

SURGE PROTECTOR WIRING DIAGRAMS (FOR SERIES-WIRED INSTALLATION - PREFERRED)

CAUTION: LOAD CURRENT MUST BE 10 AMPS OR LESS FOR SERIES CONNECTION. PARALLEL CONNECTION MUST BE USED IF LOAD CURRENT GREATER THAN 10 AMPS OR HIGH-INRUSH LOAD.

INSTRUCTIONS FOR DINRAIL MOUNTING

- 1) LOCATE WIRE SPRING ON BACK OF BASE. IT IS IN THE BOTTOM BRACKET. IMPORTANT: THE BRACKET WITH THE SPRING IS SECURED TO THE BOTTOM OF THE DINRAIL.
- 2) IN AN UPWARD MOTION, CATCH BOTTOM OF BASE ON BOTTOM OF DINRAIL AND PUSH UP TO BEND THE SPRING.
- 3) WHILE PUSHING UP TO BEND SPRING, PUSH TOP OF BASE OVER TOP OF DINRAIL.
- 4) RELEASE BASE. MOUNTING COMPLETE. GENTLY PULL ON BASE TO ENSURE PROPER MOUNTING.

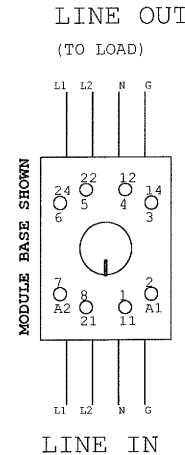
INSTRUCTIONS FOR WIRING PROTECTOR (SERIES CONNECTION)

WIRING THE PROTECTOR IN SERIES WITH THE LOAD MEANS THE PLUG IN PROTECTION MODULE CONDUCTS LOAD CURRENT. REMOVAL OF THE MODULE AND/OR DAMAGE TO THE MODULE WILL REMOVE ALL OR PARTIAL POWER TO THE LOAD. SERIES CONNECTION IS PREFERRED, UNLESS LOAD CURRENT EXCEEDS 10 AMPS.

NOTE: SERIES INSTALLATION SHALL NOT EXCEED 10 AMPS OF LOAD CURRENT. PROTECTOR CONTAINS INTERNAL FUSES RATED AT 10 AMPS.

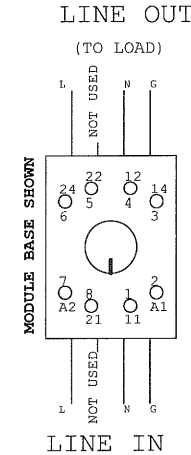
- 1) CAUTION: DO NOT INSTALL DURING A THUNDERSTORM.
- 2) VERIFY THAT MODULE VOLTAGE & SERVICE IS EQUIVALENT TO THE EQUIPMENT.
- 3) BEFORE INSTALLING, MAKE SURE INCOMING POWER IS TURNED OFF. CHECK WITH VOLTMETER TO VERIFY THAT POWER IS OFF.
- 4) LOCATE THE CORRECT WIRING DIAGRAM FOR YOUR INCOMING POWER. FOR EXAMPLE: FIG. 1 IS FOR SERIES WIRED, 120/240VAC SINGLE PHASE SYSTEMS.
- 5) STRIP INPUT AND OUTPUT WIRES 3/8" (9.5mm). TWIST ENDS OF STRANDED WIRES. INSERT WIRES INTO APPROPRIATE TERMINALS AND TIGHTEN SCREWS. SUPPORT BASE WHILE TIGHTENING TO PREVENT DAMAGE TO BASE.
- 6) DOUBLE CHECK WIRING INTEGRITY ENSURING THAT WIRES ARE SECURE AND THE INPUT AND OUTPUT WIRES CORRESPOND.
- 7) INSTALL MODULE SECURELY. IMPORTANT: THE MODULE IS KEYED SO IT WILL ONLY INSTALL WITH THE KEYED PART FACING DOWN (WHEN BASE IS RIGHT SIDE UP). THE KEY IS ON THE CIRCUIT BOARD SIDE OF THE MODULE.
- 8) APPLY POWER AND OBSERVE TWO LIGHTS INSIDE SURGE PROTECTION MODULE ILLUMINATED. THIS MEANS FULL PROTECTION PRESENT.

**FIGURE 1
FOR 120/240VAC, SPLIT
PHASE (L1, L2, N, & G)
SYSTEMS**



MODULE TYPE:
USES CCP120/240 MODULE

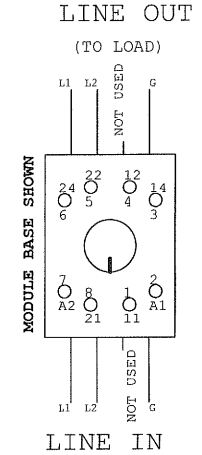
**FIGURE 2
FOR 120,127,220,230,240VAC,
SINGLE PHASE (L,N,& G)
SYSTEMS**



NOTE: L2 (8 & 5) TERMINALS NOT USED

MODULE TYPE:
USES CCP120,220,230,OR 240 MODULE

**FIGURE 3
FOR 120/240VAC, SPLIT PHASE
(USE L1, L2, & G) SYSTEMS
OR 240 DELTA
(NO NEUTRAL PRESENT)**



NOTE: NEUTRAL (1 & 4) TERMINALS NOT USED
TWO HOT LEADS AND GROUND ONLY
MODULE TYPE:
USE CCP240LLG MODULE

NOTE: MAXIMUM WIRE GAUGE: 14 AWG

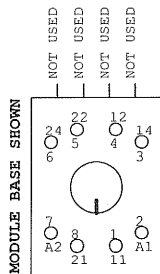
CAGE/FSCM	DRAWN BY: ADN	DATE: 170130	Title CCP SERIES WIRING DIRAGRAM - SERIES WIRED	
29779	CHECKED BY: ADN	170130	Size B Document Number 700-003-84 (299-601-44, page 1 of 2) Rev A	
	ENGINEER: ADN	170130		
	ENGR APPROVAL: ADN	170130	Date: Thursday, June 22, 2017	Sheet 1 of 1

SURGE PROTECTOR WIRING DIAGRAMS (FOR PARALLEL-CONNECTED PROTECTOR)

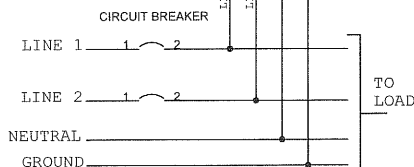
NOTE: PARALLEL CONNECTION MAY BE USED REGARDLESS OF LOAD CURRENT. BUT PARALLEL CONNECTION MUST BE USED IF LOAD CURRENT IS GREATER THAN 10A, OR IF LOAD IS A HIGH-INRUSH CURRENT LOAD.

FIGURE 4

FOR 120/240VAC, SPLIT PHASE (L1, L2, N, & G) SYSTEMS



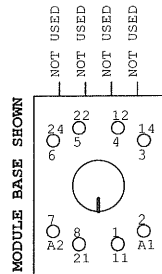
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USES CCP120/240 MODULE



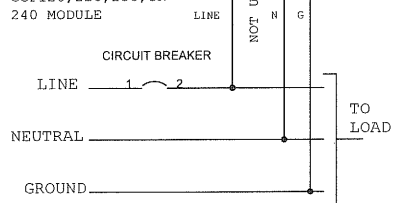
USE BOTTOM TERMINALS ONLY

FIGURE 5

FOR 120, 127, 220, 230, 240VAC, SINGLE PHASE (L, N, & G) SYSTEMS



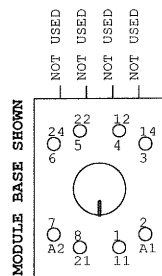
MODULE TYPE:
USES
CCP120, 220, 230, OR
240 MODULE



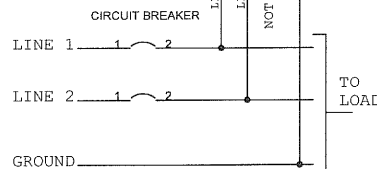
USE BOTTOM TERMINALS ONLY

FIGURE 6

FOR 120/240VAC, SPLIT PHASE (USE L1, L2, & G) SYSTEMS OR 240 DELTA (NO NEUTRAL PRESENT)



MODULE TYPE:
USE CCP240LLG MODULE

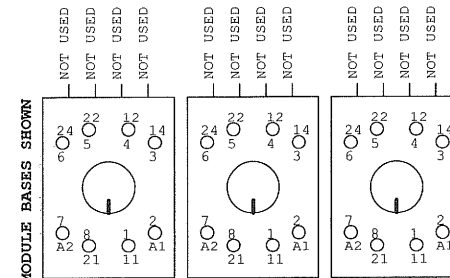


USE BOTTOM TERMINALS ONLY

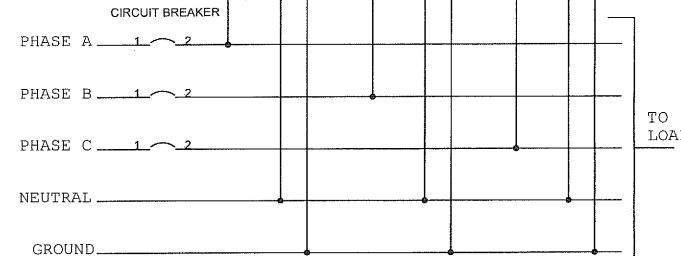
FIGURE 7

3 PHASE WYE SYSTEMS

(UP TO 240VAC L-N AND 415VAC L-L)



MODULE TYPE:
USES
CCP120, 220, 230, OR
240 MODULES



USE BOTTOM TERMINALS ONLY

NOTE: MAXIMUM WIRE GAUGE: 14 AWG

INSTRUCTIONS FOR DINRAIL MOUNTING

- 1) LOCATE WIRE SPRING ON BACK OF BASE. IT IS IN THE BOTTOM BRACKET. IMPORTANT: THE BRACKET WITH THE SPRING IS SECURED TO THE BOTTOM OF THE DINRAIL.
- 2) IN AN UPWARD MOTION, CATCH BOTTOM OF BASE ON BOTTOM OF DINRAIL AND PUSH UP TO BEND THE SPRING.
- 3) WHILE PUSHING UP TO BEND SPRING, PUSH TOP OF BASE OVER TOP OF DINRAIL.
- 4) RELEASE BASE. MOUNTING COMPLETE. GENTLY PULL ON BASE TO ENSURE PROPER MOUNTING.

INSTRUCTIONS FOR WIRING PROTECTOR (PARALLEL CONNECTION)

IF LOAD CURRENT EXCEEDS 10 AMPS, THEN PROTECTOR MUST BE WIRED IN PARALLEL WITH THE LOAD (EQUIPMENT TO BE PROTECTED). SEE INSTRUCTIONS BELOW.

- 1) CAUTION: DO NOT INSTALL DURING A THUNDERSTORM.
- 2) VERIFY THAT MODULE VOLTAGE & SERVICE IS EQUIVALENT TO THE EQUIPMENT.
- 3) BEFORE INSTALLING, MAKE SURE INCOMING POWER IS TURNED OFF. CHECK WITH VOLTMETER TO VERIFY THAT POWER IS OFF.
- 4) LOCATE THE CORRECT WIRING DIAGRAM FOR YOUR POWER. FOR EXAMPLE: FIG 4 IS FOR A 120/240VAC SINGLE PHASE SYSTEM.

5) STRIP WIRES 3/8" (9.5mm). TWIST ENDS OF STRANDED WIRES. INSERT WIRES INTO APPROPRIATE TERMINALS AND TIGHTEN SCREWS. ONLY INPUT TERMINALS/WIRES ARE USED. SUPPORT BASE WHILE TIGHTENING TO PREVENT DAMAGE TO BASE.

6) DOUBLE CHECK WIRING INTEGRITY ENSURING THAT WIRES ARE SECURE.

7) INSTALL MODULE SECURELY. IMPORTANT: THE MODULE IS KEYED SO IT WILL ONLY INSTALL WITH THE KEYED PART FACING DOWN (WHEN BASE IS RIGHT SIDE UP). THE KEY IS ON THE CIRCUIT BOARD SIDE OF THE MODULE.

8) APPLY POWER AND OBSERVE TWO LIGHTS INSIDE SURGE PROTECTION MODULE ILLUMINATED. THIS MEANS FULL PROTECTION PRESENT.

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