



NOTES:

- 1-

SIGHI RANGE	R25	R18	R24
0-10V	4.99K	45.3K	4.99K
0-5V	10.0K	47.5K	0
4-20mA	249 Ohm	47.5K	0
- 2- Select R18 for desired delay angle span.
Select R19 and R20 for desired delay angle bias.
- 3- Select R29 for desired soft-start time.
Select R28 for desired soft-stop time.
- 4- Install JU1 for 2-30 deg. burst mode gating (low inductance load only).
- 5- Select R26 and R37 resistance to provide desired status relay or lamp voltage.
- 6- For gating paralleled SCRs, connect FCOAUX60 auxiliary firing board via cable to J4.
- 7- Select R11 to make TP2 voltage = 5.00 +/- .05 V at TP2 at 60 (or 50) Hz.
- 8- Increase C25 capacitance to reduce firing circuit bandwidth
- 9- Outputs to FCOAUX60 Auxiliary Firing Board.
- 10- For 48V dc-dc converter use 1N5346A 9.1V zeners for D11-D16.
For 24 V dc-dc converter use 1N5338A 5.1 V zeners for D11-D16.
- 11- Provide external resistance to limit zener current in D11-D16.
- 12- R25 selected for 30 Hz to 150 Hz frequency range.
- 13- Install EP1024-0 (no resistor) pulse module for use with external phase reference resistors.
- 14- Cut trace where indicated when ac supply is high frequency.

RN60 RESISTORS (KOhm)			
R11	SEL	R21	47.5
R12	150	R22	32.4
R13	1.69	R23	1.50
R14	100	R24	10.0
R15	OMIT	R25	182
R16	20.0	R26	0.221
R17	47.5	R27	100
R18	36.5	R28	10.0
R19	93.1	R29	100
R20	1000	R30	15.0
		R31	10.0
		R32	1.50
		R33	1.50
		R34	1.50
		R35	0
		R36	10.0
		R37	0.221
		R38	0.221
		R39	100
		R40	100

ENERPRO GOLETA, CA

Title: Variable Frequency 3-Phase Firing Circuit

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