

Allen-Bradley SK-R1-MCB1-PF753 Manual

Brand	Allen-Bradley
Product Series	AB Others
Product Type	Control Electronics / Drive Internal Board

Description

The SK-R1-MCB1-PF753 is the central control electronics board designed for the Allen Bradley PowerFlex 753 series. It acts as the main control logic component for drives across frames 1 to 7, covering voltage classes C, D, E, and F, ensuring extensive compatibility.

Technical specifications for SK-R1-MCB1-PF753

Manufacturer Allen Bradley

Product Type Control Electronics / Drive Internal Board

Product Line PowerFlex 753

Part Number SK-R1-MCB1-PF753

UPC 884951178021

Weight 5.00 lbs (2.27 kg)

Compatible Equipment PowerFlex 753 drives (Frames 1-7, voltage classes C/D/E/F)

Function Main control logic board for the drive

Material Multilayer PCB with electronic components

Finish / Coating Conformal coating / factory finish

Altitude (meter) Up to 2000 m

Altitude (feet) Up to 6562 ft

Operating Temperature -10 °C to 50 °C

Storage Temperature -40 °C to 85 °C

Humidity Tolerance 5 to 95 % RH, non-condensing

Environment Installed inside drive control pod or safety enclosure

Description

The SK-R1-MCB1-PF753 part is a control electronics board manufactured by Allen Bradley as part of the PowerFlex 753 series. Functioning as the primary control logic component for PowerFlex 753 drives, this board is compatible with various frames, specifically from frame 1 to frame 7, and is suitable for voltage classes C, D, E, and F. This versatility makes it an essential component for a range of applications.

The main construction of the control board features a multilayer printed circuit board (PCB), which is outfitted with necessary electronic components for effective performance. It comes with a factory-applied conformal coating that provides added protection against environmental factors. Operating conditions for the board extend from -10 °C to 50 °C, highlighting its capability in moderately harsh environments. For storage, the temperature range is wider, accommodating from -40 °C to 85 °C.

Humidity tolerance is robust, with the SK-R1-MCB1-PF753 designed to function effectively at levels from 5% to 95% relative humidity in non-condensing settings. This flexibility contributes to the board's adaptability across various operational conditions. The maximum operating altitude for this component is an impressive 2000 meters or 6562 feet, ensuring application in high-altitude environments is feasible. The installation of this internal board occurs within a drive control pod or a safety enclosure, setting a foundation for reliable operation in various setups.

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