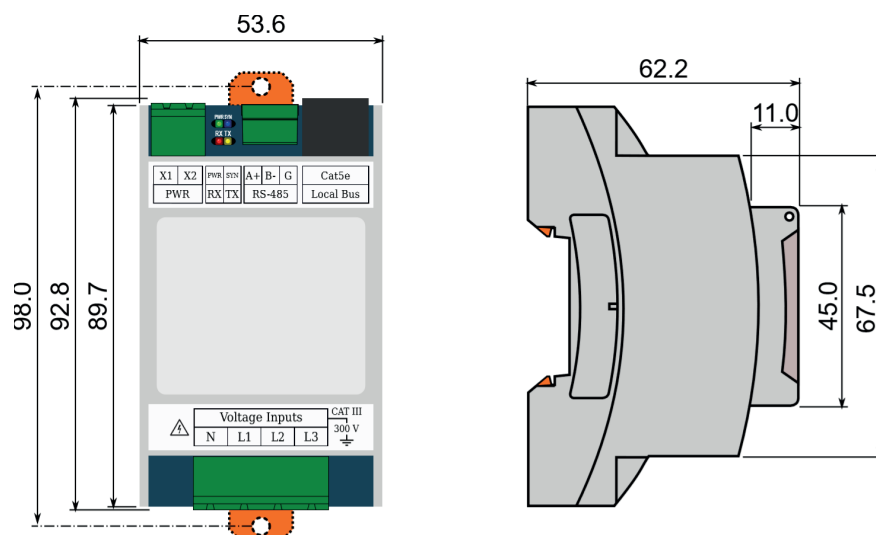
Application:

The device is used for continuous monitoring of the voltages for the arranged MMI 12.



Supply voltage	Measurement voltage		Measuring inputs	Functions			Communication					Type	Item number
24 V DC	5 - 1470 V LL	8 - 620 V LL	Number	Digital inputs/ outputs	Memory size in MB	Clock	Local Bus	RS485	Ethernet	Gateway Modbus master	USB		
•	-	•	3U	-	-	-	•	•	-	-	-	MMU 3	10.46.9001

Dimensional drawings



Technical specifications - MMU 3

MMU 3					
Communication	Interfaces	RS485, Local Bus			
	Communication protocols	Modbus RTU			
Data logger	Storage capacity and allocation	None			
	Measured value storage	None			
Electrical connection	Supply voltage	24 V variant: 10 - 29 V DC			
	Power input	1.5 W			
	Overvoltage category	CAT III / 300 V			
Accuracy classes		Voltage: Cl. 0.05	Frequency: Cl. 0.02		
		Active power: Cl. 1	Reactive power: Cl. 2	Apparent power: Cl. 1	
		Harmonic oscillations: Cl. 1	Power factor: Cl. 0.5	cos phi: Cl. 0.5	
		Real energy: Cl. 1	Reactive energy: Cl. 2	Apparent energy Cl. 0.5	
Measuring inputs	Voltage	U L-N: 8 - 350 V AC			
		U L-L: 14 - 610 V AC			
	Overload voltage	Permanent U L-N: 1355 V AC / peak overload for max. 1 sec. U L-N: 2140 V AC			
	Frequency	40 ... 70 Hz (DC-500 mode: 0 ... 500 Hz)			
	Input impedance voltage	6.12 MOhm			
	Input load voltage	< 0.05 VA			
	Harmonics per order	1st ... 25th of the voltage			
Mechanical attributes	Measurement procedure	IEC 61000-4-30			
	Operating temperature range	-25 - 60 °C at < 95 % relative humidity			
	Bearing temperature range	-40 - 80 °C at < 95 % relative humidity			
	Protection class front / total	IP 40 / IP 20			
	Dimensions WxHxD	54 x 94x 61 mm			
Internal real-time clock	Weight	0.11 kg			
	Accuracy	None			
	Possible synchronisation	None			

* depending on the variant