

Monza 25/6/2004

IPW SAFETY SIGNAL OPERATION, ALARM N. 134:

The rectified line voltage is measured on the INVERTER AND SNUBBER Printed circuit board using R1, R2, R4, R5, R7 resistances and ISO1 photo coupler.

If Line voltage exceeds 480 V DC, the Vrail signal is switched to GND by the photo coupler.

The J1 PIN 9 is switched to GND. By J1 and J3 connection, the signal is carried and pass through IGBT DRIVER PCB and goes to J2 connector PIN 9. The signal is then carried from IGBT DRIVER PCB J2 CONNECTOR to the MASTER CONTROL UNIT PCB J10 connector and, passing through R131, switches to GND the ISO24 photo coupler PIN 5 Vraix signal, that normally is kept to 5V by the R99 pull-up. The JP24 is used to by-pass this safety measure.

Control all the passages to R99 to verify the right operation of the signal.