ABB IGCT POWER ELECTRONICS

Product Data Sheet

5SHY3545L0020 3BHE014105R0001 5SXE08-0166

High-voltage power switching assembly

SEMICONDUCTOR TECHNOLOGY	BLOCKING VOLTAGE CLASS
IGCT	**4.5 kV**

ABB 5SHY3545L0020 3BHE014105R0001 5SXE08-0166 is an IGCT power-semiconductor assembly for high-power converter equipment. The integrated gate-commutated thyristor arrangement combines power switching with its associated gate-drive hardware in the converter assembly.

01 TECHNICAL DATA

Semiconductor technology	IGCT
Blocking voltage class	4.5 kV

02 ADDITIONAL PRODUCT DATA

The assembly has a 4.5 kV blocking-voltage class and incorporates the IGCT switching device with its associated gate-drive hardware. The combined 5SHY3545L0020, 3BHE014105R0001 and 5SXE08-0166 references identify the power-semiconductor assembly used within the converter power stage.

03 PRODUCT FUNCTION

Identify the converter equipment and all three semiconductor/assembly references before selecting the switching assembly. A shared IGCT technology or voltage class does not establish mechanical or electrical interchangeability with another power device.

04 SYSTEM COMPATIBILITY

Compare the fitted gate-drive assembly, power connections and cooling interface against the installed hardware. The available exact-reference data support a 4.5 kV voltage class but do not resolve conflicting current and switching-frequency claims, so those limits require converter-specific documentation.

05 DOCUMENT BASIS

Technical reference compiled for the exact recorded assembly. Manufacturer documentation is not included.

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**