

ABB DRIVES

# Product Data Sheet

**3BHB021400R0002 5SHY4045L0004 3BHB026114R0001 5SHY5055L0002**

integrated gate commutated thyristor

| FUNCTION                             | FAMILY     | ORIGIN      | WEIGHT  |
|--------------------------------------|------------|-------------|---------|
| integrated gate commutated thyristor | ABB Drives | Switzerland | 2.64 kg |

ABB Drives 3BHB021400R0002 5SHY4045L0004 3BHB026114R0001 5SHY5055L0002 is a integrated gate commutated thyristor for the ABB Drives. The values below are limited to the exact documented article.

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## VERIFIED TECHNICAL DATA

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| Exact Article Code  | 3BHB021400R0002 5SHY4045L0004 3BHB026114R0001 5SHY5055L0002 |
| Device Designation  | 5SHY4045L0004 3BHB026114R0001 5SHY5055L0002                 |
| Product Family      | ABB Drives                                                  |
| Semiconductor Type  | thyristor / diode                                           |
| 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                             |
| Installation Format | Power semiconductor module                                  |
| Protective Check    | Insulation and gate-circuit test                            |

|                     |                                       |
|---------------------|---------------------------------------|
| System Interface    | ABB converter power stage             |
| Replacement Basis   | Exact article and device code         |
| Commissioning Check | Gate pulses and phase-current balance |
| Service Position    | Documented converter phase position   |
| Configuration Basis | Installed drive hardware list         |

- Operate the documented integrated gate commutated thyristor: Use 3BHB021400R0002 5SHY4045L0004 3BHB026114R0001 5SHY5055L0002 only in the ABB Drives equipment position identified by the installed hardware list. Match the complete ABB article code, board designation and electrical interface before work begins.
- Restore every recorded connection: Photograph connector keying, terminal references, cable routing, protective earth and adjacent assemblies for 3BHB021400R0002 5SHY4045L0004 3BHB026114R0001 5SHY5055L0002. Reconnect the documented interface without changing the approved cabinet arrangement.
- Validate diagnostics before release: After installing 3BHB021400R0002 5SHY4045L0004 3BHB026114R0001 5SHY5055L0002, check power-up indications, controller or converter diagnostics and the affected control function. Record measured results and maintenance acceptance before returning the equipment to service.

Match 3BHB021400R0002 5SHY4045L0004 3BHB026114R0001 5SHY5055L0002 to the installed ABB Drives, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[ABB ABB Drives documentation](#)

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

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