

Easy

Assistant Engineer (Electrical), Class 2025

Building Department

The single phase mid-point type cycloconverter uses _____ number of SCRs.

A

4

Correct

B

8

C

6

D

2

Correct Answer: A

Full Detailed Explanation

Concept & Reasoning Cycloconverters directly convert fixed-frequency AC to lower-frequency AC. For a midpoint topology, the positive converter synthesizes positive load voltage and the negative converter synthesizes negative load voltage. Each converter is a two-pulse controlled midpoint rectifier with two thyristors. How to Solve It in the Exam Midpoint single-phase cycloconverter: $2 + 2 = 4$ SCRs. Important Exam Point Do not use bridge-converter SCR count (4 per bridge) for a midpoint topology. Related Revision Path This question sits in the revision path Power Electronics Cycloconverters Single-Phase Cycloconverters .

Open live question on website:

<https://sarkariresultout.com/pyq/question/gpsc-ae-electrical-q172-mid-point-cycloconverter-scr-count/>