M400

Electronic Current Burden

Electronic Current Burden M400 is designed to provide a programmable burden in the secondary circuits of current transformers during verification, calibration, and testing. The device is intended for use with current transformers having a nominal secondary current of 1 A

FEATURES AND BENEFITS

- Wide range of burden values according to standards: IEC 61869-2, IEC 60044-1, IEEE C57.13
- Rated current – 1 A
- Rated burden power range:
  0,5 to 50 VA, cos φ = 0,8 at 50 Hz
  0; 0,5 to 50 VA, cos φ = 1 at 50 Hz
- Input cable, contact and internal test set resistances are compensated by four-conductor connection
- Non-breaking measuring circuit during switching of the burden
- Possibility of using with automated current transformer calibration systems
- Small size and low weight

VERSIONS

Electronic Current Burden M400 is available in two versions:

- M400.1 allows current transformer calibration in secondary current range 1...120 % of rated current
- M400.2 allows current transformer calibration in secondary current range 1...150 % of rated current

APPLICATIONS

Electronic Current Burden M400 is used by:

- Manufacturer of Current Transformers
- On-site testing of Current Transformers
- Calibration laboratories
- Metrology institutes

TECHNICAL SPECIFICATIONS

Specification	Value	
Rated current	1 A	M400.1 M400.2
Current range	1...120 %	M400.1
	1...150 %	M400.2
Rated burden power for cos φ = 0,8	0,5; 0,75; 1; 1,25; 1,5; 1,75; 1,875; 2; 2,5; 3; 3,75; 4; 5; 6,25; 7,5; 10; 11,25; 12,5; 15; 20; 25; 30; 40; 45*; 50* VA	M400.1 M400.2
Rated burden power for cos φ = 1	0; 0,5; 0,75; 0,8; 1; 1,25; 1,5; 1,875; 2; 2,5; 3,75; 4; 5; 6; 7,5; 10; 12,5; 15; 30; 50* VA	M400.1 M400.2
Active and reactive power error	± 0,03·S* * for 0,8 < S < 50 VA	M400.1 M400.2
	± 0,04·S for S = 0,75 VA	
	± 0,06·S for S = 0,5 VA	
	± 0,05 VA for S = 0 VA	

* Burden power values are possible for 1 to 120 % of rated current.
** Setted burden power value.

Power mains Rated voltage Rated frequency	 220/230 V 50 Hz
Operating temperature	0...40 °C
Relative humidity	up to 80 % non-condensing
Size (W × H × D)	250 × 140 × 330 mm
Weight (Main unit)	5 kg
Standards Safety EMC	 EN 61010-1:2010 EN 61326-1:2013

ORDERING INFORMATION

Scope of supply

The following items are supplied with the **standard M400 modification**:

No	Item		Part no.	
1	Main unit	M400.1* M400.2	411648.001-01 411648.001-02	
2	IC Instrument cable (1,8 m)		685611.195-01	
3	Serial port interface cable RS232 Null Modem Cable DB9 F/F		–	
4	Mains cable 10 A EU (CEE 7/XVII - C13)		–	
5	Jumper wire		685611.030	
6	Bag		323382.007	
7	Operating manual		411640.001 OM	
8	Passport		411640.001 P	
	Additional order:			
9	IC Instrument cable (5 m)		685611.196-01	
10	IC Instrument cable (10 m)		685611.197-01	

* Version is determinated when ordering.

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Development and production of measurement devices

POSTAL ADDRESS

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