

GENERAL

Q: Where is JST Power Equipment Inc. located?

A: 30 Skyline Dr. Lake Mary, FL 32746

Q: Who is the primary owner of JST Power Equipment?

A: Ms. Eugenia Jing

Q: Contact Information

A: Phone: +1 (844) 631-9046 (toll free)

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www.jstpower.com

Q: What is the JST Power Equipment Inc. DUNS number?

A: DUNS No. 02-513-8988

Q: What is JST Power Equipment Inc. Tax ID number?

A: FED EIN No. 13-3988624

Q: Who is JST Power Equipment's Lawyer/Legal Representative?

A: The Corporate Lawyer for JST Power Equipment Inc. is Joseph Walsh of Troutman Pepper. The contract review lawyer is James Bonicos of Bonicos & Wang.

Q: What are the target markets and why?

A: We are targeting our products and solutions at a number of different industrial, commercial and utility sectors. Some of these include:

1. Data Centers – with both MV switchgear and dry type transformers, we are positioned to offer unique solutions to this market segment. Also, with the single-phase capability of the J3Mag breaker, we are able to improve overall reliability of a datacenter.
2. Utilities – the J3Mag single phase capability will help utilities improve their SAIFI and SAIDI scores by allowing single phase tripping in many applications thus dropping only 1/3 the load than a traditional breaker would drop.
3. Commercial construction – with solutions in both AIS and GIS, JST can offer solutions to the customer in terms of costs savings, lower O&M costs, smaller footprint and enhanced safety.
4. Oil and Gas – the J3Mag offers lower maintenance and higher reliability than any solution on the market. With only 3 moving parts (one per phase) recommended maintenance is reduced to the bare minimum.
5. Renewables – with Dry-Type transformers and MV GIS and AIS Switchgear we can offer a competitive package to the OEM manufactures.

Q: What is JST Power Equipment Inc.'s Vision?

A: To become one of the world's leading engineering and power equipment manufacturing companies including Medium Voltage Switchgear and Transformers in the ANSI Market

Q: What is JST Power Equipment Inc.'s Mission?

A: As a strategic partner our goal is to always maintain these 3 core behaviors: committed, concise and communication. JST Power Equipment, Inc. will continuously strive to expand our brand within the medium voltage market. We want to make tough decisions easier for our customers with our ease-of-doing-business approach.

Q: How is the Organization structure set up with roles and responsibilities, and how is this communicated to stake holders?

A: There is an organization chart in place. Unlike many of the players in our Market, our structure setup is simplified. Sales → Project Manager → Management. The management level is the top level of escalation within our framework. As our team evolves, updated org charts will be released to our sales organization.

Q: How are intellectual property rights protected?

A: Intellectual property rights are protected via patents and trademarks where applicable. All employees sign contracts ensuring the security of JST Power Equipment Inc.'s proprietary information. For customer and vendor information we use a two-way NDA.

Q: Are CTQs and CTPs defined for all comprehensive parts? (Critical to Quality - Critical to Process). How are they determined?

A: JST's R&D department identifies all CTQs and CTPs these characteristics and ensures they are maintained.

Q: How is JST Power Equipment Inc. positioned relative to the competition?

A: JST Power Equipment, Inc. Lake Mary has a very knowledgeable and dedicated team to support the market. We will position ourselves on a project-by-project basis in order to satisfy our customer needs. We are a high-quality supplier with a low overhead business model. As a smaller company we can provide our customers a more individualized customer experience and respond quickly to our customer's specific needs

Q: How do you approach the business-critical projects and solve problems?

A: JST Power Equipment Inc uses an inclusive approach with our customers, vendors, and internal teammates to look for creative solutions that solve customer applications and business challenges. By involving the entire value chain, we can optimize solutions while minimizing costs and risks.

Q: How do you deliver the customer requirements in a way that creates value?

A: By understanding customer requirements, we can use our product knowledge, manufacturing expertise, and global supply capability to deliver the most reliable and cost-effective solution in the market.

Q: What is the standard warranty period for JST Power Equipment’s MV Switchgear?

A: Standard warranty offered is 12 months from date of installation, and not to exceed 18 months from date of shipment. Extended warranties may be purchased prior to equipment shipment.

Q: Is there a dedicated marketing department available for review of Requirements and Technical review before commencement of the work?

A: Yes. All new requests for quotes/information will be reviewed by the Marketing Department prior to commencement of work.

Q: Incoming goods/ Raw material control: How are raw materials stored? How are incoming parts controlled? Do you have any process for maintaining raw material lead times?

A: JST has long-term relationships with its suppliers to ensure the uninterrupted flow of materials. JST utilizes SAP for control and management of raw materials. Incoming inspections are performed based on a Sampling Plan, and critical parts may be flagged for inspection beyond the criteria outlined in the Sampling Plan.

SWITCHGEAR

Q: Is Arc-Resistant technology available?

A: Not currently. Arc-Resistant switchgear is on the roadmap for commercial availability by mid-2023.

Q: Can JST Power Equipment Inc. Magnetically Actuated Circuit Breaker be closed in a black start situation without control power?

A: Not with the standard design but we can add accessories to enable manual closing of the breaker (e.g manual handheld generator, portable battery, etc.)

Q: Can JST Power Equipment Inc. Magnetically Actuated Circuit Breaker be opened without control power?

A: Yes, by manual means for maintenance purposes. An industry standard manual trip handle is located on the breaker.

Q: Can the Magnetically Actuated Circuit Breaker incorporate redundant trip coils?

A: The concept of redundant trip coils does not apply to magnetic actuation. The voltage across the inductive, toroidal, bistable trip/close coils is regulated by external capacitors and the circuit for energizing the trip/close coils is independent from the control circuit where traditional spring coils would be located. The control board has high impedance contacts which are positioned in the breaker control circuit. When the contact inputs are energized, the control board discharges capacitor energy across the inductive trip/close coils which are electrically independent from the control circuit. It is not physically possible to burn up a trip coil in the traditional sense, thus a redundant trip coil is not needed.

Q: How many auxiliary 52ab contacts are available with the breaker?

A: There are nine 52a contacts and nine 52b contacts available with the breaker.

Q: How many no-load operations is the breaker rated for?

A: 40kA/50kA: 5,000 no load operations; 31.5kA: 10,000 no load operations

Q: What is the maximum interrupting rating of the circuit breaker?

A: 50kA is the maximum available interrupting rating.

Q: What is the enclosure material of the switchgear?

A: A1011 HRPO Steel for the doors, A653-G90 Galvanized for the side sheets and structure

Q: How is the status of the control board monitored?

A: The “Ready” light will illuminate if the control board is ready for breaker operation

Q: How does the breaker respond if the control board fails?

A: The control board is self-monitoring and if on-board diagnostic logic determines the board has failed, it will send a “Breaker failure” signal to the protection relay

Q: How long does it take for the capacitors to charge after a full duty cycle?

A: It takes 40-60 seconds after O-.3s-CO to fully charge the capacitors. It takes about 60s to fully charge capacitors from black start.

Q: What testing certifications can JST Power Equipment Inc. provide related to the Magnetically Actuated Circuit Breaker?

A: C37.04 -2018 & C37.09-2018

Q: What is the design life of the Capacitor Tripping Device?

A: MTBF for Capacitor is ~20 years

Q: What types of tests has the PCB and Stored Energy Capacitor tripping device used to trip your Magnetically Actuated Circuit Breaker under short circuit conditions? EMC / EMI Testing, Age Acceleration Testing

A: EMI /EMC tests as well as environmental tests will be performed.

Q: Does JST Power Equipment have a Field Service Organization?

A: Yes. We support all products sold by JST globally. Contact the Lake Mary, FL facility to coordinate any field service support needs.

Q: Switchgear assembly: How do you ensure that the switchgear assembly process follows JST quality assurance processes and design standards?

A: JST employees are monitored during the assembly process, and the assembly is audited during all critical steps throughout the manufacturing process to ensure the switchgear is assembled per specification and quality guidelines.

Q: Which routine production tests are performed during Final Testing?

A: JST performs IEEE standard production tests and can provide testing per customer specifications. Routine production tests include:

Switchgear:

- Power Frequency
- Control Wire Continuity
- Control Wire Insulation
- Functional Testing

Breaker:

- Nameplate Check
- Control Wiring
- Mechanical Operation
- Timing Tests
- Conductivity of Current Path
- Power Frequency
- Interchangeability

Q: Which design tests have been performed to qualify the switchgear to acceptable industry standards?

A: Design tests are performed according to IEEE C37.20.2 for the switchgear and IEEE C37.09 for the breaker. Tests include:

- Dielectric Withstand
- Power Frequency
- Continuous Current
- Operating Duty and Interruption
- Short Circuit
- Load Current Switching
- Capacitive Current Switching
- Mechanical Endurance
- Control Voltage

Q: What is the maintenance interval between loaded and non-loaded operations for the JST Power Equipment Inc. Magnetically Actuated Circuit Breaker?

A: JST recommends servicing the breaker after 10,000 mechanical operations and 5,000 load operations.

Q: Does JST Power Equipment Inc. MV Switchgear meet the Process Industry Practices Specification (PIP ELSG02)?

A: Yes, with the exception to references to Arc-Resistance

AFTER MARKET SERVICE

Q: Are Competitive Comparison documents available?

A: Yes, competitive comparisons are available for reference by our sales organization. This information is managed confidentially.

Q: Is there a customer service team to support technical customer service calls?

A: Yes, we have a customer service team dedicated to supporting customer technical questions.

Q: Can JST Power Equipment Inc. MV Switchgear be certified for Marine Applications?

A: Not at this time.

Q: Can JST Power Equipment Inc. engineer, design, program and manufacturer generator and paralleling MV Switchgear (islanded, grid tie, etc.?)

A: Not in the roadmap.

Q: How do you ensure satisfactory packaging?

A: Packaging standards are created for all products and may be customized to meet the customers' requirements. JST is well experienced with shipping domestically and internationally using different means including air, land and sea.

Q: How is transportation controlled?

A: Our main transportation includes dedicated shipments. LTL Carriers are pre-approved. JST can meet any of your customer's INCOTERMS 2020 requirements.

Q: Have maintenance plans been developed for the various products manufactured by JST?

A: Yes. All equipment has O&M manuals that are provided to customers with the equipment.

SAFETY AND SUSTAINABILITY

Q: How do you ensure that you avoid using black-listed material?

A: All JST Power Equipment Inc. suppliers are required to go through a qualification process prior to becoming an approved vendor.

Q: Does the company have formal policies, procedures, and systems in place to prevent corrupt practices?

A: Yes. We also require annual training on FCPA (Foreign Corruption Practice Act).

ENVIRONMENTAL VISION

Q: What is JST Power Equipment Inc. doing to help overcome environmental issues and achieve both a higher quality of life and sustainability?

A: JST Power Equipment Inc is a leading supplier to the renewable energy market segment and provides new and innovative technology to drive carbon-free solutions. We are also committed to carbon reduction with alternate gases and lowering our overall carbon footprint. JST is also committed to reusable resource efficiency and preservation of nature. Lastly JST is investing in carbon reduction efforts at our facilities across the globe including the addition of solar panels and energy storage systems.