



DAELIM BELEFIC

DAELIM PROJECT IN NORTH AMERICA

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About DAELIM

01. Customer Background



1. Professional
2. Experienced
3. Tech-ish
4. Teambased

An Overview

The customer is an electricity distributor, for switchgear and industrial, power distribution etc. Texas, USA Company offering electrical engineering, oil & gas, bitcoin mining in business for over 30 years.



CUSTOMER CONCERNS:

The customer DAELIM had contacted them proactively and left a deep impression on them, and later received an inquiry from them. DAELIM serves customers through a professional team and gains the trust of customers.

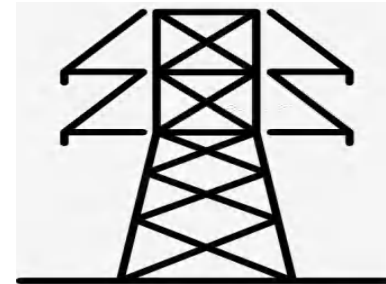


1.The supplier is a manufacturer?

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.

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.



TRANSFORMER PICTURES



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.





TRANSFORMER INSTALLATION

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

The challenge:

Three phase small substation transformer Project



This small substation transformer need certificated by UL.



All the accessories need keep high quality and from well-known brand.



The customer has strict requirements for delivery time. DAELIM responds quickly after receiving the order and provides the customer with drawings within two weeks.

Location: Odessa, Texas

Quantities: 90 sets

Description: Substation transformer 2501(3000)KVA
13.8kV Delta 415GrdY/240
KNAN/KNAF

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 IEEE team have repeatedly communicated with each other on the requirements of transformer standards, parameters and accessories to ensure that they meet the requirements of IEEE.

2. Contact the customer

This project is a cryptocurrency project. We maintain close contact with the customer regarding the progress of this order, provide timely feedback, and send production images.

3. Advice, Expertise and High-Level Assistance

Although the customer's needs change again and again, DAELIM always gives patient answers and corresponding solutions. DAELIM provides customers with high-quality service, and they have great trust in us, achieving a win-win situation for both parties.

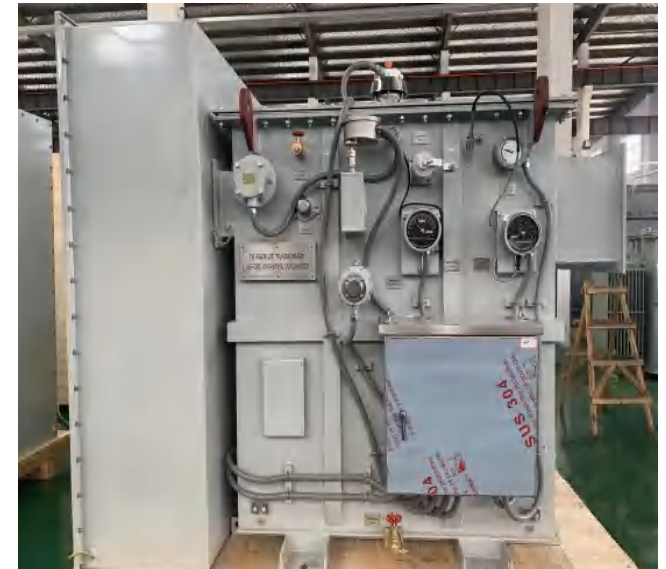


TRANSFORMER PICTURES



For this 90 sets 2501(3000)kva small substation transformer, it designed and produced by IEEE C57 12.36.

DAELIM produces colors, pressure regulating switches, accessories, pressure relief valves, etc. according to customer customization requirements, and can customize according to the brand and model requirements.

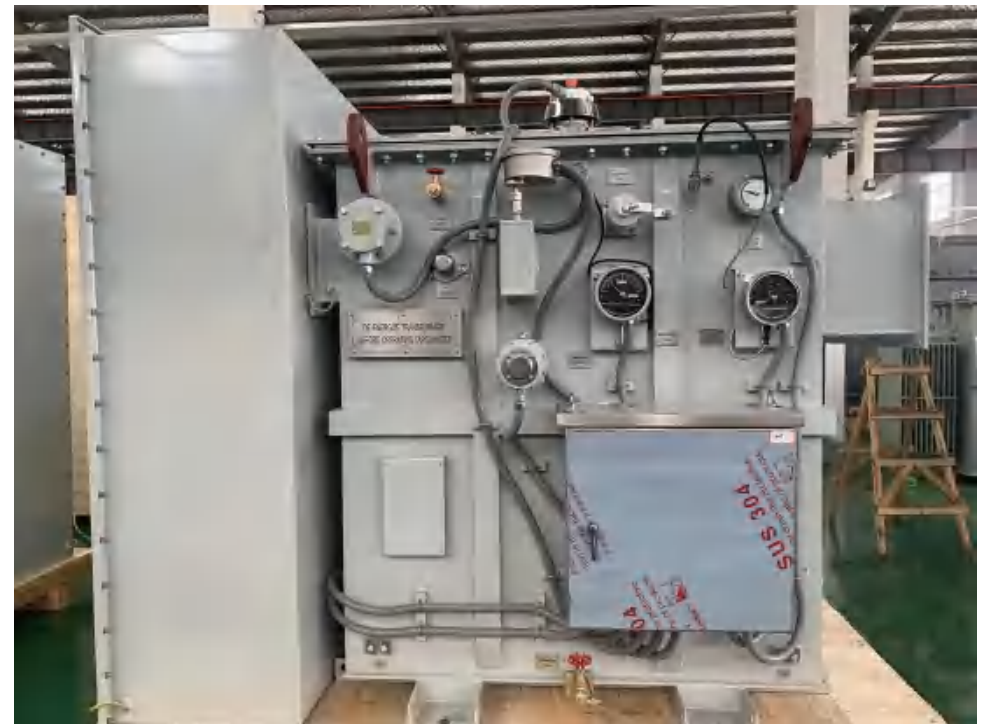




TRANSFORMER TESTING

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 cabinet test

DAELIM completed all the FAT and special tests under the inspection of the UL team.



TRANSFORMER CERTIFICATION

DAELIM transformer and all accessories met the requirements of IEEE.

DAELIM transformers comply with IEEE standards and UL certification.

Moreover, the DAELIM transformer will issue a test report after completion.

试验报告 TEST REPORT

产品名称: 三相站式变压器

Name of Product: Three Phase Substation Transformer

产品型号: SFL-2501(3000)/34.5/0.48

Type of Product: SFL-2501(3000)/34.5/0.48

出厂编号: DL2209080

Ex-work Serial No: DL2209080

试验单位: 江苏林达鸿利电气有限公司

Test Place: JIANGSU DAELIM ELECTRIC CO., LTD.

CERTIFICATE OF COMPLIANCE	
Certificate Number	UL-US-0277296-1
Report Reference	ES07100-20220522
Date	10-Aug-2022
Issued to:	Jiangsu Daelim Electric CO., LTD. 100 Wanda Road, Qutang Town, Haiyan City, Nanjing, Jiangsu 226551 China
This is to certify that representative samples of	XFL11- Transformers, Distribution, Liquid-filled Type, Over 600 V/0kV See Addendum Page for Product Designation(s).
	Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	IEEE C57.12.00, 1st Ed., Issue Date: 2015-12-05, IEEE C57.12.25, 1st Ed., Issue Date: 2014-05-19
Additional Information:	See the UL Online Certification Directory at https://ul.com/certification for additional information.
<p>This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorized Representative of the Factory/Service Provider for ongoing surveillance provides authorization to apply the UL Mark.</p> <p>Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Service.</p> <p>Look for the UL Certified Mark on the product.</p>	
 	



TRANSFORMER SHIPPING



For these 90 small substation transformers with 250I (3000) KVA. We use wooden boxes for packaging, which is more stable during transportation and provides better service to customers.





TRANSFORMER INSTALLATION

The DAELIM transformer has been successfully installed and put into use.



04. Project Case 3

Single phase pad mounted transformer project

Location: Alberta, Canada

Quantities: 80 units

Description: 14.4kV/0.24(0.12)KV
37.5kVA

The challenge:

SPECIAL
REQUIREMENTS

Pentahead bolts need to be stainless steel, tank color is customized by client, different temperature rise and marks requirements.

CUSTOMIZED
DESIGN

Client has his own technical requirements for transformers, so this order is completely customized, including the dimensions, accessories, and temperature rise.

UTILITY LEVEL
SERVICE

This client is a local Utility, so designing ability, products' quality, after-sales service and reference are all important for them.

DAELIM SOLUTIONS:

Complicated designing, good quality and service will be guaranteed by an expert team

1. Efficient detail confirmation

In order to 100% meet client's special needs, we efficiently confirmed technical details with clients one by one. From the main technical information to transformer parts material and even the dimension, all technical details were confirmed within 3 days.

2. Professional drawing design to meet special needs.

After confirming all the technical specs, DAELIM's engineers paid attention to the design, and revised and submitted the drawing according to client's needs within 2 weeks. Finally, this client recognized our designing ability and placed the purchasing order.

3. Offering services with partners

We strictly produced the transformers to meet the Utility high level quality requirements. And we worked with our Canadian partners together to offer the high quality transformers and after-sales service.



TRANSFORMER PICTURES

For this single phase 37.5kva pad mounted transformer, it designed and produced by CSA C227.3, bolts are stainless steel material, oil tanks are seafoam green color, winding temperature rise is 55°C.





TRANSFORMER TESTING

1. Ratio, Polarity, and Phase Relation
2. Resistance
3. Applied Potential
4. Induced Potential
5. Loss and Impedance 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 pad mounted transformer, we used the wooden frame structure and pallet to save space and freight.



05. Project Case 4

The challenge:

Three phase power transformer Project



This power transformer is a KNAN/KNAF/KNAF design, it not so many case for vegetable oil used in such high voltage in China.



It is a seal in tank design. Also need oil preservation system.



This transformer is around 60 tons, and the shipping weight over 50tons, so it a challenge for sea shipping.

Location: Nevada,USA

Quantities: 1 sets

Description: 230/24.94KV
10/12.5/15MVA

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 our partners with customers have repeatedly communicated with each other on the requirements of transformer standards, parameters and accessories to ensure that they meet the requirements of IEEE.

2. Customized design as per special requirements

Based on years of experience in the IEEE/ANSI standard overseas market, DAELIM's power transformer engineer team has improved and optimized our existing oil tanks and paint processes to meet the special technical requirements of customers.

3. Business support team assistance

DAELIM's business support team has closely collaborated with the customer's logistics team. We always pay attention to every detail of sea and land transportation, and monitor the entire transportation process through the installation of impact recorders. Ultimately, the transformer is safely transported to the site.



TRANSFORMER PRODUCTION PROCESS





TRANSFORMER TESTING

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 cabinet test

This transformer passed all the test as per IEEE C57.12.00 and IEEE C57.12.90 at one time.





TRANSFORMER SHIPPING AND INSTALLATION





TRANSFORMER SHIPPING AND INSTALLATION

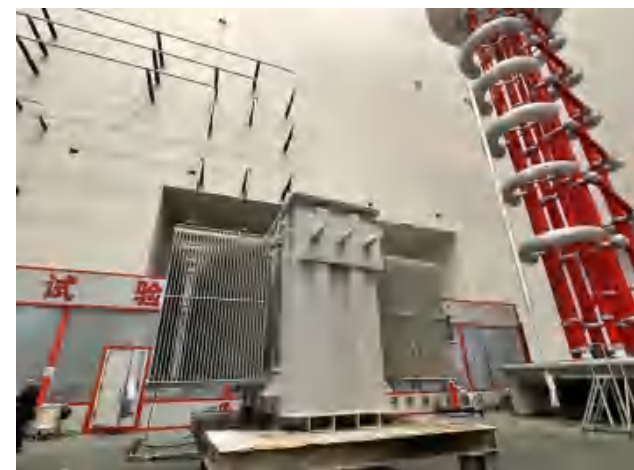


06. Other Project Show

SMALL SUBSTATION TRANSFORMER PICTURES



25KV 20MVA UL
CERTIFICATED



POLE AND PAD
MOUNTED
TRANSFORMER
PICTURES

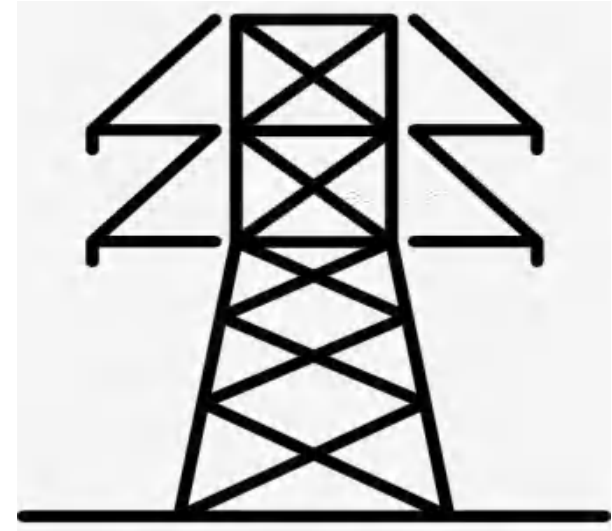


USA UTILITIES



07. Customer Comments

Customer Say:



Testimonials

We not only purchased transformers from Daelim but also experienced their high-quality service and quick response. Their team of engineers to be very professional, as was their sales staff! We thank Daelim's team for providing us with a very good design and fast delivery time. Not only did they help us save time, but they also helped us save costs, and they really helped our business a lot. Thanks again.

08. 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.

3. **Company Certifications:**

ISO 9001:2008 UL/CUL certification CSA certification CESI certification CNAS certification SGS certification

4. **Professional team:**

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.

DAELIM Introduction



5. *Brand:*

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS:

- A. ABB/Hitachi
- B. Eaton/Cooper Power Systems.
- C. Delta Star.
- D. General Electric.
- E. Kuhlman.
- F. Pauwels.
- G. Square D.
- H. Virginia Transformer.
- I. Sunbelt
- J. **Daelim Belefic**





DAELIM BELEFIC

Thank you