

ABB DRIVES

Product Data Sheet

3BHL000986P3012 5SDD2545L0001

industrial IGCT power module

FUNCTION industrial IGCT power module	FAMILY ABB Drives	ORIGIN Switzerland	WEIGHT 2.56 kg
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ABB Drives 3BHL000986P3012 5SDD2545L0001 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

Operating Junction Temperature	-40°C to +125°C
Storage Temperature	-40°C to +140°C
Nominal On-State Current (ITAV)	2500A
Peak Surge Current (ITSM)	25kA (1ms)
Critical di/dt	800A/μs
Maximum Blocking Voltage (VDRM)	4500V
Gate Trigger Voltage (VGT)	1.5-2.5V
Exact Article Code	3BHL000986P3012 5SDD2545L0001
Device Designation	5SDD2545L0001
Product Family	ABB Drives

ADDITIONAL PRODUCT DATA

Semiconductor Type	IGCT
Switching Position	Drive power converter stage
Gate Interface	Matched ABB gate unit
Cooling Interface	Converter heat-sink mounting
Electrical Matching	Exact voltage and current class

OFFICIAL APPLICATIONS

- Monitor robotic joining with Industrial Igct process control: Across the robots, fixtures and clamp groups, 3BHL000986P3012 5SDD2545L0001 performs its assigned control role as a industrial IGCT power module. During station restart, the system uses this function to confirm tooling readiness before the cycle starts, helping it prevent an incomplete joining cycle.
- Govern strip transport with Industrial Igct process control: In the automation chain for the bridle rolls and coilers, 3BHL000986P3012 5SDD2545L0001 handles its designated signal or control duty as a industrial IGCT power module. During threading, the system uses this function to balance speed and torque between connected sections, helping it maintain strip tension through the line.
- Stabilize robotic handling with Industrial Igct: Inside the robots, grippers and transfer fixtures, 3BHL000986P3012 5SDD2545L0001 provides its specified system function as a industrial IGCT power module. During fault recovery, the system uses this function to restore the cell from a defined intermediate state, helping it resume material flow without losing part identity.

SYSTEM COMPATIBILITY

Match 3BHL000986P3012 5SDD2545L0001 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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