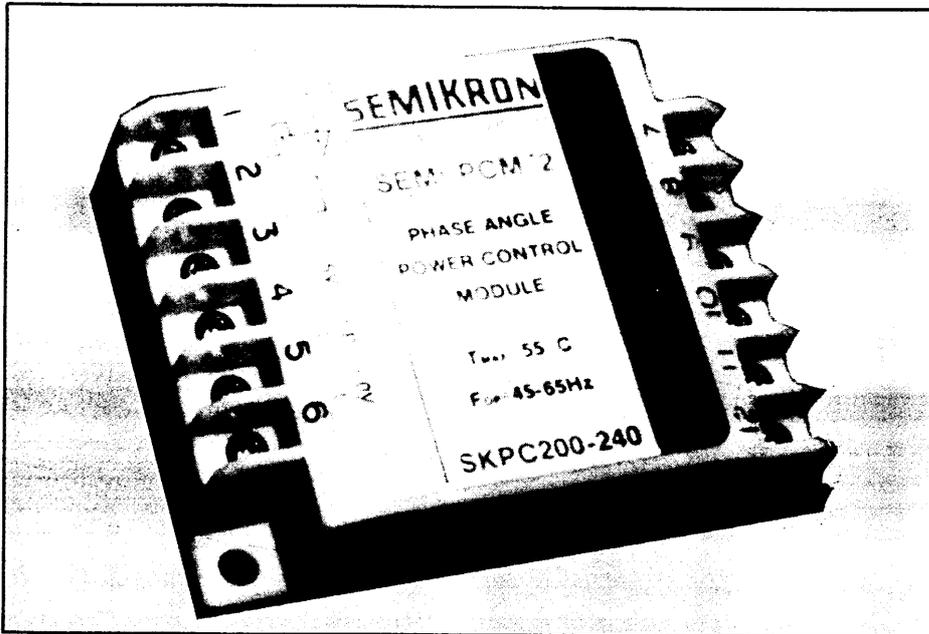


SEMIKRON

innovation + service

210-730



SKPC 200 is one of the new generation of Semikron Power Control Modules (SEMI-PCM). The new high specification design provides an optimum level of isolated gate drive for a wide range of SCR's connected to form powerful AC to AC regulators or AC to DC Power Supplies.

The new design can be used to control most of the standard power circuits such as WIC, B2HZ and B2HK. SKPC 200 can be powered from a separate aux.power supply thus allowing the SCR power circuit to be operated on NON-STANDARD voltages.

The new design incorporates a number of very important features such as GATE STEERED firing required for highly inductive loads, un-committed OP-AMP to allow FEEDBACK control, and gate output drive SHORT CIRCUIT protected. Additionally both 50/60HZ can be accommodated and internal 5V ref. has a HIGH OUTPUT current capability ideal to power EXTERNAL control circuits.

The excellent package, which integrates an internal supply transformer, is fully compatible for mounting with SEMIPACK 1 to SEMIPACK 4 SCR modules. The input and output SCREW terminal connections are both electrically and mechanically isolated.

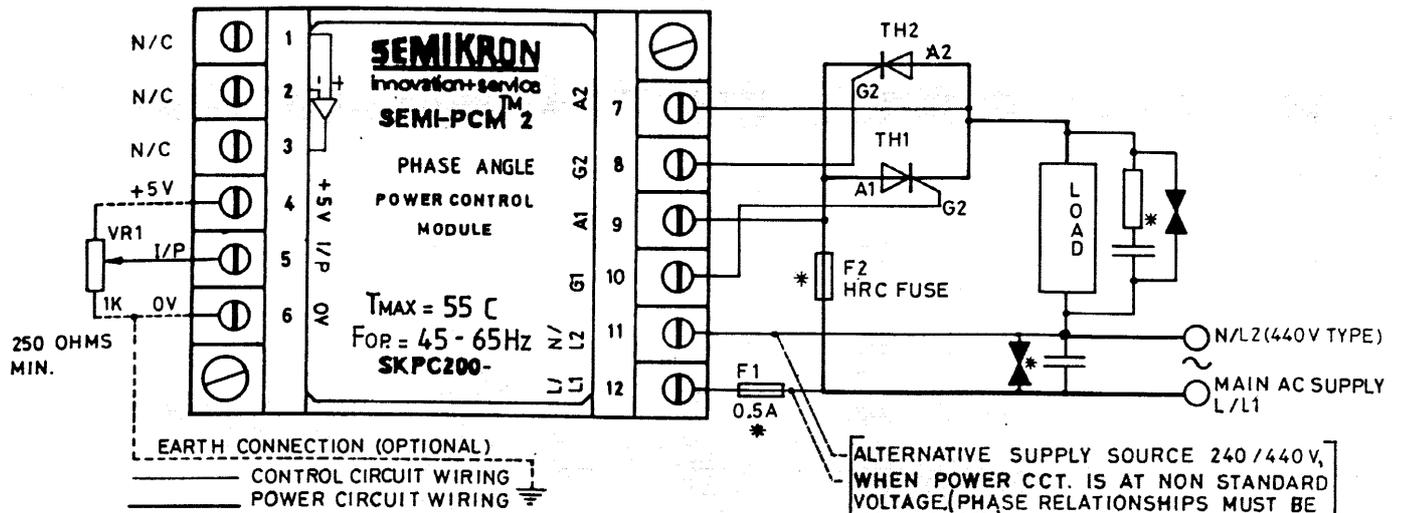
MAIN FEATURES

- * Fully Isolated protected input
- * Aux.5V Supply
- * Internal Supply TRF
- * Conforms to UL, CSA and VDE requirements
- * Short Circuit protected
- * High specification

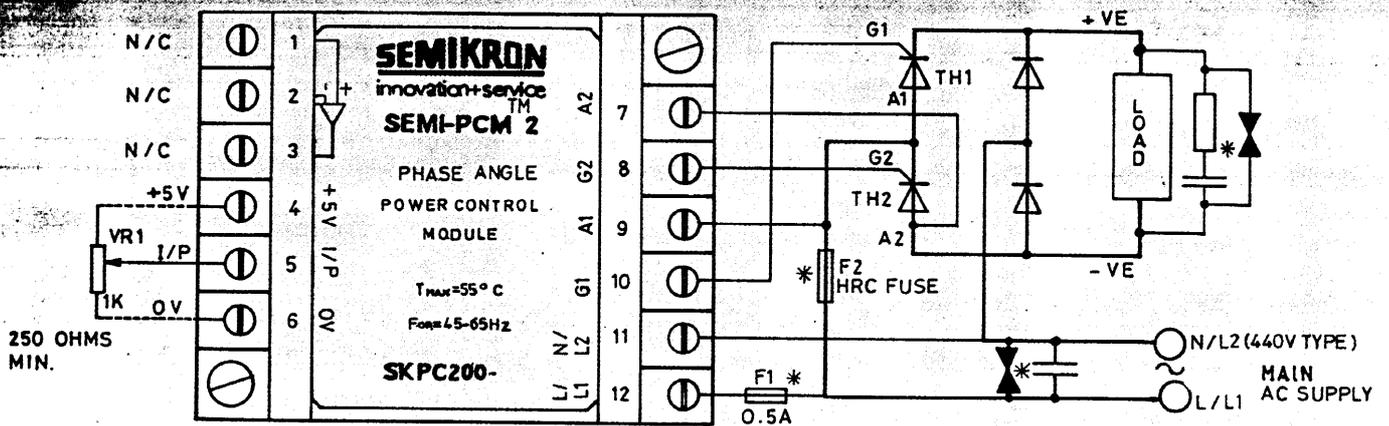
TYPICAL APPLICATIONS

- * Heating Loads
- * Power Supplies
- * High inrush current loads
- * DC injection braking
- * Motor Control

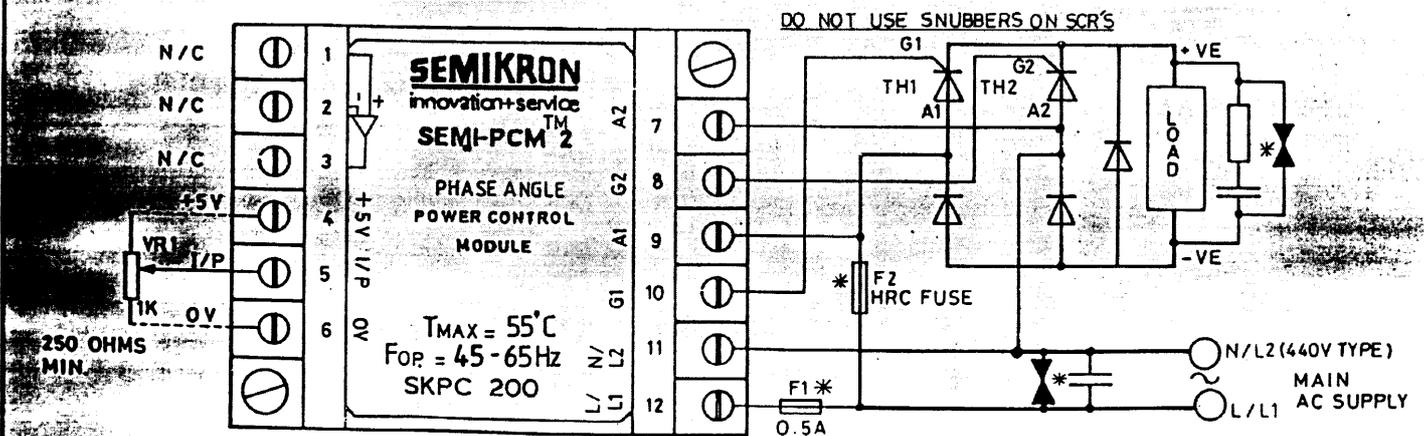
* RECOMMENDED PROTECTIVE COMPONENTS APPLICABLE TO ALL CCTS, AS FOLLOWS.



BASIC A.C. REGULATOR (W1C) WIRING



HALF CONTROLLED D.C. BRIDGE (B2HZ) WIRING



ALTERNATIVE HALF CONTROLLED D.C. BRIDGE (B2HKF).

PRODUCT TYPES:

SKPC200 - 115
 SKPC200 - 240
 SKPC200 - 440

FOR VOLTAGE SUPPLY OF 115Vrms
 FOR VOLTAGE SUPPLY OF 240Vrms
 FOR VOLTAGE SUPPLY OF 440Vrms

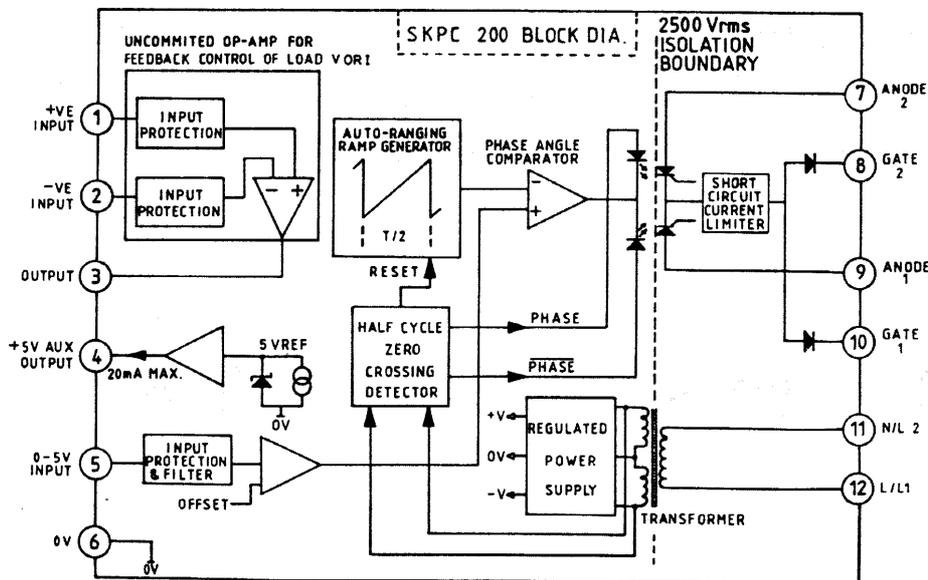
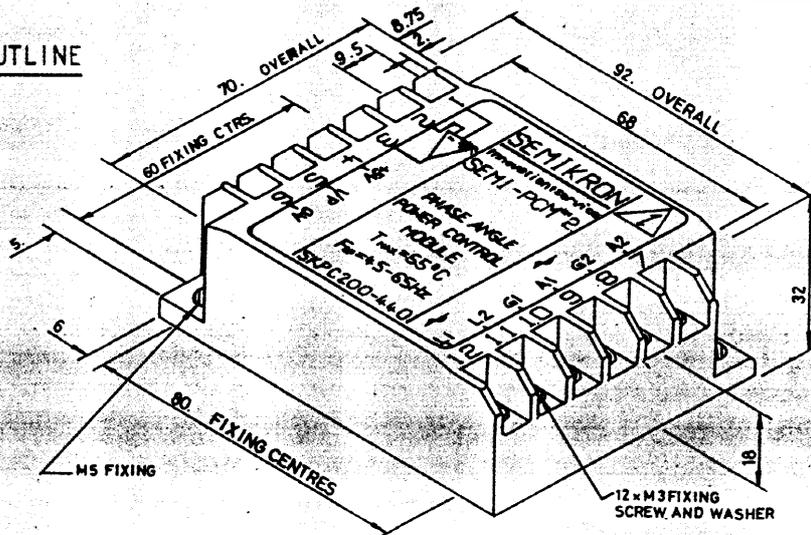
ELECTRICAL SPECIFICATIONS:

| | |
|----------------------------------|--|
| Operating Supply Voltage | Nom. + 10%, -15% |
| Operating Frequency | 45 - 65Hz |
| Input Control/Impedance | 0 - 5V/100K Ohm min. |
| Controllable Retard Angle | 180 Degrees typical |
| Peak Gate Output Current | 1.9A @ Vs = Max. @90° Angle |
| Gate Short Circuit Response | 250 - 500mSec. |
| Critical Dv/Dt | 500V/μS min. for 240V type 100V/μS min. for 440V type |
| Reference Output Aux. Voltage | 5V @ 20mA min. |
| Uncommitted OP-AMP Input Voltage | +/- 10V Terminal 1 & 2 |
| Uncommitted OP-AMP Output Swing | +/- 10V Terminal 3 |
| Input/Output Isolation | 2.5KV rms |

MECHANICAL SPECIFICATIONS:

| | |
|--------------------------------|--------------------------|
| Storage Temperature | -40°C to +125°C |
| Operating Temperature/Humidity | 0 to + 55°C/80%RH |
| Flame Retardance | UL94 - VO |
| Weight | 320gms |
| Mounting | 80mm Centres, 2Nm Torque |
| Hardware Supplied | 2 x M5 Mounting Screws |

MECHANICAL OUTLINE



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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