DAELIM PROJECT IN CANADA

JULY 2021
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Customer Background
The customer has more than 20 years of experience in the Canadian power industry, specializing in the design and manufacture of power transmission, distribution and substations, as well as suppliers of high and medium voltage equipment.

1. Professional
2. Experienced
3. Tech-ish
4. Teambased
CUSTOMER CONCERNS:

For this new customers, when they contact new suppliers, they will have many concerns. DAELIM eliminates customer these concerns through professional team communication.

1. The supplier is a manufacturer?
DAELIM: We are a professional IEC, ANSI/IEEE, CSA and AS standard transformer manufacturers. We accept any third party to audit factory.

2. They can provide faster delivery time than our previously supplier?
DAELIM: For normal transformers, our standard production time is 4-6 weeks, for customized transformer, our fastest production time is 6-8 weeks.

3. They can meet the T&D or products requirements?
DAELIM: We have a professional tech and production team. Our team can do transformer customized design and production as per customer requests.

4. They can meet our countries standard?
DAELIM: Our engineering team consists of many experienced experts. They are very professional and familiar with international standards.

5. How about their transformers price?
DAELIM: Because our factory located in the transformer base in China, we have well raw material supply chain. So we can always provide the competitive price to our customers.

6. They have experience in my country?
DAELIM: We are exported more than 30 countries around the world. And we are happy share our project case for our customer reference.
02. Project Case 1
Pole mounted and pad mounted transformers project

Location: Montreal, Canada

Quantities: 357 sets

Description: Pole mounted up to 167kva and Pad mounted up to 1000kva

The challenge:

- **ITEMS**: This project has 357 transformers, a total of 20 different items. DAELIM need detailed design for each items. Daelim was asked to provide production drawings within three weeks.

- **DELIVERY TIME**: Due to the project needs of end users, the production time of transformer is only 90 days. But DAELIM's production line is full at that time because other customers order.

- **CUSTOMIZED**: The single-phase transformer needs to meet the standards of CSA 2.1 and CSA 2.2, pad mounted transformer needs to meet the standards of CSA 227.4, and the design of transformer parts and marks of transformers need to customize production.

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DAELIM SOLUTIONS:

Understanding our customer needs allows us to make critical must-be-made decisions directly related to their needs.

1. Fast submit the drawing
In order not to affect the delivery time, DAELIM engineer team delivered the drawings in batches. 60% of the drawings were delivered within two weeks and production was arranged in time. The remaining drawings were successfully delivered in the remaining two weeks.

2. Make a good production plan
DAELIM's management pay much attention to the needs of customers, and has communicated with the production team and our supplier team for many times. The workers worked overtime to ensure the delivery of the customer requests.

3. 100% meet the standard requirements
Our team of engineers studied the CSA Standard carefully. Because they are based on IEEE standard, DAELIM designed and produced them according to it. For the existing technical problems or difference, our team has carried out hundreds of e-mail and telephone communication with customers.
Through the efforts of the whole team, we completed the production on time within 90 days.
TRANSFORMER TESTING

1. Ratio, Polarity, and Phase Relation
2. Resistance
3. Applied Potential
4. Induced Potential
5. Loss Test
6. Leak Test
7. Operation tests of all devices

When finish the production, DAELIM did above FAT tests for each transformer one by one, and submit the testing report in time.
TRANSFORMER PACKING AND SHIPPING

For single phase transformer, we used the wooden frame structure for the capacity up to 50kva, so it will save space and sea shipping cost.

For pad mounted transformer, we used the wooden pallet packing design, the customers can easy to take out the pad mount transformer from container.
Finally, after three months of production and one month of shipping, 357 sets transformers finally reached the customer’s location. Relevant tests were carried out before the customer put into operation, and all the transformers produced by DAELIM met the technical requirements of the customer.
03. Project Case 2
Three phase small substation transformer Project

The challenge:

- **CERTIFICATION**: This small substation transformer need approved by CSA certification.
- **ACCESSORIES**: All the accessories need keep high quality and from well-known brand.
- **CUSTOMER REQUIREMENTS**: This is a replacement project, the old transformer was ONAN type, now customer need ONAF type to meet their requirements.

Location: Montreal, Canada

Quantities: 3 sets

Description: 44/12.47KV 5/6.67MVA
DAELIM SOLUTIONS:

An experienced and efficient communication engineer, purchasing and sales team to connect with customers.

1. Professional communication
From transformer design to production, DAELIM's engineers and experts and CSA team have repeatedly communicated with each other on the requirements of transformer standards, parameters and accessories to ensure that they meet the requirements of CSA.

2. International accessories supply chain
DAELIM procurement team, taking advantage of its own supply chain, actively contacted our well-known accessories suppliers all over the world, worked with them to overcome the difficulties of epidemic situation, and ensured the smooth delivery and production of overseas accessories.

3. Advice, Expertise and High-Level Assistance
Although the customer's needs change again and again, DAELIM always gives patient answers and corresponding solutions. On the basis of maintaining the original transformer size, DAELIM upgraded the transformer to onan / ONAF type, and maintained low loss, thus saving the use cost of customers.

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For this three 5mva small substation transformer, it designed and produced by CSA C88-16, ANSI/IEEE C57.12.00 and ANSI/IEEE C57.90 standard. All the guages and accessories are from well-known brand, like ABB, Qualitrol and CAPT Italy.
1. Ratio, polarity and phase relation tests
2. Winding resistance measurement tests
3. Insulation power factor
4. Full wave and reduced wave impulse test
5. Applied and Induced potential tests
6. No-Load losses at rated current
7. Total losses at rated current
8. Percent impedance at rated current
9. DGA test
10. Leak test
11. Control abinet test

DAELIM completed all the FAT and special tests under the inspection of the CSA team.
TRANSFORMER CERTIFICATION

DAELIM transformer and all accessories met the requirements of CSA. Under the supervision of CSA team, DAELIM passed all the test contents and obtained the CSA certificate.

Three phase small substation transformer Project

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TRANSFORMER SHIPPING

For the shipping of this three 5mva transformers, DAELIM use the frame container. It not need remove the radiator and bushings, the customer can install it directly when the transformer at the location. It help our customer save other extral assembling service cost.
DAELIM actively assist with customers to complete the site test work, and all the data were consistent with the factory test data. Three small substation transformers were successfully put into operation.
04. Customer Comments
Customer Say:

Testimonials

During 3 years works with Daelim we found that they are a very high-effective team. Both their sales and engineers can speak very good English. Their transformers are super, people are so nice and with professional engineers. I know they must provide you very good transformers and services. Thanks for Daelim team who always give us quick reply and good prices. Hope we two company can gain more markets in the future!
05. About DAELIM
DAELIM Introduction

1. **R&D Capabilities:**
   They have strong R&D team and they have more than 20 years of transformer design experience and are familiar with lots of international transformer standards, such as IEC, IEEE / ANSI, CSA, etc. The technical team of DAELIM are experts, electrical engineers, CAD first-class draftsmen, etc. They also use the latest technology, machines and other modern facilities to produce transformers, but meanwhile DAELIM transformers are made of qualified standard materials which meets the standards of world-renowned suppliers through international procurement as well.

2. **Quality Control:**
   Quality is one of the core value of DAELIM. FAT, Type and third party inspection test are provided for quality and they tend to provide the best to its clients that’s why they strictly implement the ISO 9001 quality management system.

2. **Company Certifications:**
   ISO 9001:2008 CSA certification CESI certification CNAS certification SGS certification

1. **Company Certifications:**
   The Daelim team is full of experts and professional, this helps them to solve the customers’ problems quickly. All the DEALIM team had systematic training and is committed to continuous improvement by the quality guidelines and practices. Their dedicated customer service, product innovation, engineering excellence and strong social & environmental responsibility sense have made them to become a valued & trusted power solutions partner for globe electric industry.
Thank you

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