

M411

Electronic Voltage Burden



Electronic Voltage Burden **M411** is a modern programmable device used as a load in the secondary circuits of Voltage Transformers during their verification and calibration.

With the wide programmable burden power range provided, most national and international standard burdens or specific customer values can be set.

FEATURES AND BENEFITS

- ▲ Wide range of burden power values for VT in accordance with standards: IEC 61869-3, IEC 61869-5, IEC 60044-2, IEC 60044-5, IEEE C57.13, GOST 23625, GOST 1983
- ▲ Standard and non-standard values of burden power with standard and non-standard rated secondary voltages
- ▲ Extended range of rated voltage factor F_v up to 2,5
- ▲ 100 % and 25 % rated burden power, PF = 0,8 at rated frequency 50 and 60 Hz
- ▲ 100 % and 0 % rated burden power, PF = 1 at rated frequency 50 and 60 Hz
- ▲ Compensation resistance of the cable used for connect to the secondary winding
- ▲ Connection to two branches of a multiple-tapped winding
- ▲ Simple use by intuitive user interface
- ▲ The ability for the user to create his own range of frequently used burden values
- ▲ Possibility of using with automated VT calibration systems
- ▲ Small size and low weight

APPLICATIONS

M411 is used by:

- ▲ Manufacturer of Voltage Transformers
- ▲ On-site testing of Voltage Transformers
- ▲ Calibration Laboratories
- ▲ Metrology Institutes

TECHNICAL SPECIFICATIONS

Rated burden voltage U_{Sr} , V	Rated voltage factor F_V	Rated burden power S_r , V·A	Power factor PF	Rated frequency f_R , Hz
100/3 ... 150/3	1,2	1,25 ... 600	0,8	50; 60
	1,9	1,25 ... 500		
	2,5	1,25 ... 100		
		1 ... 10	1	
150/3 ... 200/3 100/√3...120/√3	1,2	1,25 ... 1200	0,8	
	1,9	1,25 ... 500		
	2,5	1,25 ... 100		
		1 ... 10	1	
200/3 ... 240/3 120/√3...415/√3 100 ... 240	1,2	1,25 ... 1200	0,8	
	1,9	1,25 ... 500		
		1 ... 10	1	
120/√3 120	1,5	12,5	0,1	
		35	0,2	
		25	0,7	
		75; 200; 400	0,85	

Secondary voltage range U_s $0,02 \cdot U_{Sr} \dots F_V \cdot U_{Sr}$

Active and reactive power errors $\pm 0,03 \cdot S^{**}$

Power mains

Rated voltage 110 ... 240 V
 Rated frequency 50/60 Hz














Operating temperature 0...40 °C
 Relative humidity up to 95 % non-condensing

Size 460 × 280 × 460 mm

Weight 34 kg

$$** S = (U_s / U_{Sr})^2 \cdot S_r$$

ORDERING INFORMATION

No	Item Name	Part no.	
Scope of supply:			
1	M411 Electronic Voltage Burden	M411.100	
2	Measuring Cable MC (three-wire)	M411.010	
3	Measuring Cable MC (two-wire)	M411.020	
4	Power Cord 10 A EU (CEE 7/XVII - C13)	—	
5	Clip Connector, red	M411.030	
6	Clip Connector, black	M411.040	
7	«O» Connector, red (2 pc.)	LB 4-RKS NI/8.4/RT	
8	«O» Connector, black (1 pc.)	LB 4-RKS NI/8.4/SW	
9	«U» Connector, red (2 pc.)	PJADA3034-R	
10	«U» Connector, black (1 pc.)	PJADA3034-R	
11	«U» Connector, red (2 pc.)	LB 4-KS NI/9/RT	
12	«U» Connector, black (1 pc.)	LB 4-KS NI/9/SW	
13	«I» Connector, red (2 pc.)	ADA86/F/1.8-RT	
14	«I» Connector, black (1 pc.)	ADA86/F/1.8-SW	
15	Operating manual	M411 OM	
16	Passport	M411 P	
17	Transport box	M411.900	

OLTEST LLC

Development and production
of measurement devices

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