



Product & Service Portfolio

ELECTRICAL ENGINEERING SERVICES

|| Zaman Associates ||

COMPANY PROFILE:

ZAMAN ASSOCIATES is an enterprise of Import-Export, Manufacturing, Sales & Marketing, Distribution as well as developing the business sector of Electrical-Electronics & Solar Power.

We are the Exclusive Agent for **ANDELI** brand MCB, MCCB, RCCB, MPCB, SPD, ACB, VCB, AC Overload Relay, Frequency Inverter, Soft Starter, LCD display Din rail type kWh meter, Automatic Voltage e Stabilizer, Welding Machine and so on. **ANDELI** is the largest manufacturer in China which has worldwide brand image even in China local market. Also we are the Exclusive Agent of SY (ShengYe) brand PFC capacitors, PFC Relay & Reactor, SANAI brand LT-CT, HT-CT & HT-PT for both 11KV & 33KV. SAIPWELL Brand Solar Charge Controller as well as street light Charge Controller including all other solar products.

We are also manufacturing & marketing LT/HT Switchgear, PFI Plant, MDB, SDB, Star Delta Starter, DOL Starter, Industrial Electric Wiring & Servicing, HT Metering unit & CT - PT, Package Type Sub - Station, Busbar Trunking System (BBT), Motor Speed Controller, Industrial Automation etc.

Zaman Associates & XD High-Tec (the Schneider & Siemens authorized brand switchgear manufacturer) are the business partner for jointly work together in projects related to the branded or customized Switchgear of Low Voltage (LV) Series to Medium & High Voltage, electrical distribution and transmission equipment supply, planning, designing, manufacturing, installation, commissioning as well as after sell-service. We have wide range of experience on completed substation & Switchgear. XD High-Tec is certified switchgear manufacturer. We commit to serve the best to our clients who trust on quality.

Our each product has individual serial number to easy tracking for warranty purpose. All the products are reliable to ensure maximum safety. Most of our Brand products are well certified by reputed organizations of testing & certifications. Besides we are promoting our own Brand SOLAX which is for Modern Touch switch & Sockets, Switch Sensor, Control Switch for solar, wiring accessories & LED lightings also are focus under the SOLAX brand.

SOLAR'X POWER is a sister concern of Zaman Associates. It has also performed sales, marketing, distribution & supply on behalf of Zaman Associates. For quality electrical and industrial power products with guarantee and reliability **ZAMAN ASSOCIATES** is the name behind you. You may find our Brand Authorized Chain Distributor around the country.

It is our goal to engage much people to use quality electrical product to ensure maximum safety.

Our Services

We provide Electrical services (Installation & Maintenance) all over the country with expert national & International Engineer. We also provide on call and contract basis services. And it is divided into two categories-

- Long Termed Service Agreement (LTSA)
- Short Termed Service Agreement (STSA)

Some of our Service & Manufacturing items are-

1. HT & LT Switchgear	6. DOL Starter	11. Solar Panel & Service
2. PFI	7. Meter Panel Box	12. System Automation
3. ATS	8. MDB, DB, SDB etc.	13. Electrical Design (2d & 3D)
4. Motor Starter	9. Motor Speed Controller	14. Electrical Installation etc.
5. Star-Delta Starter	10. Sensing Devices	

Our Products

We provide different kind of Electrical and its related items. We have wide range of products from our stock which can fulfill all of your demand.

Some of our Products are-

1. MCB	9. Frequency Inverter	15. HT CT
2. MCCB	10. Automatic Voltage Stabilizer	16. HT PT
3. RCCB	11. Relay, Timer, Phase Failure Relay	17. LT CT
4. MPCB	12. Welding Machine	18. LBS
5. SPD	13. Power Supply	19. Drop Out Fuse
6. ACB	14. PFC Relay	20. Lightning Arrester
7. VCB		21. Switch - Socket etc.
8. AC Overload Relay		22. Float less Level Switch Relay

Client LIST (PRODUCT SUPPLY):

Sl.	Company Name
1.	ALIF GROUP
2.	ANANTA GROUP
3.	ANWAR LANDMARK (ANWAR GROUP)
4.	ARISTO PHARMA LTD.
5.	AROW RUBBER
6.	BASHUNDHARA PAPERS MILLS LTD U-1
7.	BEACON POWER ENGINEERING LTD.
8.	BE DO KOREA
9.	BHS GROUP
10.	BRAND GROUP
11.	DHAKA ONE LTD.
12.	FORTUNA SHOE
13.	HAMIM GROUP
14.	HAMID GROUP
15.	HENOLUX GROUP
16.	ISLAM GROUP
17.	ISPAHANI GROUP
18.	JABA TEXTILE MILLS LTD.
19.	JALAL AHMED SPINNING MILLS LTD.
20.	JAPAN TAGUCHI CONSTRUCTION CO. LTD
21.	KASHIPUR SALT INDUSTRIES
22.	KHALAK GROUP
23.	KITI INDUSTRIES LTD.
24.	KNIT RADIX LTD.
25.	LABIB GROUP
26.	LE MERIDIEN DHAKA, HOTEL
27.	MAJEDA & SONS- FURNITURE MANUFACTURER
28.	MAMUN TANNERY
29.	MARK WASH AND DYENG LTD.
30.	MEGHNA GROUP
31.	METTRICKS
32.	MICRO FIBRE GROUP
33.	MILLAT PHARMACEUTICALS
34.	MIRACLE INDUSTRIES LTD.
35.	NAKSHI KANTHA PP MATT
36.	NAVANA GROUP
37.	PARUMA SHOE
38.	PUBALI GROUP OF INDUSTRIES
39.	QUALITY PLUS LTD.
40.	REGIUS INTERNATIONAL PRINTING & PACKAGING
41.	SHAH FATEHULLAH TEXTILE MILL LTD.
42.	SHARMIN GROUP
43.	SHEIKH FAZILATUNNESA HOSPITAL LTD.
44.	SUMON PLASTIC INDUSTRIES
45.	SUNMOON RUBBER & PLASTIC INDUSTRIES
46.	TARUNNACHHA HOSPITAL
47.	TFC FAN
48.	TOTAL PHARMA LTD.
49.	TUSHUKA

Client LIST (SERVICE AND SYSTEM SOLUTION):

Sl.	Company Name	Service
1.	ANWAR LANDMARK (ANWAR GROUP)	SUBSTATION, MDB & LONG TERM SERVICE AGREEMENT (LTSA)
2.	AB POWER ENGINEERING LTD	SUBSTATION & LONG TERM SERVICE AGREEMENT (LTSA)
3.	BEACON POWER ENGINEERING LTD.	SUBSTATION & LONG TERM SERVICE AGREEMENT (LTSA)
4.	COLOR VISION PRINTING PRESS	PFI & LONG TERM SERVICE AGREEMENT (LTSA)
5.	COCOLA FOOD INDUSTRIES	SUBSTATION, AUTOMATION, INVERTER SET UP AND LONG TERM SERVICE AGREEMENT (LTSA)
6.	CHINA RAILWAY ENGINEERING GROUP LTD.	SUBSTATION & LONG TERM SERVICE AGREEMENT (LTSA)
7.	CHINA NORTHEAST ELECTRIC POWER ENGINEERING& SERVICES CO., LTD.	SUBSTATION & LONG TERM SERVICE AGREEMENT (LTSA)
8.	FAIR MUDRON PRINTING PRESS	PFI & LONG TERM SERVICE AGREEMENT (LTSA)
9.	HAMID GROUP	SUBSTATION, FULL ELECTRICAL RENOVATION WORK ACCORDING TO ACCORD BANGLADESH
10.	JAPAN TAGUCHI CONSTRUCTION CO. LTD	SUBSTATION, ATS, MDB & LONG TERM SERVICE AGREEMENT (LTSA)
11.	KASHIPUR SALT INDUSTRIES	SUBSTATION, PFI & LONG TERM SERVICE AGREEMENT (LTSA)
12.	KIB COMPLEX BHABAN	AUTOMATION & SHORT TERM SERVICE AGREEMENT (STSA)
13.	KNIT RADIX LTD.	SUBSTATION, HT PANEL & LONG TERM SERVICE AGREEMENT (LTSA)
14.	LE MERIDIEN DHAKA, HOTEL	SUBSTATION, INVERTER SET UP AND AUTOMATION
15.	MADINA CEMENT INDUSTRIES (TIGER CEMENT)	SUBSTATION, MDB & LONG TERM SERVICE AGREEMENT (LTSA)
16.	MAJEDA & SONS- FURNITURE MANUFACTURER	LONG TERM SERVICE AGREEMENT (LTSA)
17.	PUBALI GROUP OF INDUSTRIES	SUBSTATION, MDB & LONG TERM SERVICE AGREEMENT (LTSA)
18.	REGIUS INTERNATIONAL PRINTING & PACKAGING	LONG TERM SERVICE AGREEMENT (LTSA)
19.	RUPPUR NUCLEAR POWER PLANT PROJECT	AUTOMATION & SHORT TERM SERVICE AGREEMENT (STSA)
20.	UNICODE TECHNOLOGIES LIMITED	AUTOMATION & SHORT TERM SERVICE AGREEMENT (STSA)
21.	YOUNUS GROUP OF INDUSTRIES	SUBSTATION, AUTOMATION & LONG TERM SERVICE AGREEMENT(LTSA)

ANDELI AUTHORIZATION

TO, ZAMAN ASSOCIATES (BANGLADESH)
WE HEREBY AUTHORIZE YOU TO USE OUR
COMPANY NAME ANDELI AND LOGO ANDELI
AS OUR EXCLUSIVE AGENT.

YOUR TRULY
Sign: 

ANDELI GROUP CO., LTD

ANDELLI GROUP CO., LTD. (BANGLADESH)

ANDELLI

EXCLUSIVE AGENT



2018.01.01 - 2029.12.31

ANDELI

ISO9001:2008

ANDELI GROUP CO.,LTD.

ADD: NO.208WEIQI ROAD,YUQING ECONOMIC DEVELOPMENT ZONE, YUQING,ZHEJIANG,CHINA
TEL:0086-0577-62731666 FAX:0086-0577-62731777 P.R:325604
Http://www.andeligroup.com E-mail:andeli@andeligroup.com

QUALITY ASSURANCE CERTIFICATE

We are happy to undertake that our ANDELI Brand Circuit breakers has 5 years replacement warranty, And the related products for substation such as magnetic contactors, relay, air circuit breaker as well as all other products has at least 1 year warranty.

Warranty Terms: Physical damage, burning by low quality wire connection, removing warranty label or any misuse by non-appropriate devices will not cover warranty.

Repair and replacement guarantee for any manufacturing fault from the date of purchase. Replacement is applicable after testing of Products. The supplier's warranty policy will be applicable.

Quality Assurance:

We are obliged to ensure that the deliverables of the products are of high quality. We shall implement a quality assurance system with at least is in accordance with normal industry practice. Andeli have passed ISO9001:2008 Quality Management System, Measure Detection System, Standardization System Certification and "CCC" for all products in the market. We also have ROHS, CE, CB, SIMKO, KEMA and many other international certificates.

Andeli is the leading group in the electrical industry, with production, scientific research, transport, import and export trade, investment. We are a largest group without regional limit, cross-industrial in China. Andeli owns 12 share holding companies in Shanghai, Hunan, Zhejiang, UAE and over 300 cooperation companies. Andeli has over 3000 workers with total assets of USD150,000,000 in 235,000 square meters. "ANDELI" trademark is identified as one of the Chinese well-know trademarks.

Thanking you,

Mao Huiming
Vice-President



**Shaanxi XD Hi-tech Medium-low
Voltage Apparatus Co., Ltd.**



This certificate Authorized to
Zaman Associates
as Exclusive Agent in Bangladesh

President: 

Date of Issue: 20/05/2018

Term of validity: 05/2018-04/2022





Sheng Ye Electric Co., Ltd.

Certificates of Sole Agentship

Certificate No.:SYZA20181020

Validity:Jan1,2019-Dec 31,2021

We Authorize,

ZAMAN ASSOCIATES

Is our Sole Agent for Sales-Marketing & after Sales Service of SY brand

PFI Capacitor,PFI relay,Reactor& Capacitor Bank in Bangladesh.

Authorized By



AUTHORIZED CERTIFICATE FOR AGENT

**WE HEREBY CERTIFY THAT ZAMAN ASSOCIATES
ADD: 134/134/1, NAWABPURROAD, DHAKA - 1100,
BANGLADESH IS OUR AGENT IN BANGLADESH .
THE AGENT IS AUTHORIZED TO SALE OUR CURRENT
TRANSFORMER AND POTENTIAL TRANSFORMER
UNDER THE SANAI BRAND.**

SANAI

CEO :



ON BEHALF OF SANAI TRANSFORMER CO., LTD

ফরম-ই



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
বিদ্যুৎ লাইসেন্সিং বোর্ড

বৈদ্যুতিক ঠিকাদারি লাইসেন্স

লাইসেন্স নং-সি ৫২/২২৯৪৯

তারিখ : ৩০/০৫/০৮

জনাব/মেসার্স

জাহান প্রোসেসিং

২৭৭, কান্তার স্ট্রাট, কমপ্লেক্স, ৫৯নং, নতুনপুত্র রোড, ঢাকা-১১০০।

এই লাইসেন্সের বর্ণনানুসারে বাংলাদেশের সর্বত্র বৈদ্যুতিক স্থাপনার কাজ সম্পাদন করিবার জন্য অনুমতি দেওয়া হইল। ৯ম পৃষ্ঠায় উল্লিখিত শর্তাবলী শালন সাপেক্ষে এই লাইসেন্স প্রদান করা হইল।

সচিব
বিদ্যুৎ লাইসেন্সিং বোর্ড,
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার।

চেয়ারম্যান
বিদ্যুৎ লাইসেন্সিং বোর্ড,
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার।

২

অনুমতিপ্রাপ্ত কাজের শ্রেণি/বিবরণ :

শ্রেণী-কখগ

“নিম্ন, মধ্যম ও উচ্চ” চাপ বিশিষ্ট বৈদ্যুতিক যন্ত্রপাতি
স্থাপন মাত্র (বিদ্যুৎ বিধিমালা ১৯৩৭ ইং)।

(থেকেই মোঃ আকতার রহমান মেসার্স)
সচিব
বিদ্যুৎ লাইসেন্সিং বোর্ড
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার, ঢাকা।

Certificate No. **2445 / 2014**



BANGLADESH ELECTRICAL ASSOCIATION

Licensed by the Government of Bangladesh, Registered under section 28 of the Companies Act, 1994 and affiliated with The Federation of Bangladesh Chambers of Commerce and Industry.

Aziz Electrical Market (3rd Floor), 125/126, Nawabpur Road,
Christia Electrical Market (4th Floor), 134, Nawabpur Road, Dhaka-1100, Bangladesh.

MEMBERSHIP CERTIFICATE

This is to Certify that M/s. ZAMAN ASSOCIATES

Address: 134, 134/1, Nawabpur Road, 2 nd Floor, Dhaka-1100


is a Member of this Association in the *General/ Associate Group.*

This Membership shall remain Valid upto The 31 December 2014

This Certificate is issued on The 27 August day of 2014



MD. EZAMUL HAQUE
Secretary
Bangladesh Electrical Association
1442, Nawabpur Road, Dhaka-1100


(MOZAMMAS AFTAB JAZEDI)
Secretary
Chairman/Vice-Chairman
1442, Nawabpur Road, Dhaka-1100



Certificate of Participation


This is to certify that

ZAMAN ASSOCIATES

Participated in the 1st International Industrial Yellow pages Expo 2018
Held from 22 ~ 24 February 2018 at Bangabandhu International Conference Center

Dhaka, Bangladesh

We thank them for their participation


Authorization

Organized by:





OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 00116S20007R1M/3302

We hereby certify that
Andeli Group Co., Ltd.

No.208, Weiqi Road, Economic and Technological Development Zone, Yueqing City, Zhejiang
Province, China

has been awarded this certificate for compliance with the standard
OHSAS 18001: 2007 GB/T 28001-2011

This certificate is valid concerning occupational health and safety
management system related to

**Design and Production of High-low Voltage Electric Components, High-low Voltage
Switchgear Assemblies, 10-2500KVA Power Transformer, Watt-Hour Meter and Related
Management Activities**

Certified since: January 15, 2013 Valid from: January 4, 2016 Valid until: January 14, 2019

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.



Signed by: Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China
<http://www.cqc.com.cn>

S 0001626

2015年版



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 00116E20002R1M/3302

We hereby certify that

Andeli Group Co., Ltd.

No.208, Weiqi Road, Economic and Technological Development Zone, Yueqing City,
Zhejiang Province, China

by reason of its
Environmental Management System

has been awarded this certificate for compliance with the standard

ISO14001:2004 GB/T24001-2004

The Environmental Management System Applies in the following area:

Design and Production of High-low Voltage Electric Components, High-low Voltage Switchgear
Assemblies, 10-2500KVA Power Transformer, Watt-Hour Meter and Related Management
Activities

Certified since: Jan. 15, 2013 Valid from: Jan. 04, 2016 Valid until: Jan. 14, 2019

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.
(The validity of the ISO14001:2004 certificates expires on 15/09/2018. Please transfer to new edition certificates before that time.)



Wang Keqiao
Signed by: Wang Keqiao



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China
<http://www.cqc.com.cn>

E 0003979

2015年版



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 00116Q20073R4M/3302

We hereby certify that
Andeli Group Co., Ltd.

Organization Code Certificate: 14554623-1

No.208, Weiqi Road, Economic and Technological Development Zone, Yueqing City, Zhejiang
Province, China

by reason of its
Quality Management System
has been awarded this certificate for compliance with the standard
ISO9001: 2008 GB/T19001-2008

The Quality Management System Applies in the following area:

Design, Production and Service of High-low Voltage Electric Components, Low Voltage Switchgear
Assemblies, 40.5kV And Below High Voltage Switchgear Assemblies, 10-2500KVA Power Transformer and
Export Electronic Single-phase Multi-Rate Watt-Hour Meter

Certified since: Jan. 08, 2004 Valid from: Jan. 04, 2016 Valid until: Apr. 06, 2019

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.
This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's Republic
of China (www.cnca.gov.cn).
(The validity of the ISO9001:2008 certificates expires on 15/09/2018. Please transfer to new edition certificates before that time.)




Signed by: Wang Huijiao



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xiba(West Road), Beijing 100070,China
<http://www.cqc.com.cn>

Q 0007600

2015年版

DEPARTMENT OF
ELECTRICAL AND ELECTRONIC ENGINEERING

TEST REPORT ON SINGLE PHASE 16A MINIATURE
CIRCUIT BREAKER SUPPLIED BY ZAMAN
ASSOCIATES, DHAKA

BRTC Ref. No.: 1101- 41798/EEE/2017-18 Date: 13/08/2017
Client's Ref. No.: Nil Date: 12/08/2017



Bangladesh University of
Engineering and Technology, Dhaka

TEST REPORT ON SINGLE PHASE 16A MINIATURE
CIRCUIT BREAKER SUPPLIED BY ZAMAN
ASSOCIATES, DHAKA

BRTC Ref. No.: 1101-41798/EEE/2017-18 Date: 13/08/2017
Client's Ref. No.: Nil Date: 12/08/2017

তড়িৎ ও ইলেকট্রনিক কৌশল বিভাগ
বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়, ঢাকা-১২০৫
ফ্যাক্স/ফোন : +৮৮০-২-৯৬৬০০৫৪ (সরাসরি)
পিএবিএক্স : +৮৮০-২-৫৫১৪৭১০০, ৫৫১৪৭২৩৮-৫৭/৯১৪০, ৯১৪২
ফ্যাক্স : +৮৮০-২-৯৬৬০০৫৪, +৮৮০-২-৯৬৬০০২৬



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Dhaka-1205, Bangladesh

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Fax : +880-2-9660054, +880-2-8613026
E-mail : headeee@eee.buet.ac.bd

TEST REPORT ON SINGLE PHASE 16A MINIATURE CIRCUIT BREAKER SUPPLIED BY
ZAMAN ASSOCIATES, DHAKA

BRTC Ref. No.: 1101-41798/EEE/2017-18
Client's Ref. No.: Nil

Date: 13/08/2017
Date: 12/08/2017

Date: August 29, 2017

The performance tests are conducted and the report is prepared by the Department of Electrical and Electronic Engineering of Bangladesh University of Engineering and Technology (BUET), Dhaka-1000, Bangladesh.

ONLY THE ORIGINAL COPY OF
THIS REPORT IS ACCEPTABLE

Head of the Department
Department of Electrical and Electronic Engineering
Bangladesh University of Engineering and Technology (BUET)
Dhaka-1000, Bangladesh

তড়িৎ ও ইলেকট্রনিক কৌশল বিভাগ
বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়, ঢাকা-১২০৫
ফ্যাক্স/ফোন : +৮৮০-২-৯৬৬০৫৪ (স্বাধীন)
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E-mail : headeee@eee.buet.ac.bd

TEST REPORT ON SINGLE PHASE 16A MINIATURE CIRCUIT BREAKER SUPPLIED BY
ZAMAN ASSOCIATES, DHAKA

BRTC Ref. No.: 1101-41798/EEE/2017-18
Client's Ref. No.: Nil

Date: 13/08/2017
Date: 12/08/2017

1. INTRODUCTION

The General Manager, Zaman Associates, Shatabdi Center (12th floor), Suite: A1, 292 Inner Circular Road, Fakirapool, Motijheel, Dhaka-1000, Bangladesh has requested Bureau of Research, Testing and Consultation (BRTC), Bangladesh University of Engineering and Technology (BUET) to carry out necessary tests on the sample of 16A single pole Miniature Circuit Breaker (MCB). In response to the request, the performance tests of the supplied samples were conducted in the laboratory of the Department of Electrical and Electronic Engineering of BUET in accordance with IEC 60898-1 standard.

2. SAMPLE SPECIFICATIONS

Four samples of 16A single pole miniature circuit breaker were supplied. The lot size and the mode of sampling were unknown. Out of these four samples one sample was randomly chosen and tested. The specifications from marking on the sample are shown in Table 1.

Table 1: MCB sample specifications

Description of the Product	Product Name	Quantity
Single-phase 230V~50Hz, 16A MCB	ANDELI (DZ55-63 C16)	1

3. TESTS

The following tests and measurements were carried out on the supplied MCB.

1. Mechanical operation test
2. Power frequency high voltage test
3. Rated current test
4. Temperature rise test
5. Thermal overload test
6. Magnetic trip test

তড়িৎ ও ইলেকট্রনিক কৌশল বিভাগ
বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়, ঢাকা-১২০৫
ফ্যাক্স/ফোন : +৮৮০-২-৯৬৬৮০৫৪ (স্বয়ংক্রিয়)
পিএবিএস : +৮৮০-২-৯৬৬৮১০০, ৯৬৬৮১২৮-৯৬৬৮১৫০, ৯৬৬৮১৫২
ফ্যাক্স : +৮৮০-২-৯৬৬৮০৫৪, +৮৮০-২-৯৬৬৮০২৯



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Fax : +880-2-9668054, +880-2-8613028
E-mail : headeee@eee.buet.ac.bd

TEST REPORT ON SINGLE PHASE 16A MINIATURE CIRCUIT BREAKER SUPPLIED BY
ZAMAN ASSOCIATES, DHAKA

BRTC Ref. No.: 1101-41798/EEE/2017-18
Client's Ref. No.: Nil

Date: 13/08/2017
Date: 12/08/2017

The tests and measurements were carried out as per IEC 60898-1 standard. The tests were performed at 30.2°C ambient temperature.

3.1 Mechanical Operation Test

The operation of different parts of the MCB was observed manually.

Test Result: The operation of all parts of the MCB was found satisfactory.

3.2 Power Frequency High Voltage Test

A high voltage of 2.5kV, 50 Hz was applied between the terminals and the body of the MCB. The voltage was applied for one minute.

Test Result: No breakdown was observed. The sample safely withstood power frequency high voltage test.

Comment: Power frequency high voltage withstand test of the MCB was found satisfactory.

3.3 Rated Current Test

The MCB under test was connected to a current injector and rated current was injected to one end of the MCB. Trip time as well as the temperature of the terminals was monitored.

Test Results: Normal behavior was observed during this test. The MCB did not trip at rated current for a long period of time.

Comment: The rated current test is found to be satisfactory.

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3.4 Temperature Rise Test

The MCB under test was connected to a current injector and rated current was injected to one end of the MCB. The temperature of the terminal was recorded at regular interval.

Test Result:

Final steady state temperature	= 37.1 °C
Ambient temperature	= 30.2 °C
Temperature rise	= 6.9 °C

Comment: The maximum temperature rise of the MCB was found within the limit as per standard.

3.5 Thermal Overload Test

High currents of different amplitude levels above the rated value were injected to the MCB. Adequate time was given between successive injections.

Test Result: Tripping occurred during the test. The higher was the current; the lower was the tripping time (inverse relationship).

Comment: Thermal overload test results of the supplied MCB are satisfactory.

3.6 Magnetic Trip Test

Required current from a high current injector was injected to the MCB.

Test Result: The MCB sample was tested for currents greater than five times of its rated current. Instantaneous tripping of the MCB was observed for current of 88A and higher.

Comment: The magnetic trip test result for the MCB was found to be satisfactory.

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4. SUMMARY

The test results are summarized in Table 2.

Table 1: Summary of the test results on the supplied MCB

Serial No.	Tests	Performance
1	Mechanical Operation Test	Satisfactory
2	Rated Current Test	Satisfactory
3	Power Frequency High Voltage Test	Satisfactory
4	Temperature Rise Test	Satisfactory
5	Thermal Overload Test	Satisfactory
6	Magnetic Trip Test	Satisfactory

Signature

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