

| High Voltage Switchboard General Specification and Ratings | | |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Item | Specification and Ratings | |
| | JSB-2 | JSB-5 |
| Applicable standard | IEC62271-200: switchboard IEC62271-100: circuit breaker IEC62271-102: earthing switch | IEC62271-200: switchboard IEC62271-100: circuit breaker IEC62271-102: earthing switch |
| Applicable classification societies | NK, LRS, ABS, DNVGL, BV | NK, LRS, ABS, DNVGL, BV, CCS |
| Switchgear structure | Metal-clad structure | Metal-clad structure |
| Rated insulation voltage | AC 7.2kV | AC 12kV |
| Rated frequency | 50/60Hz | 50/60Hz |
| Rated frequency withstand voltage | 20kV / min | 28kV / min |
| Rated lightning impulse withstand voltage | 62.5kV | 75kV |
| Rated short-time withstand current | 20kA 1sec | 31.5kA 1sec |
| Rated peak withstand current | 52kA | 80kA |
| Internal arc current | 20kA 1sec | 31.5kA 1sec |
| Main bus bar current | 1250A | 2000A |
| Load bus bar current | 630A, 1250A | 630A, 1250A, 1600A, 2000A |
| External IP rating | IP43 | IP43 |
| Internal IP rating | IP4X | IP2X |
| Arc gas ducts | Optional | Standard |
| Insulated bus bars | Optional | Standard |

STCW Certified Training

JRCS is proud to be the first company in Japan to offer a high voltage training course based on STCW requirements with a curriculum verified and approved by ClassNK. Maximize onboard safety and operability by training your crew at our fully-equipped training facility in Shimonoseki, Japan.



JSB-5/JSB-2

High Voltage Switchboard

Fully
IEC-compliant

Supports
7.2 kV/12 kV
31.5 kA 1 sec.
2,000 A



JSB-5/JSB-2

High Voltage Switchboard

Features

Versatility to suit your unique needs

JSB-5 is flexible enough for vessels of all shapes and sizes, including large-scale electrical propulsion vessels, offshore platforms, container vessels and marine research vessels.

Safe in the most demanding conditions

Fully-compliant with IEC62271-200 standards, JSB-5 has passed the strict approval tests of leading classification societies worldwide, including NK, ABS, LRS, DNV-GL, BV, and CCS.

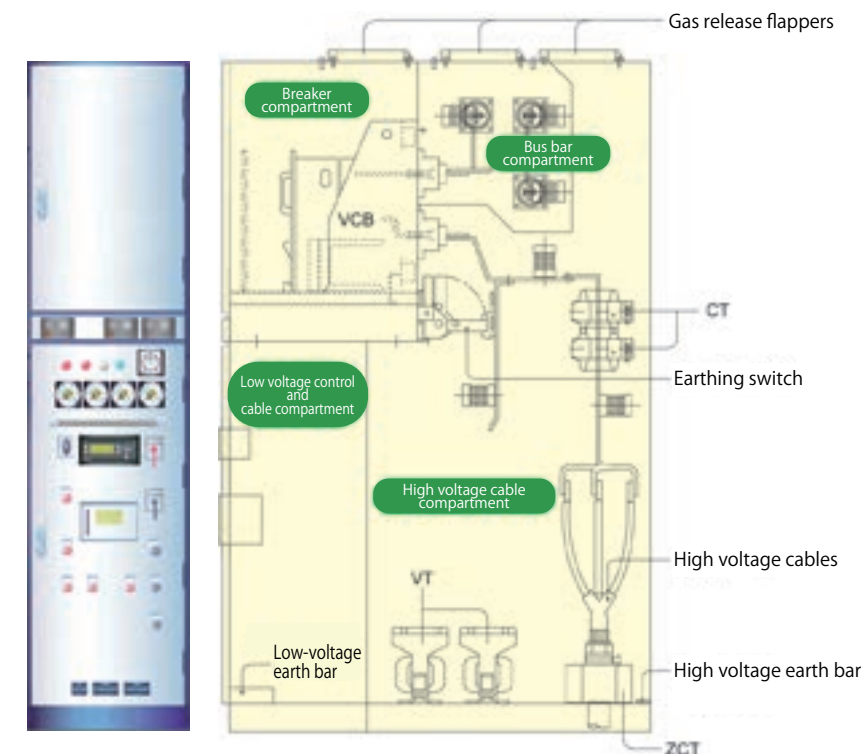


JSB-5 internal arc test (31.5 kA 1 sec)

Design and quality you can trust

Our successful delivery record speaks for itself: JSB-5's predecessor JSB-2 has been installed in over 100 vessels since 2002.

Construction



Metal-clad structure fully complies with IEC62271-200 standards

High voltage compartments:

- Breaker compartment
- Bus bar compartment
- High voltage cable compartment

Low voltage compartment:

- Low voltage control and cable compartment

User-friendly design has the VCB compartment on top, making the more frequently-used low-voltage equipment easier to operate, access and maintain

Main Components



Vacuum Circuit Breaker (VCB)

Manufactured to IEC62271-100 standards, JSB-5's VCBs combine AC 12 kV 31.5 kA 1 sec breaking capacity with a key interlock for maximum performance and safety.



Multi-function protection relay

These high-performance relays are not only easy to use but also easy to maintain. In addition to a full suite of protection functions, robust communication functionality allows for remote monitoring of each type of data.



Key interlock system

Satisfying the strict safety standards called for by IEC62271-200, the standard key interlock system provides a mechanical interlock between the VCB and earthing switch.



Fireproof filters

Every JSB-5 switchboard comes equipped with fireproof filters paired with arc gas ducts, ensuring that harmful high-temperature arc gas is safely released outside of the panel during an internal arc accident.