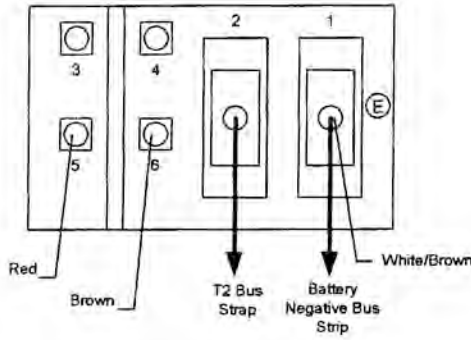


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	REV	DESCRIPTION	DATE	APPROVED
	R	01EV047 A.KOLOZVARY		John Harrison

DWC NO. 342A4219
SIZE A

Replacing MOSFET Modules with External Thermistors with IGBT Modules

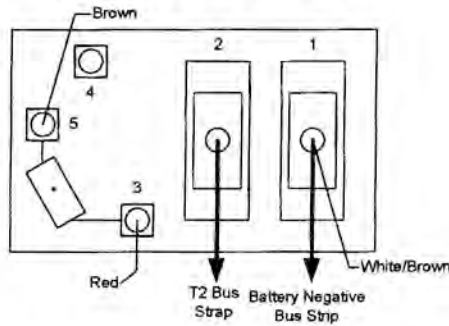
Connections for Existing MOSFET module with external thermistor, 328A1516BBP1E



A quantity of vendor supplied 328A1516BBP1 modules were produced with external thermistors. These modules were identified as 328A1516BBP1E, with the "E" marked on the module. When present, this external thermistor is mounted separately on the base and wired individually to the oscillator card. Also, the presence of the external thermistor eliminates two of the connections to the transistor module. The connections shown in the diagram made with the violet and white/violet wires are not required with the external thermistor.

When replacing a 328A1516BBP1E module with the external thermistor with a 328A1516CHP1 IGBT module, simply remove the original module, without disturbing the external thermistor. When connecting the new transistor module, there will only be one connection required to terminal 5 (normally the violet wire) and no connection required to terminal 4 (normally the white/violet wire) of the new module.

Connections for New IGBT module 328A1516CHP1 (leaving external thermistor undisturbed)



Plug Z	Wire	328A1516BBP1E	328A1516CHP1
Z1	White/Brown	T-1	T-1
Z2	Violet	T-3	none
Z3	Brown	T-6	T-5
Z4	Red	T-5	T-3
Z5	White/Violet	T-4	none

* Note: The external suppressor is a redundant circuit and may be omitted, if desired.

CONTROL SURFACES & DIMENSIONS
 (P) PROC.
 (E) ENG.
 (A) APPL.
 (R) REG.

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
DIMENSIONS ARE IN INCHES (mm)	DRAWN A.KOLOZVARY	5/6/01
TOLERANCES ON:	CHECKED J.HARRISON	
2 PL. DECIMALS ±.010	ENGRG	
3 PL. DECIMALS ±.005	ISSUED John Harrison	5/6/01
ANGLES ±1'		
FRACTIONS ±1/16		
THIRD ANGLE PROJECTION		

GENERAL ELECTRIC
 GENERAL ELECTRIC INDUSTRIAL SYSTEMS, SALEM, VA

INSTRUCTION

SIZE A	FSCM NO -	DWC NO 342A4219
SCALE .66	SHEET 4 AND FL.	

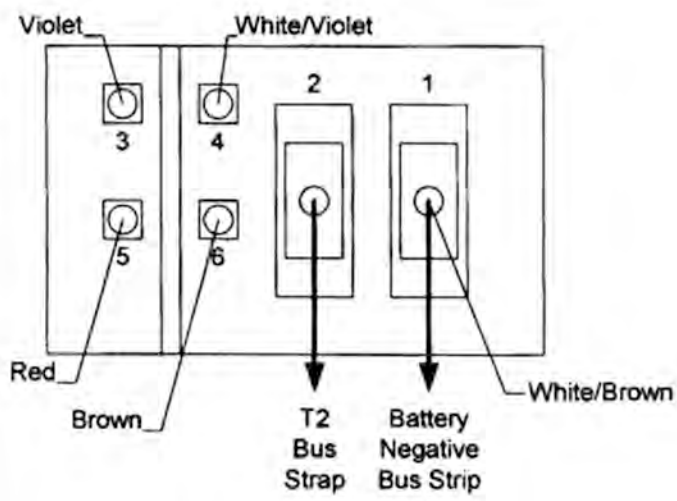
PR. 37, 44, 85, EVMK, EVNG, SAL



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	REV	DESCRIPTION	DATE	APPROVED		
	R	01EV006 J. Akers			John Harrison	
APPLIED PRACTICES : 342A4219	1	01EV047 A.KOLOZVARY	5/2/01	J.HARRISON		

SIZE A DWG NO. 342A4219

328A1516BBP1 or 328A1516BCP1

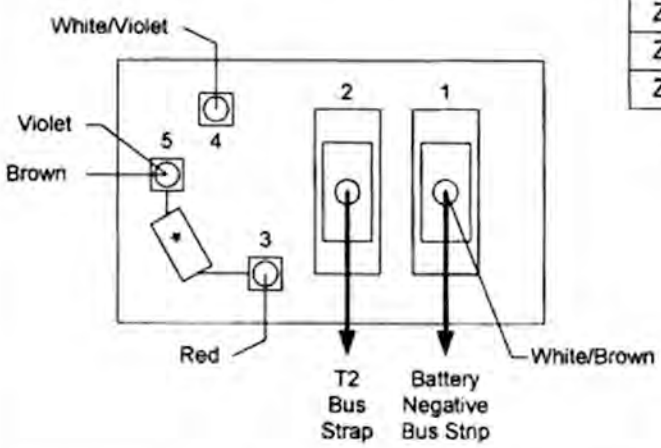


CONNECTION TABLE

Plug Z	Wire	328A1516BBP1 or 328A1516BCP1	328A1516CHP1
Z1	White/Brown	T-1	T-1
Z2	Violet	T-3	T-5
Z3	Brown	T-6	T-5
Z4	Red	T-5	T-3
Z5	White/Violet	T-4	T-4

GE P/N 328A1516CHP1
New layout now supplied

328A1516CHP1



* Note: The external suppressor is a redundant circuit and may be omitted, if desired.

CONTROL SURFACES & DIMENSIONS
 (P) PROC.
 (E) ENG.
 (A) APPL.
 (R) REG.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES/DIMS. TOLERANCES ON: 3 PL. DECIMALS ±.010 2 PL. DECIMALS ±.005 ANGLES ±1° FRACTIONS ±1/16	SIGNATURES	DATE
	DRAWN J. Akers CHECKED J. HARRISON ENGRG ISSUED John Harrison	1/16/01 1/19/01
THIRD ANGLE PROJECTION 		

GENERAL ELECTRIC
 GENERAL ELECTRIC INDUSTRIAL SYSTEMS, SALEM, VA

INSTRUCTION

SIZE A	FSCM NO -	DWG NO 342A4219
SCALE .66	SHEET 3 CONT. 4	



PR. 37. 44. 85, EVMK, EVNG, SAL



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	REV	DESCRIPTION	DATE	APPROVED
	R	01EV006 J. Akers	11/19/01	John Harrison

DWG NO. 342A4219
SIZE A

The vendor for GE part numbers 328A1516BBP1 has stopped production on these parts that are used on the GE EVT100 control. We have qualified a replacement part that will replace both of these devices. However, there will be a difference in how the new part will be wired since we are going from a 6-terminal device to a 5-terminal device to a 5-terminal device. The new replacement part number is 328A1516CHP1. All electrical and thermal parameters remain the same.

Please read and understand the following instruction before installing this device:

Most dimensions and connection point hardware remain unchanged. Although the terminal identification numbers have changed, the general connection location remains the same.

The new package should fit in the existing location and all mounting and connecting hardware/holes should align properly.

To properly install this device requires the slight relocation of (2) wires - all others are installed in the same general location. All other installation requirements remain the same, including the use of thermal grease.

Attached is a device view and wiring of the original 328A1516BBP1 & 328A1516BCP1 devices and the current new 5-terminal 328A1516CHP1 device with the proper connection locations shown.

Once the device is installed, the (2) power connections for T2 and BATT NEG should connect as before. The control wires connect as shown in the connection table on the following page.

Although the GE inventory should be depleted, it is important to note the new device installation, once made, is also adaptable to replacement with one of the original devices should one be discovered. Just reverse the process as noted here and on the attached instruction.

- CONTROL SURFACES & DIMENSIONS
- (P) PROC.
 - (E) ENG.
 - (A) APPL.
 - (R) REG.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES/FRACTIONS TOLERANCES ON: 2 PL. DECIMALS ±.010 3 PL. DECIMALS ±.005 ANGLES ±1° FINISHES ±1/16"	SIGNATURES	DATE	GENERAL ELECTRIC WEBANE OPERATIONS, WEBANE, N.C. USA	
	DRAWN J. Akers CHECKED J. Harrison ISSUED J. Harrison	1/15/01 1/19/01		
THIRD ANGLE PROJECTION			SIZE A	FSCM NO -
			DWG NO 342A4219	SHEET 2 CONT. 3
			SCALE .66	

PR. 37, 44, 85, EVMK, EVNG, SAL
DWT 10

