QDTB® TRANSFORMER

BKSC

Reactors

PRODUCT DATASHEET

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BKSC — Series Overview

The BKSC series three-phase dry-type iron-core shunt reactors are designed for MV/HV power systems to compensate capacitive reactive power of long transmission lines. Features dry-type iron-core construction for fire-safe indoor installation with reliable performance.

Key Features

- Dry-type iron-core construction for fire safety
- Compensates capacitive reactive power in long transmission lines
- Suitable for 6kV to 35kV power systems
- Capacity range from 100kVAR to 5000kVAR

Typical Applications

- High-voltage transmission line compensation
- Urban cable network reactive power management
- Power generation plant auxiliary systems
- Industrial HV/MV power distribution

Model Number Breakdown

B — Reactor (Biyaoqi / Inductor)

K — Dry-type (Kongqi cooled / Air-cooled)

S — Three-phase (Sanxiang)

C — Iron-core design (Core type)

Model Specifications

29 model(s) in the BKSC series. Weight and dimensions are typical reference values, subject to confirmation.

Model	Rated Capacity	Voltage	Connection	Reactance (%)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
BKSC-6-100	100	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	430 kg	550×370×520 mm
BKSC-10-100	100	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	430 kg	550×370×520 mm
BKSC-6-200	200	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	720 kg	630×420×580 mm
BKSC-10-200	200	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	720 kg	630×420×580 mm
BKSC-6-300	300	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	950 kg	680×450×620 mm
BKSC-10-300	300	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	950 kg	680×450×620 mm
BKSC-6-500	500	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	1300 kg	750×500×680 mm
BKSC-10-500	500	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	1300 kg	750×500×680 mm
BKSC-35-500	500	35 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	1300 kg	750×500×680 mm
BKSC-6-800	800	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	1840 kg	835×560×760 mm
BKSC-10-800	800	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	1840 kg	835×560×760 mm
BKSC-6-1000	1000	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	2200 kg	900×600×800 mm
BKSC-10-1000	1000	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	2200 kg	900×600×800 mm
BKSC-35-1000	1000	35 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	2200 kg	900×600×800 mm
BKSC-6-1500	1500	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	3000 kg	1000×650×900 mm
BKSC-10-1500	1500	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	3000 kg	1000×650×900 mm
BKSC-6-2000	2000	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	3800 kg	1100×700×950 mm
BKSC-10-2000	2000	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	3800 kg	1100×700×950 mm

Model	Rated Capacity	Voltage	Connection	Reactance (%)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †
BKSC-35-2000	2000	35 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	3800 kg	1100×700×950 mm
BKSC-6-3000	3000	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	5200 kg	1200×800×1050 mm
BKSC-10-3000	3000	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	5200 kg	1200×800×1050 mm
BKSC-35-3000	3000	35 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	5200 kg	1200×800×1050 mm
BKSC-6-5000	5000	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	8000 kg	1350×900×1200 mm
BKSC-10-5000	5000	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	8000 kg	1350×900×1200 mm
BKSC-35-5000	5000	35 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	8000 kg	1350×900×1200 mm
BKSC-35-8000	8000	35 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	11600 kg	1500×960×1380 mm
BKSC-6-10000	10000	6 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	14000 kg	1600×1000×1500 mm
BKSC-10-10000	10000	10 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	14000 kg	1600×1000×1500 mm
BKSC-35-10000	10000	35 kV	Parallel	6	A (105°C)	GB10229, IEC 60076-6	14000 kg	1600×1000×1500 mm

† Typical values, subject to confirmation. Final dimensions and weights are per factory GA drawings and routine test reports.

Standards & Certification

ISO 9001 Certified — Quality Management System

CE marking — available on selected models

Design and testing per IEC 60076, IEC 60076-11 (dry-type), IEC 61330 (substations), GB 1094 and related international standards.

Note: Certification details and test reports are provided upon request for the specific model and destination market.

Inquiry & Contact

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QDTB® guarantees a response within 24 hours on business days. Send your model, capacity, voltage and quantity for a detailed quotation.