URC Utility Relay Co. 10100 Queens Way, Chagrin Falls Ohio 44023
440-708-1000 PHONE 440-708-1177 FAX

Check us out on the WEB: www.utilityrelay.com

Declaration of Conformity

We, Utility Relay Co., of the above address declare under our sole responsibility that the products shown below are in conformity with the standards indicated per the revisions of the referenced Directive.

PRODUCTS	DESIGNATION	DIRECTIVE	STANDARD	CE MARK AFFIXED
AC Circuit Breaker Electronic Trip Unit	AC-PRO-MP AMP-SAFE-PRO	EMC 2004/108/EC	EN60947-2:2006, A1:2009 • EN61000-4-2:2009 • EN61000-4-3:2006 • EN61000-4-4:2004 • EN61000-4-5:2006 • EN61000-4-6:2007 EN55011:2007	2013

This declaration is issued from the location shown above on the 3rd day of June, 2013.

Issued by Helmut Weiher, Engineering Manager

URC Utility Relay Co.
10100 Queens Way, Chagrin Falls Ohio 44023
440-708-1000 PHONE
440-708-1177 FAX

AC-PRO MP RF Susceptibility Test

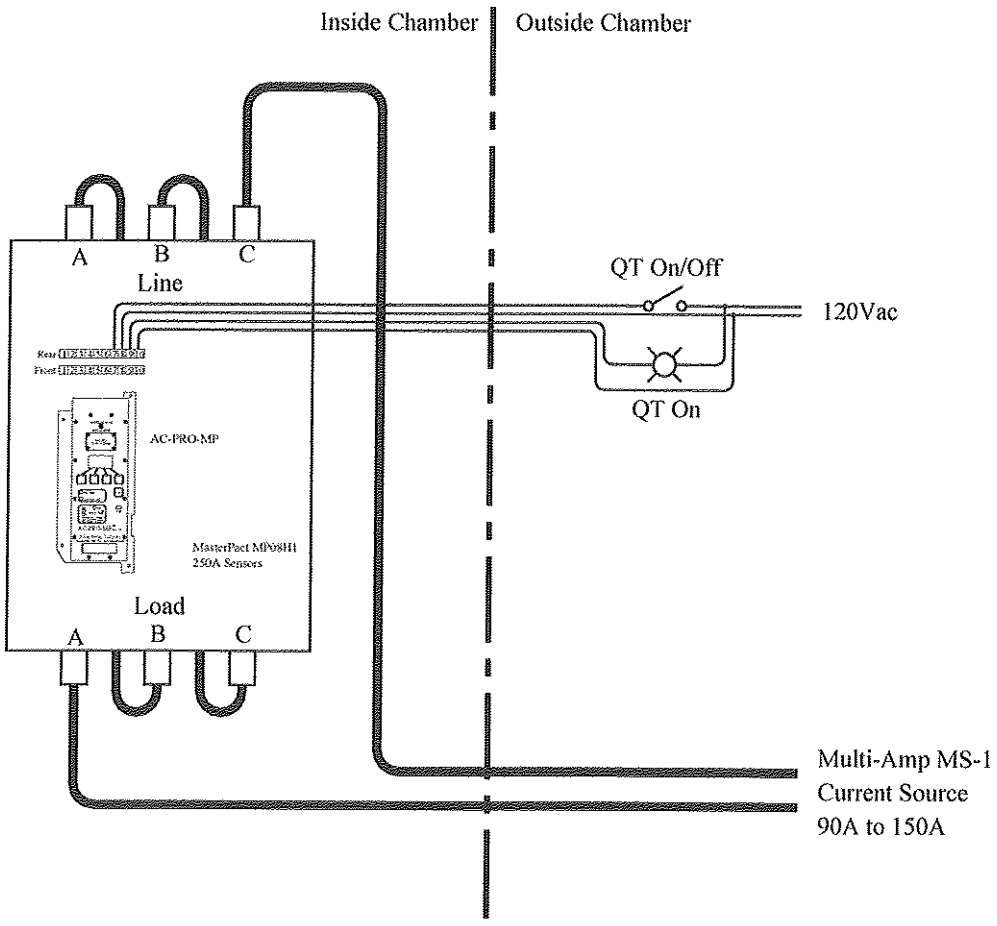
RF Susceptibility Tests

Test Per IEEE C37.90.2-2004
1. Frequency sweep or step test.
2. Keying test.
3. Spot frequency test.

Setup:

The AC-PRO-MP trip unit is connected to a remote Quick-Trip Switch and indicator, and is installed on a MasterPact MP08 H1 breaker with 250 Amp CTs.

A portable test-set is used to inject 60-Hertz primary current into the breaker.



Setup for RF Test

AC-PRO-MP settings:

STR type	*58U*
Frequency	*60 Hz*
H1/N1	*ON*
CT Rating	*250 Amp*
Long Time pick-up	*100 Amp*
Long Time delay	*15 sec.*
Short Time pick-up	*150 Amps*
I squared T	*Off*
Delay	*.40*
GF	*Off*
Instantaneous pick-up	*5500*
QT Instantaneous	*5500*
QT GF	*Off*
Load Monitor 1,2	*Off*
FV segregated	*No to all*

Test Configuration:

Major Equipment inside Shielded Room:

1) MasterPact MP08 H1 Breaker (w/250A CTs) with AC-PRO-MP and actuator
2) Short jumper cables between phases on breaker

Major Equipment outside Shielded Room:

1) Multi-Amp MS-1 Test Set & Long Cable W/Lugs to power trip unit through CTs
2) Quick-Trip remote switch and indicator

System Setup:

1) Single-phase primary current source to breaker
2) 120Vac source for remote Quick-Trip switch and indicator

Mode of Observations during RFI Tests:

Pick-Up and Breaker Trip Tests:

Occasionally increase Multi-Amp current from 90A to 120 Amp and check for Pick-Up LED.
Occasionally turn remote Quick-trip switch on and check for both QT indicators.
Occasionally increase Multi-Amp current above 150A to check for proper breaker trip (15 Sec).

Monitor for:

1. Breaker false trip caused by AC-PRO-MP under test
2. Proper breaker trip with current increased to greater than 150A
3. Display corruption on AC-PRO-MP
4. False displayed current on AC-PRO-MP under test
5. False LED operations with current below & above LT Pick-Up on AC-PRO-MP
6. False remote QT indicator operation

AC-PRO-MP settings:

STR type	*58U*
Frequency	*60 Hz*
H1/N1	*ON*
CT Rating	*400 Amp*
Long Time pick-up	*160 Amp*
Long Time delay	*15 sec.*
Short Time pick-up	*240 Amps*
I squared T	*Off*
Delay	*.40*
GF	*Off*
Instantaneous pick-up	*5600*
QT Instantaneous	*4600*
QT GF	*Off*
Load Monitor 1,2	*Off*
FV segregated	*No to all*

Test Configuration:

Major Equipment inside Shielded Room:

1) MasterPact MP08 H1 Breaker (w/400A CTs) with AC-PRO-MP and actuator
2) Short jumper cables between phases on breaker

Major Equipment outside Shielded Room:

1) Multi-Amp MS-1 Test Set & Long Cable W/Lugs to power trip unit through CTs
2) Quick-Trip remote switch and indicator

System Setup:

1) Single-phase primary current source to breaker
2) 120Vac source for remote Quick-Trip switch and indicator

Mode of Observations during RFI Tests:

Pick-Up and Breaker Trip Tests:

Occasionally increase Multi-Amp current from 90A to 120 Amp and check for Pick-Up LED.
Occasionally turn remote Quick-trip switch on and check for both QT indicators.
Occasionally increase Multi-Amp current above 150A to check for proper breaker trip (15 Sec).

Monitor for:

1. Breaker false trip caused by AC-PRO-MP under test
2. Proper breaker trip with current increased to greater than 150A
3. Display corruption on AC-PRO-MP
4. False displayed current on AC-PRO-MP under test
5. False LED operations with current below & above LT Pick-Up on AC-PRO-MP
6. False remote QT indicator operation