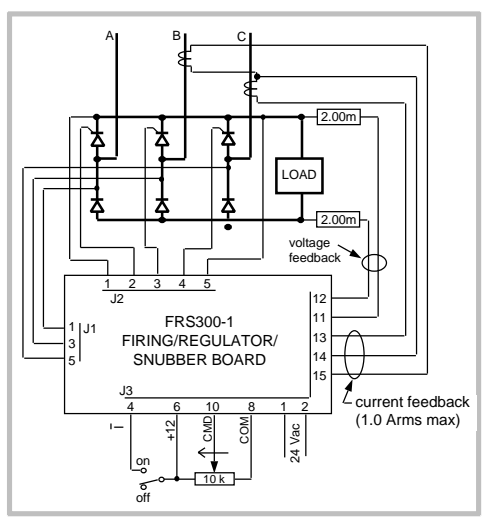


REVISIONS				
DATE	LTR	DESCRIPTION	ECO	APPD
11-25-98		Drafted	--	ppd
5-15-99	A	Add external current command capability for the 2nd production run	--	fjb

- NOTES:**
- For current signal input:
 - Jumper R39.
 - Select R40 to give $E_{cmd} = 5.0V_{dc}$ with maximum signal current.
 - Select R24 for desired soft-start time.
 - Factory selected R27.
 - Cut trace for 120° Burst Pulse Profile.
 - Cut trace for soft off.
 - J4 provided for test phase reference inputs.
 - Select R9 resistance for +24V control voltage.
 - Select R10 CT/rectifier burden resistance to give 2.0 Vdc current signal at rated current with 1.0 A maximum CT secondary current.
 - For open loop operation:
 - Omit U3, BR2, BR3, RN6, D3, D4, C14, C15, C23, R10, R11, R35, R38, R39, R40, R41, R43, R44, and R47.
 - Install JU1
 - Install R32 = 150k for 0/5 V cmd, = 249 k for .85 V to 5.85 V cmd.
 - Change R36 to 47.5k.
 - Select R39 to scale the voltage command:
 - R39 = 0 ohm for 0/5 V command
 - R39 = 9.09 kohm for 0/10 V command
 - For 50 Hz operation:
 - Change RN2 to 150k.
 - Remove R28.
 - Current command:
 - For on-board current cmd, install R44 and omit R42.
 - For off-board current cmd, install R42 and omit R44.
 - Install JU2 to connect J3-7 to COM.
 - For use with FCLB-1 Fault Current Limiter Board:
 - Omit BR2 and BR3.
 - Jumper pads 1-2 and 3-4 of BR3
 - Install JU3
 - Typical semiconductor connection diagram:



2nd Production Lot 8-31-99

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Control Number: 1115-01-5-2-01	ENERPRO	
dwn ppd 11-2-98		
chkd fjb 2-24-99	SEMI-CONVERTER FIRING/ REGULATOR/SNUBBER BOARD	
ECO --	PWB PART NO. FRS300-1	Dwg. no. E1115
VERSION: 8-31-99	SIZE: B	SHEET 1 OF 2

