

ABB DRIVES

Product Data Sheet

3BHE023784R0001 5SHY3545L0014

industrial IGCT power module

FUNCTION industrial IGCT power module	FAMILY ABB Drives	ORIGIN Switzerland	WEIGHT 2.66 kg
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ABB Drives 3BHE023784R0001 5SHY3545L0014 is a industrial IGCT power module for the ABB Drives. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Junction Temperature Range	-40°C to +125°C
Storage Temperature	-40°C to +140°C
Blocking Voltage	4500V
Gate Trigger Voltage (VGT)	1.5-2.5V
Average On-State Current	3500A
Turn-On Time (ton)	<5µs
Turn-Off Time (toff)	<10µs
Switching Frequency	Up to 500Hz
Exact Article Code	3BHE023784R0001 5SHY3545L0014
Device Designation	5SHY3545L0014

ADDITIONAL PRODUCT DATA

Product Family	ABB Drives
Semiconductor Type	IGCT
Switching Position	Drive power converter stage
Gate Interface	Matched ABB gate unit
Cooling Interface	Converter heat-sink mounting

OFFICIAL APPLICATIONS

- Stabilize web transport with Industrial Igct process control: At the control layer of the unwinders, dancers and pull rolls, 3BHE023784R0001 5SHY3545L0014 provides its specified system function as a industrial IGCT power module. During format change, the system uses this function to synchronize the driven sections with product position, helping it protect web tension and print registration.
- Supervise aeration-blower output with Industrial Igct: In the automation chain for the blower motors, air headers and oxygen-control loops, 3BHE023784R0001 5SHY3545L0014 performs its assigned control role as a industrial IGCT power module. During oxygen-setpoint change, the system uses this function to coordinate blower speed with the required air delivery, helping it match aeration energy to treatment demand.
- Balance compressor auxiliary drives with Industrial Igct: Inside the lube-oil pumps, seal systems and ventilation motors, 3BHE023784R0001 5SHY3545L0014 operates in its approved product-family role as a industrial IGCT power module. During compressor start, the system uses this function to sequence auxiliary motor operation around train readiness, helping it establish the support systems before process loading.

SYSTEM COMPATIBILITY

Match 3BHE023784R0001 5SHY3545L0014 to the installed ABB Drives, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[ABB ABB Drives documentation](#)

<https://new.abb.com/control-systems>

AMIKON PRODUCT SUPPORT

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