

ELKOR MOC1 - TRUE RMS 3 PHASE POWER TRANSDUCER

SPECIFICATIONS

INPUT:

Voltage: 600/347VRMS
480/277VRMS
230/127VRMS
208/120VRMS
240/120 (Split Phase)

Approved isolating transformer(s), will be provided with the MOC1.

In most applications only one transformer is sufficient (please refer to ordering inf.).

Current: 5A from standard CTs (MOC1-CT);

MCTs 5A primary (MOC1-MCT)

Max. Ratings: Voltage - 700 VRMS

OUTPUT SIGNALS:

Pulse - reed relay, SPDT contact, 500mA maximum @24V, proportional to energy consumption (Wh), Max.0.1 Hz, 50% duty cycle or 100 ms pulse (opto -open collector)
Analog - two 0-5VDC (4-20mA) signals; one proportional to instantaneous Watts, second to either specified parameter: kVA, Averaged Current, Averaged Voltage or PF.

POWER SUPPLY REQUIREMENTS:

3 VA/12VAC - the 'on board' power supply uses 12VAC input supplied by the voltage isolating transformer (VT) provided with the board.

ACCURACY:

0.5% TRMS FS for current;
0.8% TRMS of full rated span for all other measured and calculated parameters (MOC1-3 and MOC1-2 @ rated frequency, PF1.0 to 0.7)

ENVIRONMENT:

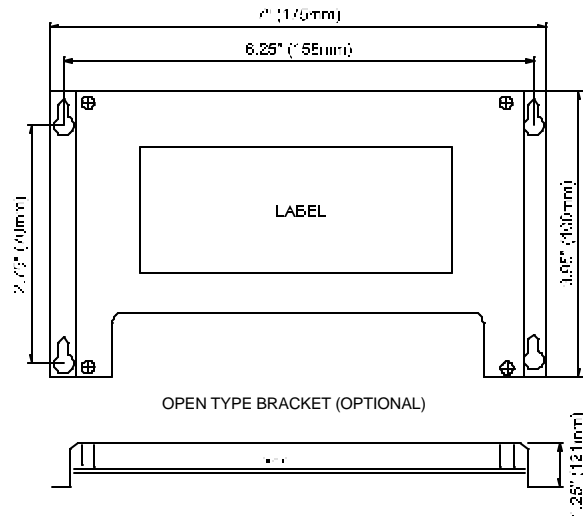
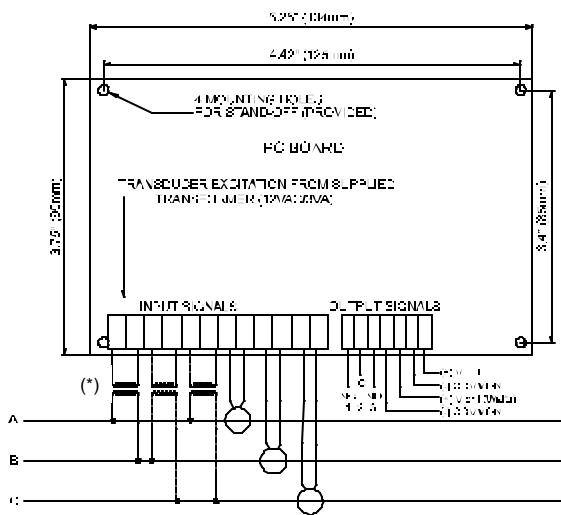
Indoor; 0-50 C, 10-90%RH non-condensing.

WARRANTY:

Full two years manuf acturer's warranty.

Contact *ELKOR Technologies Inc.* for specification details.

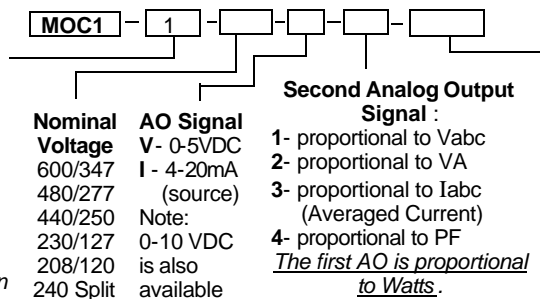
INSTALLATION DETAILS



ORDERING INFORMATION

Number of Voltage Inputs (Isolating Transformers) Required:

1- One transformer
NOTE: (*) *In most applications the system voltage at the source is reasonably equal in all phases, even with the unbalanced load. The MOC1-1 can use only one transformer applied between two phases.*



Nominal Voltage
600/347
480/277
440/250
230/127
208/120
240 Split

AO Signal
V- 0-5VDC
I - 4-20mA (source)
Note:
0-10 VDC is also available

Second Analog Output Signal :

- 1- proportional to Vabc
 - 2- proportional to VA
 - 3- proportional to Iabc (Averaged Current)
 - 4- proportional to PF
- The first AO is proportional to Watts.*

Current Input:

CT - 5A standard CT input (3 CTs are required for most systems)¹

MCT - mV Current Sensors; see MCT data sheet, split core also available

(¹) *ELKOR may supply standard 5A CTs and MCTs in most sizes, including split core units. Please ask for quotation specifying the CT ratio and the required window size.*

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