

General Specifications

Ambient temperature	- 20 to + 60°C (- 4 to + 140°F)		
Connection cable	2 m PVC, 2 x 0.25 mm ²		
Weight	MI 5, MI 20	70 g	
	MI 100, MI 500	270 g	
Material/colour	ABS, light grey		

Mode of Operation

The metered conductor is drawn through the central hole of the current metering transformer. Drawing the conductor through the hole several times makes it possible to meter currents below the nominal range.

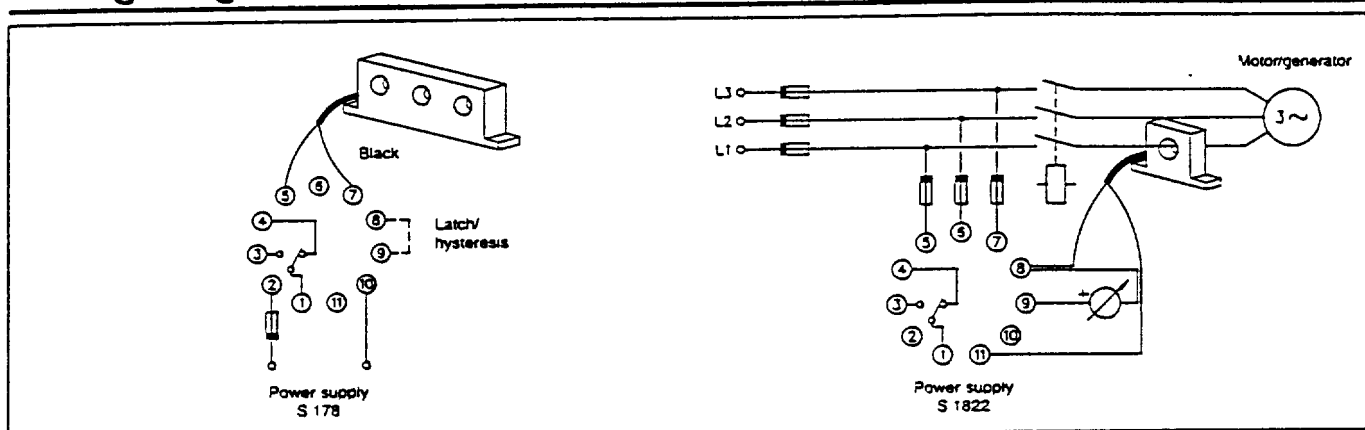
If the conductor is drawn through the central hole e.g. 5 times, the metering trans-

former will register 50 A when the current in the conductor is 10 A.

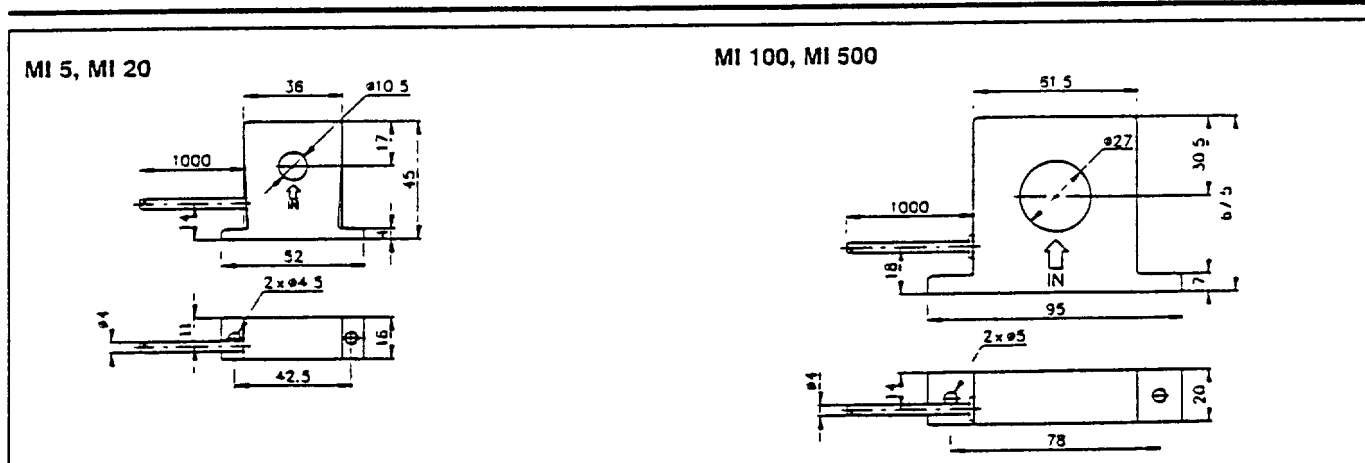
In amplitude and phase the output voltage is proportional to the phase current metered.

4 V_{peak} will then be equal to the RMS-value of the nominal phase current.

Wiring Diagrams



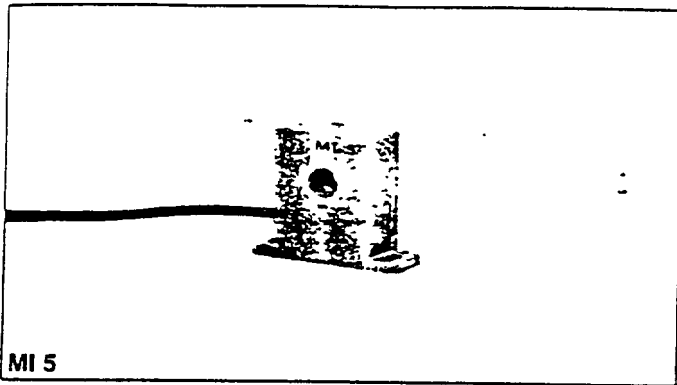
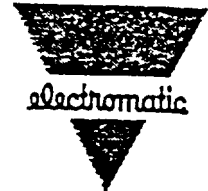
Dimensions



Type	A	B	C	D	E	F	G	H	I	J	K	L
MI 5, MI 20	10.7	36	52	4	17	45	14	4	42.5	16	10	4.5
MI 100, MI 500	27	61.5	95	7	30.5	67.5	18	4	78	20	14	5

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1-Phase AC Current Transformer Types MI 5, MI 20, MI 100, MI 500



- 1-phase current metering transformer for use together with control relays types:
S 178, S 278, S 180, S 280, S 1821, S 2821, S 1822, S 2822, SM 115, SY 115, H 478, H 479, H 480
- Measuring ranges:
MI 5: 0.5 - 5 AAC
MI 20: 2 - 20 AAC
MI 100: 10 - 100 AAC
MI 500: 50 - 500 AAC

Product Description

AC current transformers for 5, 20, 100, 500 AAC. Output voltage (0.4 - 4 VAC) is proportional to measured current.

Ordering Key MI 5

Type _____
Input current _____

Type Selection

Input current	Type no.
5 AAC	MI 5 ●
20 AAC	MI 20 ●
100 AAC	MI 100 ●
500 AAC	MI 500

● Stock item

Input Specifications

	MI 5	MI 20	MI 100	MI 500
Current range	0.5 - 5 AAC	2 - 20 AAC	10 - 100 AAC	50 - 500 AAC
Max. current (continuously)	20 AAC	50 AAC	250 AAC	750 AAC
Max. overload current (t = 30 s)	40 AAC	85 AAC	325 AAC	1000 AAC
Insulation voltage Input-output	1500 VAC	1500 VAC	1500 VAC	1500 VAC
Power consumption	< 100 mW/5 A	< 100 mW/20 A	< 0.5 W/100 A	< 6 W/500 A

Output Specifications

	MI 5	MI 20	MI 100	MI 500
Voltage output (T _A = 20°C, R _L = 9.5 kΩ)	0.4 - 4 V _p	0.4 - 4 V _p	0.4 - 4 V _p	0.4 - 4 V _p
Output impedance	< 700 Ω	< 200 Ω	< 40 Ω	< 10 Ω
Tolerance of output voltage @ rated input current	±5%	±5%	±5%	±5%
Temperature variation	±0.1% per °C	±0.1% per °C	±0.1% per °C	±0.1% per °C