

M410

Electronic Voltage Burden



Electronic Voltage Burden M410 is a programmable device used as a burden in the secondary circuits of voltage transformers during their verification and calibration

FEATURES AND BENEFITS

- ▲ Wide range of burden power values for voltage transformers in accordance with standards: IEC 60044, IEC 61869
- ▲ Rated secondary voltages: 100/3, 100/√3, 100, 110/3, 110/√3, 110 V
- ▲ Rated power range:
 - from 1 to 10 VA, $\cos \varphi = 1$ at 50 Hz
 - from 5 to 600 VA, $\cos \varphi = 0,8$ at 50 Hz
- ▲ Sets 100 % and 25 % rated power
- ▲ Compatible for integration into a computer -controlled test system combined with Voltage Transformer Test Set M210/M211
- ▲ Voltage overload protection
- ▲ Wide range of emulated burden ratios
- ▲ Small size and low weight

VERSIONS

Electronic Voltage Burden **M410** is available in two versions:

- ▲ **M410.1** sets a burden in a range 20...120 % of rated voltage
- ▲ **M410.2** sets a burden:
 - over 120 VA in a range 20...120 % of rated voltage
 - from 1 to 100 VA in a range 20...200 % of rated voltage

APPLICATIONS

Electronic Voltage Burden **M410** is used by:

- ▲ Manufacturer of Voltage Transformers
- ▲ On-site testing of Voltage Transformers
- ▲ Calibration laboratories
- ▲ Metrology institutes

TECHNICAL SPECIFICATIONS

Rated voltage, V	cos φ	Rated power, VA	
		M410.1	M410.2
100, 100/ $\sqrt{3}$	0,8	10; 15; 25; 30; 50; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600	5, 10; 15; 20; 25; 30; 50; 60; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600
100, 100/ $\sqrt{3}$	1,0	–	1, 2; 2,5; 3; 4, 5, 6, 7, 8, 9, 10
100/ $\sqrt{3}$	0,8	10; 15; 25; 30; 50; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600	5, 10; 15; 20; 25; 30; 50; 60; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600
100/ $\sqrt{3}$	1,0	–	1, 2; 2,5; 3; 4, 5, 6, 7, 8, 9, 10
100/3, 110/3	0,8	10; 15; 20, 25; 30; 50; 75; 100; 120; 150; 200	5; 10; 15; 20; 25; 30; 50; 60; 75; 100; 120; 150; 200
100/3, 110/3	1,0	–	1, 2; 2,5; 3; 4, 5, 6, 7, 8, 9, 10
110, 110/ $\sqrt{3}$	0,8	–	5, 10; 15; 20; 25; 30; 50; 60; 75; 100; 120; 150; 200; 300; 360; 400; 500; 600
110, 110/ $\sqrt{3}$	1,0	–	1, 2; 2,5; 3; 4, 5, 6, 7, 8, 9, 10
Sets 100 % and 25 % rated burden power			

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

Power mains

Rated voltage 220/230 V
 Rated frequency 50 Hz

Operating temperature 0...40 °C

Relative humidity up to 80 % non-condensing

Size (W × H × D) 250 × 140 × 335 mm

Weight 9,5 kg

Standards






Safety EN 61010-1:2010
 EMC EN 61326-1:2013

* Set burden power value.

ORDERING INFORMATION

Scope of supply

The following items are supplied with the standard M410 modification:

No	Item	Part no.	
1	Main unit M410.1* M410.2	411648.003-01 411648.003-02	
2	IC Instrument cable (2,5 m)	685611.084	
3	Mains cable 10 A EU (CEE 7/XVII - C13)	—	
4	Bag	323382.007	
5	Operating manual	411648.003 OM	
6	Passport	411648.003 P	
Additional order			
7	IC Instrument cable (5 m)	685611.084-01	

* Version is determined when ordering.

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Development and production
of measurement devices

POSTAL ADDRESS

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