

OPEN CIRCUIT PROTECTORS

OPEN CIRCUIT PROTECTOR

MODEL OCP

APPLICATIONS

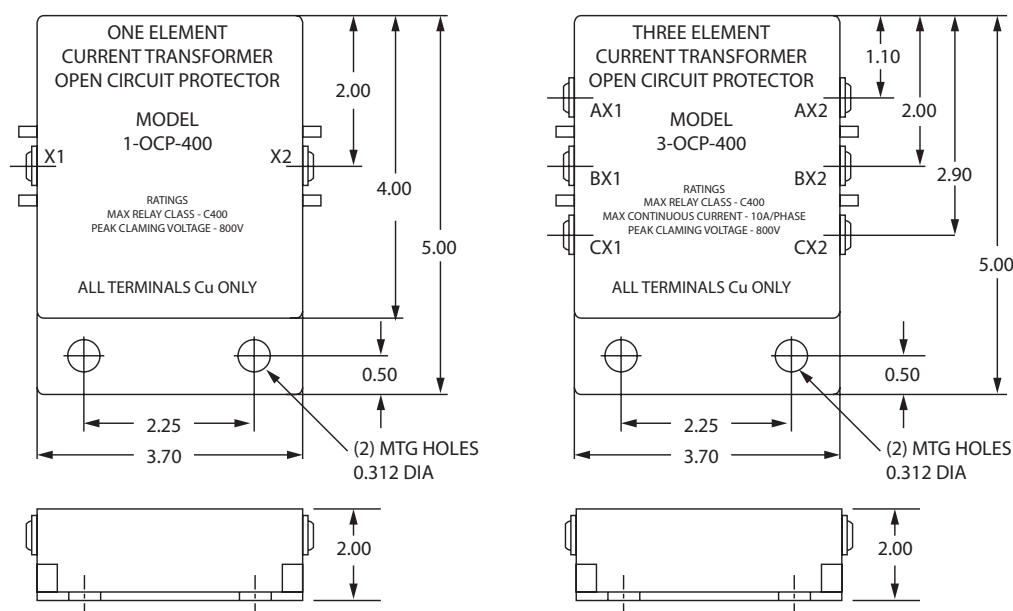
Open circuit protection for relay classes through C400 and all classes through C400 and Metering classes.
 Frequency 50-400Hz
 Ambient Temperature Range -30°C to +55°C
 Normal Secondary Current 5Aac
 Short Time Overcurrent... 100A for 1 Sec (80A for 2 Sec.)
 Max. Continuous Current..... 10A through one element or 7.5A through all three independent elements.
 Terminals ...Copper with brass slotted pan head screws.
 No 8-32 x 1/4, with cupped washers.
 Weight 1.2 Lbs.



1 ELEMENT OPEN CIRCUIT PROTECTOR			
CATALOG #	RECOMMENDED CT RELAY CLASS	CLAMPING PEAK VOLTAGE LIMIT (V PEAK NOM)	STANDARD RELAY BURDEN (Ω)
1-OCP-100	Thru C100	200	1
1-OCP-200	C200	400	2
1-OCP-400	C400	800	3

3 ELEMENT OPEN CIRCUIT PROTECTOR			
CATALOG #	RECOMMENDED CT RELAY CLASS	CLAMPING PEAK VOLTAGE LIMIT (V PEAK NOM)	STANDARD RELAY BURDEN (Ω)
3-OCP-100	Thru C100	200	1
3-OCP-200	C200	400	2
3-OCP-400	C400	800	3

DIMENSIONS



All Dimensions In Inches

FLEX-CORE®

Div. Morlan & Associates, Inc.

4970 Scioto Darby Rd. Hilliard, Ohio 43026

WWW.FLEX-CORE.COM

sales@flex-core.com

PHONE (614) 889-6152

TECH. ASSISTANCE (614) 876-8308

FAX # (614) 876-8538

OPEN CIRCUIT PROTECTORS

OPEN CIRCUIT PROTECTOR MODEL OCP

SPECIFICATIONS

A current transformer secondary should never be open circuited while the current transformer primary circuit is energized. If this situation should occur there is a possibility of developing extremely high voltages which could be dangerous to personnel or cause an insulation breakdown.

The OCP series of open circuit protectors are voltage sensing devices using high speed shorting SCR switches. When the secondary peak voltages exceeds the clamping voltage value, the SCR operates, shorting the C.T. secondary and reducing the voltage to about 2 volts in less than 1/4 cycle. This process repeats each current polarity reversal. The protection is activated each half cycle.

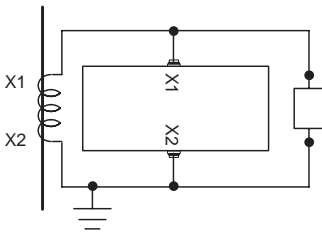
The single element open circuit protector is provided with two terminals and the three element open circuit protector is provided with six terminals for connection across the secondary of the C.T.s and parallels with burden. It can also be connected across the current terminals of a protective relay, meter, or other current operated device without affecting the operation of the device. Secondary polarity of the C.T.s is not critical to the OCP.

The OCP also provides protection against high secondary voltage transients, which may damage the burden or secondary winding. If the transient voltage exceeds the voltage clamping limit, the Open Circuit Protector will trigger. After triggering, the voltage will fall to about 2 volts and remain there until the next zero crossing of the current waveform, at which time the device resets and the cycle repeats as necessary. In the transient mode of protection, triggering will occur only on the half cycle where the transient appears. The leakage current of the OCP is insignificant and will not cause a ratio or phase angle error in the current transformer accuracy.

Metering class C.T.s with a rating factor of 2 could operate up to 10 amps on a continuous basis. Relaying class C.T.s are designed to withstand short time overloads up to 20 times normal (100 amps RMS) for 2 seconds. The OCP is designed to tolerate both this condition and overload conditions of 80 amps RMS for 2 seconds.

CONNECTION DIAGRAMS

**TYPICAL
1 ELEMENT CONNECTION DIAGRAM
1-OCP-XXX**



**TYPICAL
3 ELEMENT CONNECTION DIAGRAM
3-OCP-XXX**

