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PROJECT MEMO

MEMO CONCERNS

Brake chopper control board, v 2.1 - Documentation

DISTRIBUTION

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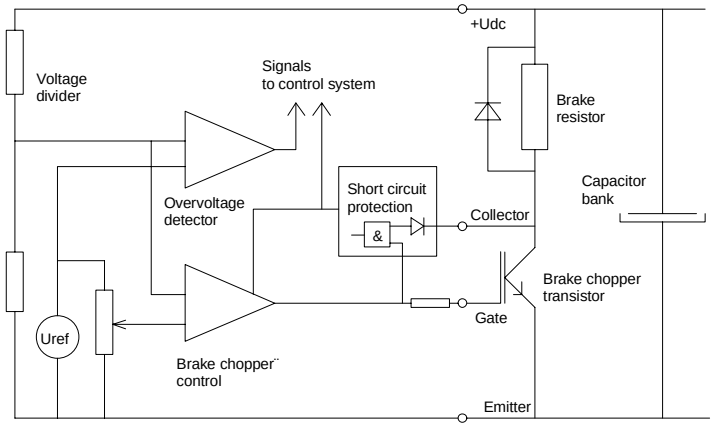
This memo contains: Description, schematic drawing, board layout drawings Component list, connection list, modifications and corrections.



This board monitors the DC-link voltage, and controls an IGBT brake chopper. Overvoltage trip setpoint is determined by a voltage divider. Default trip level is 640V. Brake chopper operating voltage is adjustable between 0%-100% of overvoltage trip level.

Short circuit protection of the chopper transistor is included.

This board operates independently of the DC link voltage. Power supply: 15V DC, at ground potential. Insulation is provided through an onboard DC-DC converter.

Feedback status signals are available for central control logic, residing at ground potential, through a set of onboard optocouplers.

TABLE OF CONTENTS