Moderate | Assistant Engineer (Electrical), Clas | 2025 | Building Department

In non-circulating current mode dual converters, the circulating current is avoided by

A Connecting a series reactor

B Maintaining 1 + 2 = 180

C **Operating only one converter** Correct

D Adding an extra SCR

Correct Answer: C

Full Detailed Explanation

Concept & ReasoningDual converters provide reversible DC voltage/current using two controlled rectifier bridges. In circulating-current mode both bridges may operate simultaneously and a reactor limits the current caused by instantaneous voltage differences. In non-circulating mode, simultaneous conduction is deliberately prevented; the bridges are alternately enabled.How to Solve It in the ExamReactor circulating-current mode; one bridge at a time non-circulating mode.Important Exam PointLook for interlocking/dead time in practical implementations.Related Revision PathThis question sits in the revision path Power Electronics Converters Dual Converters .

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