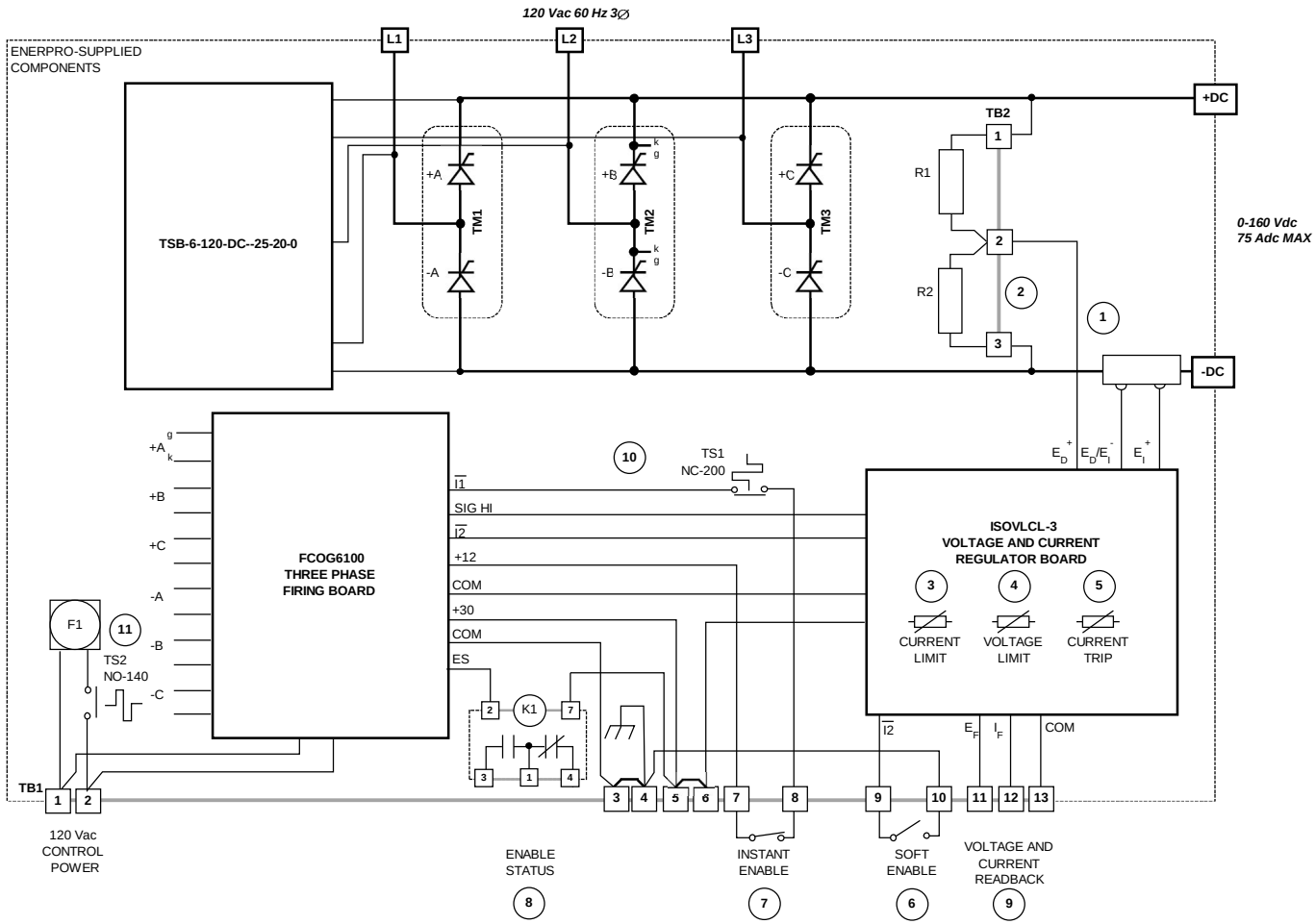

NOTES

1. Shunt provides current feedback. Nominal rectifier current is 50.5 Adc.
2. R1 and R2 provide 0-4 Vdc full scale voltage feedback for 0-160 Vdc rectifier output.
3. JU4 installed for onboard current command. Adjust CURRENT LIMIT trimpot for the desired maximum rectifier current.
4. JU3 installed for onboard voltage command. Adjust VOLTAGE LIMIT trimpot for desired maximum rectifier voltage.
5. Adjust CURRENT TRIP trimpot for the desired load current trip threshold.
6. Open dry contact beween TB1-8 and 9 to soft enable firing. SCR gating will enable with the delay angle ramped to the maximum value and ramp to the delay angle as determined by the regulator board's set point. Close the contact to soft inhibit; the rectifier will ramp from the setpoint to the maximum delay angle and then cease SCR gating.
7. Close dry contact between TB1-6 and 7 to instantly enable SCR firing. Open dry contact to instantly inhibit.
8. Relay K1 energizes when SCR firing is enabled, i.e, an enable command is asserted when an overtemp or phase loss condition does not inhibit SCR firing. K1 relay terminal connections are made at the base of the octal relay.
9. Analog voltage and current readback signals (0-2 Vdc full scale) are available at TB1-11 (voltage) and TB1-12 and (current).
10. TS1 instantly inhibits firing when heat sink temperature exceeds 200 F (93 C).
11. Heat sink cooling fan enables when heat sink temperature exceeds 140 F (60 C).

This drawing is for reference only.
Please use the "Configure Your Assembly" link, then "Download Order Form" to specify your requirements.

ENERPRO

TYPICAL PCM THREE PHASE REGULATED RECTIFIER, 50A

E2368

SHEET 1 OF 1