



شركة المصنع الحديث لمستلزمات الكهرباء

Electrical A. Modern Factory Co.

Distribution - Lighting - Control Panel Boards - Substation



COMPANY PROFILE

SECOND INDUSTRIAL CITY

TEL: 013-8123463

FAX: 013-8123467

AL-MADINA AL MONWRAH ST. (23 ST.)

P.O.BOX 422 - DAMMAM 31411

KINGDOM OF SAUDI ARABIA

WWW.EAMFCO.COM



المقدمة

تأسست شركة المصنع الحديث لمستلزمات الكهرباء (إيمفكو) عام 1975 في المملكة العربية السعودية لتلبية احتياجات السوق المحلي لقطاع الكهرباء والطاقة كوحدة تجميع للوحدات التوزيع ودأبت سنوات عديدة في بناء سمعة طيبة وقوية مع عملائها وفي عام 1997 أصبحت الشركة بشكلها القانوني شركة ذات مسؤولية محدودة وبدأت بالتركيز على المعايير والمواصفات العالمية .

حيث حصلت الشركة على علامة الجودة ISO 9001 منذ عام 2002 واستمرت بتحسين نظام الرقابة والجودة بالتوازي مع المواصفات والمقاييس الدولية وبناء شراكة جيدة مع المصنعين العالميين المعتمدين، مثل شركة شنايدر اليكترك واي بي بي وميتسوبيشي، لتحصل إيمفكو على جائزة افضل مصنع للوحدات الجهد المنخفض من قبل اي بي بي في عام 2009 في المنطقة الشرقية ، حيث انها مؤهلة لتصنيع لوحات الجهد المنخفض حتى 6300A من قبل شركة شنايدر اليكترك منذ عام 2005 وشركة أي بي بي منذ عام 2007 .

ونتيجة لتجربة الأعمال المختلفة في سوق المملكة لأكثر من 30 عاما واستمرارها في تحسين نظام الجودة ومواكبة المواصفات والمقاييس العالمية ، أصبحت شركة المصنع الحديث لمستلزمات الكهرباء اليوم واحدة من المصانع الرائدة في تصنيع لوحات التوزيع والمراقبة والتحكم الكهربائية للجهد المنخفض :

- لوحات الجهد المنخفض
- لوحات التحكم بالمحركات
- لوحات الجهد المنخفض المختبرة حتى 4000A طبقا للمواصفة IEC 61439
- لوحات التزامن للمولدات
- لوحات نقل الطاقة الأوتوماتيكي
- لوحات تحسين معامل القدرة
- محطات تحويل الجهد
- حوامل لوحات كهربائية
- لوحات تحكم
- لوحات إنارة

حيث تبلغ مساحة المصنع حاليا 15000 متر مربع بمختلف الأقسام والمرافق من صالات إنتاج ومكاتب إدارية ومستودعات ومختبر مجهز بأحدث أجهزة الاختبارات ويقع المصنع في المدينة الصناعية الثانية بالدمام ، وتدار إيمفكو بطاقم مهني مؤهل وذو خبرة عالية، ولقد حصل المصنع على علامة الجودة من قبل الهيئة السعودية للمواصفات والمقاييس (SASO) و كذلك إجازة الاختبار طبقا لمواصفات (UL) (Underwriter Laboratories)، والمواصفات العالمية IEC للجهد المنخفض IEC 61439 ومن أرقى المختبرات الأوروبية المعتمدة .



INTRODUCTION

Electrical Accessories Modern Factory Company (EAMFCO), was Established in 1975 in Kingdom of Saudi Arabia to meet the local market needs for electricity and energy sector as a manufacturing unit for distribution and control switch boards and continued for many years to build good reputation with its customers. In 1997, the company became legally Limited Liability Company (LLC).

The company has been awarded ISO 9001 quality mark since 2002 then continued to improve quality control system in line with the international standards and specifications, over the years EAMFCO build good partnership with other international manufacturers such as Schneider Electric – ABB – Mitsubishi also EAMFCO. Has the best low voltage panel manufacturer award from ABB Co. in 2009 in Eastern Region.

EAMFCO is an authorized panel builder to assemble, test & supply low voltage distribution switch boards and motor control centers up to 6300A by Schneider Electric since 2005 and by ABB since 2007.

As a result of the experiment in various tasks in the Kingdom's market for more than 30 years and continuing to improve the quality system and comply with international standards & specifications, EAMFCO is considered as one of the leading factories in manufacturing, assemble of the following:

- LOW VOLTAGE SWITCH BOARDS
- LOW VOLTAGE MOTOR CONTROL CENTER (MCC)
- LOW VOLTAGE PANEL BOARD
- TYPE TESTED PANEL
- GENERATOR SYNCHRONIZATION PANELS
- AUTOMATIC TRANSFERS SWITCHES (ATS)
- AUTOMATIC POWER FACTOR CORRECTION PANEL (APFC)
- PACKAGE & UNIT SUBSTATION
- FINAL DISTRIBUTION BOARD
- SWITCH RACKS
- CONTROL PANEL

The factory is located in Dammam, 2nd Industrial City, occupies 15000 square meters in various sections and facilities of production halls, administrative offices, warehouses and a laboratory equipped with the latest testing equipment, all manage by a highly qualified and experienced professional team.

EAMFCO accredited license of the quality mark (SASO) from Saudi Standards, Metrology and Quality Organization as well as fully type tested switch board up to 4000A, 4p, form 4b, 65ka as IEC 61439-1 (ed.2) : IEC 61439-2(ed.2) from UL (Underwriter Laboratories) and other various reputed laboratories.



EAMFCO PRODUCT



PROJECT: STINGRAY DATA CENTRE



Low Voltage Switch Board

Low Voltage switch boards cover a wide range of switch boards for various purposes. The switch boards are suited for the demanding needs of industries, power plants, and the energy of utilities and various buildings. EAMFCO Low Voltage switch boards are engineered and manufactured in accordance to the customer's requirements. In EAMFCO we pay special attention to safety, reliability, ease of installation and usability.

EAMFCO switch boards are manufactured with normal ratings, up to 6300A, with installed feeder sections and bus-coupler arrangements also at your disposal. Alongside that, Bus duct arrangements to transformers or interval panel sections can also be fabricated.



- Full freedom of choice in the selection of electrical equipment with regard to type and manufacturer of breakers for fixed, and with drawable versions.
- EAMFCO switch board designed in accordance to IEC61439
- Degree of protection: IP 43, IP 55, IP 65
- Segregation level: up to form 4B is also available
- 99.99% tinned copper purity bus bar
- Option of RAL 7032 colors finish or your choice of finish
- Rated voltage 690VAC
- Rated frequency 50/60 Hz
- Rated current up to 6300A





Motor Control Center (MCC)

Assisted by the proficient EAMFCO Team members, a range of quality motor control center (MCC) panels are also manufactured by us. These are made of Premium grade components to ensure optimum performance.

We have designed and fabricated these systems as per the advanced technologies and modular construction with flexible bus designs. This provides the system with easy construction, installation, and operability.

Different kinds of starters are used, such as the automatic star delta, the direction-liner, the soft starter, variable frequency drives and others.

- *Constructed with individual motor starter sections up to Form 4b*
- *Connected from the top, the bottom or the side of the panel*
- *Manufactured with a Cable connecting compartment*
- *Ensured high personnel safety*
- *Completely free option of selection of electrical components*
- *Free choice regarding height, width and depth*
- *Both front and rear side accessibility option*



Our Low Voltage Panel Board is design with the experience gained from installation contracts kept in mind. This results in safety assurance concerning the operating personnel, safety of the equipment, ease of maintenance, installation and commissioning.

The design incorporates a series of safety and convenience features, which meet the requirements of international standards along with compliance to the local standards and requirements. We offer a wide range of power distribution panels that are used to distribute direct current power from one supply to other devices, with their main task in the power distribution panel being to monitor and protect the systems.

- Custom Design
- Bus bar rating up to 4000A
- Cubicle type compartmentalized construction
- Free standing, floor mounting
- Extendable on both sides
- Cable entry from top or bottom
- Up to form-4 construction
- Front and Rear Access
- Single-Double Bus bar System
- Auto Source change over
- PLC Logic for source change over
- Distribution panels suitable for outdoor installations



Low Voltage Panel Board



Type Tested Panel



A range of low voltage type tested switch boards are designed and assembled by EAMFCO to suit the client's requirements.

EAMFCO also manufactures a range of partially and fully type-tested Low Voltage panels in accordance to market-leading modular construction systems such as ABB System Pro E, ABB System Pro Energy and SENPlus, in order to accommodate all your requirements.



EAMFCO manufactures main and sub-main distribution boards with ratings up to 6300A in varying forms of separation from form2 to form4.

All EAMFCO switch board assemblies comply with the IEC 61439 standard.





Generator Synchronization Panel



Synchronization panels are mainly designed and used to meet power system requirements. These panels function both manually and with an automatic synchronizing function for one or more generators or breakers.

They are widely used in synchronizing generators and offering multiplex solutions.

Our high quality range of DG synchronizing panels is available with capacities that reaches 10000 A, and are fabricated by our engineers using premium quality electrical components including copper bus bar, insulations, wires/cable, PVC channels, transformers, meters and switches.





Automatic Transfer Switch

Automatic transfer switches are used to automatically change over from the main electrical supply to stand-by generators or generate on failure of the main supply.

When the main supply is restored, the system automatically changes back and stops the generator.

The stand-by generator will eventually be shut down after a short cooling down period.

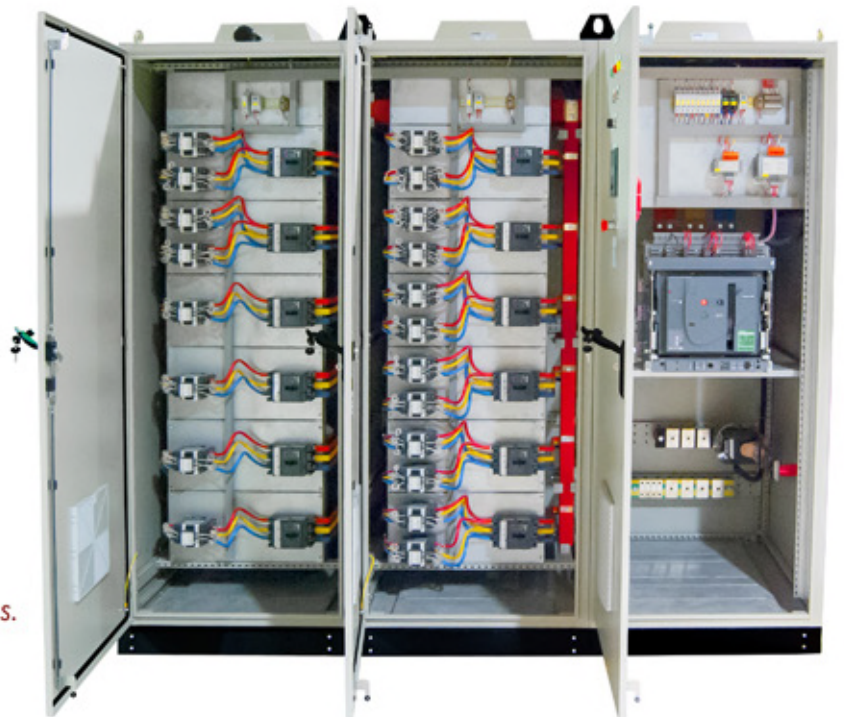
These panels are provided with mechanically or electrically interlocked pole contactors or MCCB.

- Operated both automatically and manually.
- Employ a Breaker closing time delay instilled in order to avoid current and voltage surges.
- Employ automated sensing for:
 - Under voltage
 - Phase failure
 - Phase sequence
- Instilled with Generator start/stop commands
- And Indicate:
 - Incoming voltage
 - Engine running/faulty conditions
 - MCCB On/Trip conditions
- Engine tests run position for routine test of engines.
- Status signals for remote indications.



Automatic Power Factor Correction Panel (APFC)

- Operated both automatically and manually.
- Employ a Breaker closing time delay instilled in order to avoid current and voltage surges.
- Employ automated sensing for:
 - Under voltage
 - Phase failure
 - Phase sequence
- Instilled with Generator start/stop commands
- And Indicate:
 - Incoming voltage
 - Engine running/faulty conditions
 - MCCB On/Trip conditions
- Engine tests run position for routine test of engines.
- Status signals for remote indications.





Package & Unit Substation

Package Substations are all factory assembled and tested. They are designed and manufactured in order to satisfy the customer's specific requirements. Their design engenders a high level of flexibility that covers a wide range of applications. The package substation is a combination of the Ring Main unit, The Transformer and The Low-Voltage panel.

A unit substation is a combination of a Transformer and a Low Voltage panel. These substations are used for effective electrical power distribution in medium voltage to low voltage distribution systems.



- Operated both automatically and manually.
- Employ a Breaker closing time delay installed in order to avoid current and voltage surges.
- Employ automated sensing for:
 - Under voltage
 - Phase failure
 - Phase sequence
- Installed with Generator start/stop commands
- And Indicate:
 - Incoming voltage
 - Engine running/faulty conditions
 - MCCB On/Trip conditions
- Engine tests run position for routine test of engines.
- Status signals for remote indications.

Final Distribution Board

Our range of lighting panels and power distribution panels successfully serve the purpose of distributing power for the lighting system of panels.

These power distribution panels are manufactured by our team of diligent professionals who have years of experience, furthermore, these panels are quality tested in accordance to precisely defined parameters before being delivered to our clients.

- *EAMFCO Custom- built distribution boards are available in range from 100A to 400A, 415/240/120VAC*
- *Available from 6 way to 72 way*
- *RCD (Residual-Current Devices) or RCBO*
- *(Residual Current Breakers with over current protection) can also be installed.*
- *Protection Degree: IP 42, IP 55, IP 65*
- *Manufactured with flush and surface mounting*
- *Finished with polyester epoxy powder paint RAL 7032 (Other colors available on request)*



EAMFCO is capable of designing and manufacturing specialized switch racks, suitable for nearly all applications. The switch racks are produced appertaining to contractors wiring-diagrams and schematics.

Bus bar enclosures, made of high quality materials may be adjusted with the switch racks to ensure durability and endurance of the installation.

- *Dual sided switch racks provide complete motor control centered in the integrated package.*
- *Outdoors and indoors.*
- *In damp, wet or corrosive locations such as sewage treatment plants, petroleum refineries, pipe lines and chemical and petrochemical plants.*
- *All switch racks are completely wired and factory assembled.*
- *EAMFCO specializes in manufacturing custom built racks to accommodate your exact requirements.*



Switch Rack





Control Panel



We are one of the leading manufacturers and suppliers of a wide range of electrical Control Panel Boards.

Our range offers changeover panels, relay panels, PLC Panels, HVAC panels, marshalling control panels, and DDC panels.

We offer high performance control panels that are capable of giving higher output and consuming less power, which are all manufactured from high quality raw components. These control panels



EAMFCO WALL MOUNTING ENCLOSURES

www.eamfco.com

**STAINLESS STEEL - 316L (SEC Series) /
ALUZINC (AEC Series)**



SCAN CATALOGUE

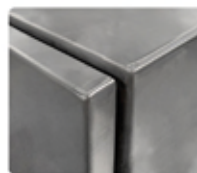


STAINLESS STEEL - 316L (SEC Series)

SPECIFICATIONS

- Made of high quality Stainless steel 316L up to 2mm
- Degree of protection up to IP66
- Welded studs on the back for direct fixing of mounting plate or other accessories
- Standard mounting plate made of Aluzinc or Stainless steel up to 2mm thickness with holes for strips
- Concealed and easily removable hinges allowing over 120° door opening
- Hardware and accessories made of stainless steel
- CNC Machine formed polyurethane gasket for full water tightness
- Complies with IEC 60529
- Available in all sizes (on request)

THE FINISH



BRUSH FINISH

For additional polishing process which offers more efficient characteristics against polluting elements



Polyurethane foamed gasket ensuring full watertightness



Back with 4 welded studs for fixing of mounting plate and depth adjustable supports. 4 drilling for direct wall fixing or through brackets

APPLICATION

Designed to protect electrical and electronic control components and instruments in typical industrial environments. Enclosure protects enclosed equipments from dust, dirt, oil and dripping water, these enclosures are used in machine tool applications for housing motor starters, drives, contactors, PLC's as well as a wide variety of other electrical and electronic equipment found in different industries.



ALUZINC (AEC Series)

SPECIFICATIONS

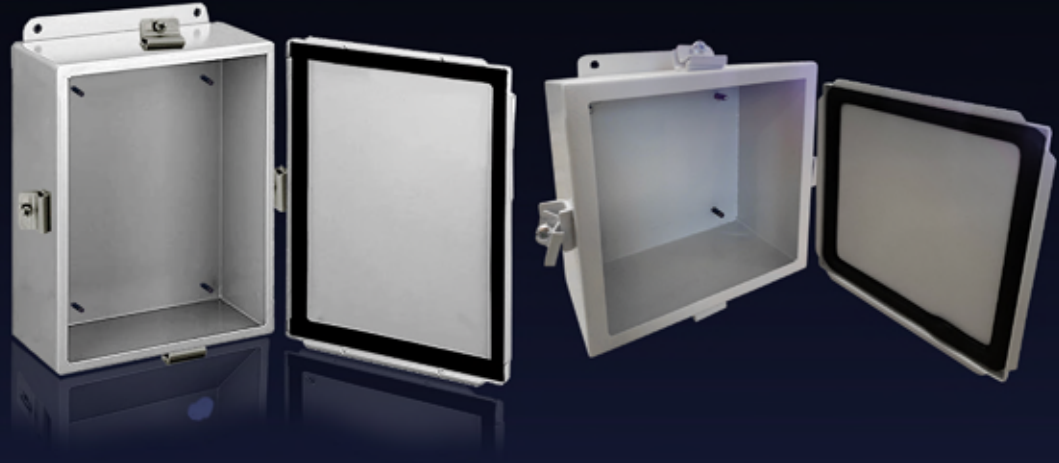
- Made of high quality Aluzinc up to 2mm
- Degree of protection up to IP65
- Matt-finish polyester powder coated in RAL-7032 Pebble Grey or RAL-7035 Light Grey.
- Welded studs on the back for direct fixing of mounting plate or other accessories
- Standard mounting plate made of Aluzinc up to 2mm thickness with holes for strips
- Concealed and easily removable hinges allowing over 120° door opening
- CNC Machine formed polyurethane gasket for full water tightness
- Complies with IEC 60529
- Available in all sizes (on request)

EAMFCO METAL / STAINLESS STEEL TYPE 4X/IP66 ENCLOSURES

**STAINLESS STEEL - 316L (SSX Series) /
ALUZINC (CCX Series)**



SCAN CATALOGUE



APPLICATION

Provides unmatched protection for housing electrical components in highly corrosive environments. This enclosure is used in indoor and outdoor settings that are frequently wet or have constant exposure to water, other liquids, or contaminants

SPECIFICATIONS

- Made of high quality AluZinc or Stainless steel sheet 316L of thickness up to 2 mm
- Degree of protection up to IP66/NEMA-4X
- Matt-finish polyester powder coated in RAL-7032 Pebble Grey or RAL 7035 Light Grey or high polished stainless steel
- Standard mounting plate made of AluZinc or Stainless steel sheet of 2 mm thickness with holes for strips
- CNC machine formed polyurethane gasket for reliable sealing
- Easy door removal by opening and lifting
- Exterior hardware matches enclosure material
- 1/4 Turn camlock door closing mechanism
- Mounting Brackets
- Complies with IEC 60529/62208 standards
- Complies with CE standards
- Available in all sizes on request.

CNC MACHINE FORMED
GASKET ON DOOR ENSURES
BETTER SEALING



MATT-FINISH POLYESTER
POWDER COATED IN RAL
7032 or 7035 OR SMOOTH
POLISHED S/S

INDUSTRY STANDARDS
Type NEMA-4X, IP66

FINISHES

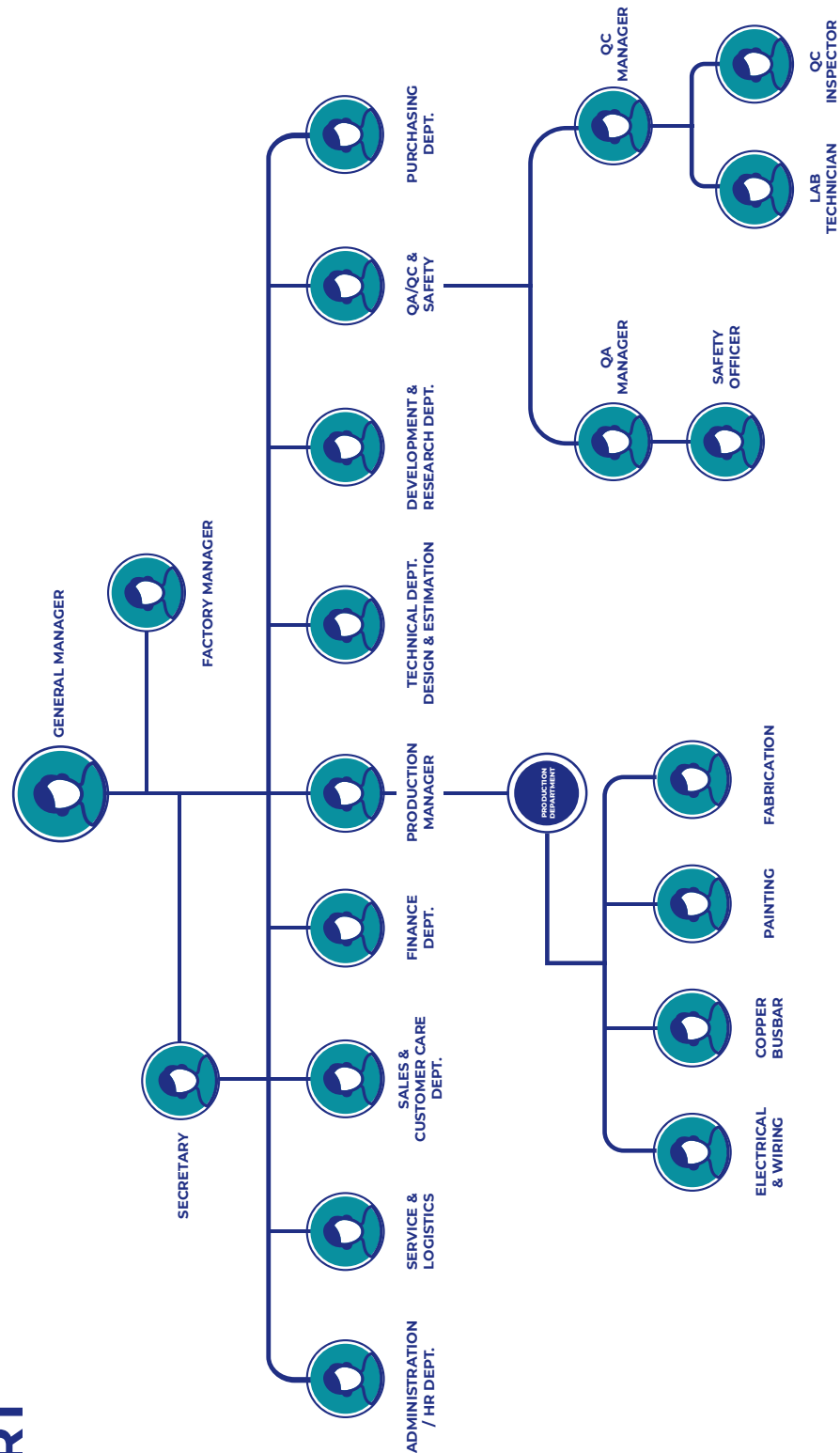
- Protective painting on Aluzinc Steel (**CCX Series**) sheet to protect against external pollution and projections of metal particles.
- Stainless steel (**SSX Series**) Brush finish for additional polishing process which offers more efficient characteristics against polluting elements.



Distribution - Lighting - Control Panel Boards - Substation

شركة المصنع الحديث لمستلزمات الكهرباء
Electrical A. Modern Factory Co.

ORGANIZATIONAL CHART

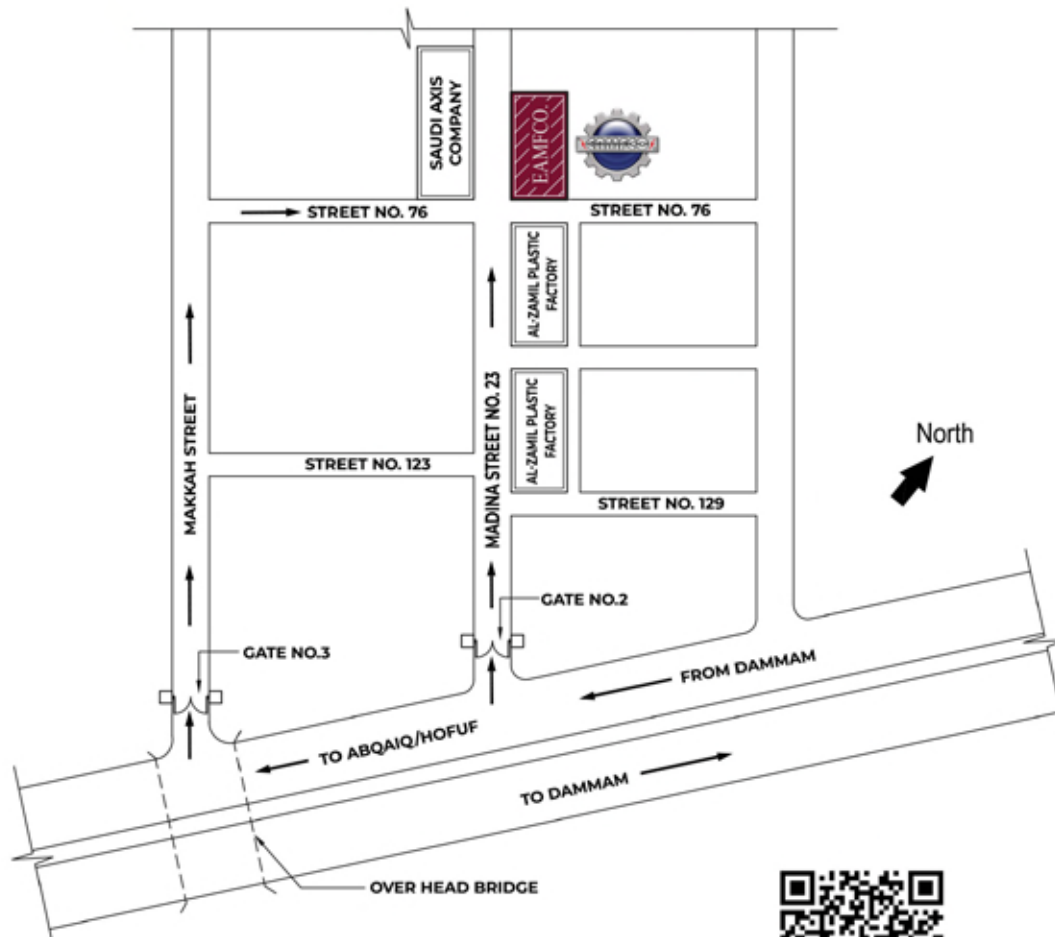




LOCATION & MAP

TELEPHONE NO. 8123463 (5 LINES)

FAX NO. 8123467



LOCATION MAP

GEO LOCATION: 26°15'30.6"N 49°59'17.1"E



ISO 9001:2015 & TYPE TESTED CERTIFICATES



Certificate

Management System as per ISO 9001 : 2015

The Certification Body FAHSS hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

Electrical A Modern Factory Co. (EAMFCO)

Building no 7387 Al Madinah Al Munawarah St,
Second Industrial City, P.O. Box 422
Dammam, Kingdom of Saudi Arabia.



operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed through periodic surveillance audits for conformity within the validity of the certificate

Scope

Manufacturing & Marketing of Panel Board (Distribution, Lighting & Control), Substation, Street lighting Poles & Steel Fabrication

Certificate Registration No. SAAC 01 2600037
Report No. 867000548

Valid From 04-06-2026
Valid Until 22-05-2029
Initial Certification 2002
Last Certificate Validity 22-05-2026
Recertification Audit Date 26-04-2026

M. Moushah

Certification Body
Fahss

Dammam, 04-06-2026

NATIONAL INSPECTION & TECHNICAL TESTING COMPANY
P. O. Box 3998, Dammam 31481, Kingdom of Saudi Arabia

Tel: +966 (13) 840-8333
email: info@fahss.com

www.fahss.com



UL TYPE EXAMINATION CERTIFICATE

Certificate No.	UL TEC-00588
Page	1/1
Date of Issue	2017-07-17
Issued to	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street, P. O. Box 422 , Dammam, 31411 KSA , Saudi Arabia
Manufacturer	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street, P. O. Box 422 , Dammam, 31411 KSA , Saudi Arabia
Manufacturing site/location	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street, P. O. Box 422 , Dammam, 31411 KSA , Saudi Arabia
Product Sample Description	3600A Low Voltage Power Switchgear and Controlgear Assembly, comprising of one three-phase and neutral extendable horizontal and a vertical copper busbar system, one incoming 4-pole withdrawable ACB unit, two outgoing 4-pole withdrawable ACB units, two outgoing MCCB units, and a protective circuit. The Assembly is suitable for indoor use with metallic enclosure. Main horizontal busbar rating : 3800A/3610A*
Designation	MDB-4000A
Ratings	Rated voltage (U_n) : 400 V Rated current of the ASSEMBLY (I_{nA}) : 3600A/3420A* Rated frequency (f_n) : 50 / 60 # Hz Ambient Temperature : 35°C IP rating : IP 43 Refer Type Examination summary for other details (4786826948-A-S)
Product Sample Tested and found in compliance with Standard(s)	IEC 61439-1(ed.2); IEC 61439-2(ed.2)
Test Report Nos.	4786826948-A issued on 2017-07-03
Additional information	* Rated current with 60Hz # All the tests performed at 50Hz
Certification Manager Jan-Erik Storgaard	This is to certify that the sample(s) of the Product described herein has been investigated and found to have been in compliance with the Standard(s) indicated on this Certificate, in accordance with the UL Type Examination Certificate Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/Manufacturer are solely and fully responsible for any declaration of ongoing conformity of all products to all applicable Standard(s), specifications or requirements. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.
Certification Body	UL International Demko A/S, Borupvang 5A, DK-2750 Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@ul.com www.ul-europe.com



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

CB TEST CERTIFICATE

Product	Low voltage switchgear and controlgear assembly
Name and address of the applicant	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street P.O.Box 422 Dammam, 31411 KSA Saudi Arabia
Name and address of the manufacturer	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street P.O.Box 422 Dammam, 31411 KSA Saudi Arabia
Name and address of the factory	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street P.O.Box 422 Dammam, 31411 KSA Saudi Arabia
Note: When more than one factory, please report on page 2	☐ Additional Information on page 2
Ratings and principal characteristics	$I_{nA} = 3600 \text{ A}$, $U_n = 400/230\text{VAC}$, 3PH, 4W, 50/60Hz
Trademark (if any)	
Type of Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	MDB-4000A
Additional information (if necessary may also be reported on page 2)	☐ Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 61439-1(ed.2), IEC 61439-2(ed.2)
As shown in the Test Report Ref. No. which forms part of this Certificate	CR 2017-01059 14 issued on 2017-08-22

This CB Test Certificate is issued by the National Certification Body



- ☐ UL (US), 333 Pilington Rd IL 60062, Northbrook, USA
☒ UL (Denko), Bonapvang 5A DK-2750 Ballerup, DENMARK
☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

Date: 2017-08-23

Signature:

Jan-Erik Storgaard

For full legal entity names see www.ul.com/nbnames

Institute for International Product Safety GmbH

Prüflaboratorium Bonn
Hein-Moeller-Str. 7-11
D-53115 Bonn



Test Report

No2017-0024805

Order No 1700118

Customer UL - Underwriters Laboratories, Dubai Science Park
Al Barsha, Dubai, P.O Box 345831, United Arab Emirates

Manufacturer EAMFCO (Electrical A. Modern Factory Co.), Second Industrial City,
Al-Madina Al-Monwarah Street, P.O.Box 422, Dammam, 31411, KSA

Specimen LV - Panel 4000A

Type reference MDB-4000

Date of delivery 2017-01-06

Test Specification IEC 61439-2:2011, clauses 10.4, 10.5.2, 10.9, 10.10.2.3.5, 10.13

Tests conducted see table of content

Test results passed

Number of pages (total) 86 (1 cover sheet 73 documentation sheets 12 enclosures)

Date of issue 2017-03-31

Signature

Heribert Schorn
Technical Director



DAkkS
Deutsche
Akkreditierungsstelle
D-PL-29125-01-00

The above-mentioned test results refer to the tested specimen only. Uncertainties of measurement resulting from the measuring methods and the test equipment used have been determined and can be provided on request. No part of the present test report shall be copied or duplicated without prior written consent of the Institute for International Product Safety GmbH (I²PS).

This test report is signed electronically. For verification of signature see www.i2ps.de/en. I²PS is a conformity assessment body accredited by the DAkkS Deutsche Akkreditierungsstelle GmbH according to DIN EN ISO/IEC 17025 in the fields of Industrial low-voltage switchgear and controlgear, Assemblies, Electromagnetic Compatibility (EMC) as well as Environmental tests.

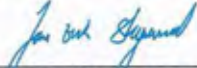
LOVAG

The Test Laboratory Bonn of the Institute for International Product Safety GmbH is listed as LOVAG Registered Laboratory under registration code D 01.

FD-101-026-008_2015-11_GB/1/1

UL TYPE EXAMINATION CERTIFICATE

Certificate No.	UL TEC-00589
Page	1/1
Date of Issue	2017-07-17
Issued to	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street, P. O. Box 422 , Dammam, 31411 KSA , Saudi Arabia
Manufacturer	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street, P. O. Box 422 , Dammam, 31411 KSA , Saudi Arabia
Manufacturing site/location	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street, P. O. Box 422 , Dammam, 31411 KSA , Saudi Arabia
Product Sample Description	2300A Low Voltage Power Switchgear and Controlgear Assembly, comprising of one three-phase and neutral extendable horizontal and one vertical copper busbar system, one incoming 4-pole withdrawable ACB unit, one outgoing 4-pole ACB unit, two MCCB units and a protective circuit. The Assembly is suitable for indoor use with metallic enclosure. Main horizontal busbar rating : 3800A/3610A*
Designation	MDB-2500A
Ratings	Rated voltage (U_n) : 400 V Rated current of the ASSEMBLY (I_{nA}) : 2300A Rated frequency (f_n) : 50/60 ^{Hz} Hz Ambient Temperature : 35°C IP rating : IP 43 Refer Type Examination summary for other details (4786826948-B-S)
Product Sample Tested and found in compliance with Standard(s)	IEC 61439-1(ed.2); IEC 61439-2(ed.2)
Test Report Nos.	4786826948-B issued on 2017-07-03
Additional information	*Current at 60Hz , # All the tests performed at 50Hz


Certification Manager
 Jan-Erik Storgaard

Certification Body

This is to certify that the sample(s) of the Product described herein has been investigated and found to have been in compliance with the Standard(s) indicated on this Certificate, in accordance with the UL Type Examination Certificate Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/Manufacturer are solely and fully responsible for any declaration of ongoing conformity of all products to all applicable Standard(s), specifications or requirements. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**UL International Demko A/S, Borupvang 5A, DK-2750
 Ballerup, Denmark, Tel. +45 44 85 65 65,
 info.dk@ul.com
 www.ul-europe.com**



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

CB TEST CERTIFICATE

Product Low voltage switchgear and controlgear assembly

Name and address of the applicant EAMFCO (Electrical A. Modern Factory Co.)
Second Industrial City - Al-Madina Al-Monwarah Street
P.O.Box 422
Dammam, 31411 KSA Saudi Arabia

Name and address of the manufacturer EAMFCO (Electrical A. Modern Factory Co.)
Second Industrial City - Al-Madina Al-Monwarah Street
P.O.Box 422
Dammam, 31411 KSA Saudi Arabia

Name and address of the factory EAMFCO (Electrical A. Modern Factory Co.)
Second Industrial City - Al-Madina Al-Monwarah Street
P.O.Box 422
Dammam, 31411 KSA Saudi Arabia
☐ Additional Information on page 2

Note: When more than one factory, please report on page 2

Ratings and principal characteristics $I_n = 2300 \text{ A}$, $U_e = 400/230 \text{ VAC}$, 3PH, 4W, 50/60Hz

Trademark (if any) 

Type of Customer's Testing Facility (CTF) Stage used

Model / Type Ref. MDB-2500A

Additional information (if necessary may also be reported on page 2) ☐ Additional Information on page 2

A sample of the product was tested and found to be in conformity with IEC 61439-1(ed.2), IEC 61439-2(ed.2)

As shown in the Test Report Ref. No. which forms part of this Certificate CR 2017-01066 10 issued on 2017-08-22

This CB Test Certificate is issued by the National Certification Body



- ☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☒ UL (Denko), Bonupvang 5A DK-2750 Ballerup, DENMARK
- ☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- ☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

Date: 2017-08-23

Signature:

For full legal entity names see www.ul.com/incbnames

Jan-Erik Storgaard

Institute for International Product Safety GmbH

Prüflaboratorium Bonn
Hein-Moeller-Str. 7-11
D-53115 Bonn

**Test Report****No2017-0033003**

Order No	1700150
Customer	UL - Underwriters Laboratories, Dubai Science Park Al Barsha, Dubai, P.O Box 345831, United Arab Emirates
Manufacturer	EAMFCO (Electrical A. Modern Factory Co.), Second Industrial City, Al-Madina Al-Monwarah Street, P.O.Box 422, Dammam, 31411, KSA
Specimen	LV - Panel 2500A
Type reference	MDB-2500A
Date of delivery	2017-01-06
Test Specification	IEC 61439-2:2011, clauses 10.4, 10.5.2, 10.9, 10.10.2.3.5, 10.13
Tests conducted	see table of content

Test results passed

Number of pages (total) 62 (1 cover sheet 49 documentation sheets 12 enclosures)

Date of issue 2017-03-31

Signature

Heribert Schorn
Technical Director



DAKKS
Deutsche
Akkreditierungsstelle
D-PL-19125-01-00

The above-mentioned test results refer to the tested specimen only. Uncertainties of measurement resulting from the measuring methods and the test equipment used have been determined and can be provided on request. No part of the present test report shall be copied or duplicated without prior written consent of the Institute for International Product Safety GmbH (I²PS).

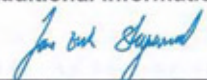
This test report is signed electronically. For verification of signature see www.i2ps.de/en. I²PS is a conformity assessment body accredited by the DAKKS Deutsche Akkreditierungsstelle GmbH according to DIN EN ISO/IEC 17025 in the fields of Industrial low-voltage switchgear and controlgear, Assemblies, Electromagnetic Compatibility (EMC) as well as Environmental tests.

LOVAG

The Test Laboratory Bonn of the Institute for International Product Safety GmbH is listed as LOVAG Registered Laboratory under registration code D 01.

FO-101-026-008_2015-11_GB;1/1

UL TYPE EXAMINATION CERTIFICATE

Certificate No.	UL TEC-00590
Page	1/1
Date of Issue	2017-07-17
Issued to	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street, P. O. Box 422 , Dammam, 31411 KSA , Saudi Arabia
Manufacturer	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street, P. O. Box 422 , Dammam, 31411 KSA , Saudi Arabia
Manufacturing site/location	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street, P. O. Box 422 , Dammam, 31411 KSA , Saudi Arabia
Product Sample Description	1500A Low Voltage Power Switchgear and Controlgear Assembly, comprising of one three-phase and neutral extendable horizontal and one vertical copper busbar system, one incoming 4-pole withdrawable ACB unit, two out going MCCB units and a protective circuit. The Assembly is suitable for indoor use with metallic enclosure. Main horizontal busbar rating : 3800A/3610A*
Designation	MDB-1600A
Ratings	Rated voltage (U_e) : 400 V Rated current of the ASSEMBLY (I_{nA}) : 1500A Rated frequency (f_n) : 50 [#] / 60 Hz Ambient Temperature : 35°C IP rating : IP 43 Refer Type Examination summary for other details (4786826948-C-S)
Product Sample Tested and found in compliance with Standard(s)	IEC 61439-1(ed.2); IEC 61439-2(ed.2)
Test Report Nos.	4786826948-C issued on 2017-07-03
Additional information	# All the tests performed at 50Hz, * current for 60Hz
 Certification Manager Jan-Erik Storgaard	This is to certify that the sample(s) of the Product described herein has been investigated and found to have been in compliance with the Standard(s) indicated on this Certificate, in accordance with the UL Type Examination Certificate Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/ Manufacturer are solely and fully responsible for any declaration of ongoing conformity of all products to all applicable Standard(s), specifications or requirements. The test results may not be used, in whole or in part, in any other document without UL's prior written approval. Certification Body UL International Demko A/S, Borupvang 5A, DK-2750 Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@ul.com www.ul-europe.com 

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

CB TEST CERTIFICATE

Product	Low voltage switchgear and controlgear assembly
Name and address of the applicant	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street P.O.Box 422 Dammam, 31411 KSA Saudi Arabia
Name and address of the manufacturer	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street P.O.Box 422 Dammam, 31411 KSA Saudi Arabia
Name and address of the factory	EAMFCO (Electrical A. Modern Factory Co.) Second Industrial City - Al-Madina Al-Monwarah Street P.O.Box 422 Dammam, 31411 KSA Saudi Arabia
<i>Note: When more than one factory, please report on page 2</i>	
Ratings and principal characteristics	$I_{NA} = 1500 \text{ A}$, $U_e = 400/230\text{VAC}$, 3PH, 4W, 50/60Hz
Trademark (if any)	
Type of Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	MDB-1600A
Additional information (if necessary may also be reported on page 2)	☐ Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 61439-1(ed.2), IEC 61439-2(ed.2)
As shown in the Test Report Ref. No. which forms part of this Certificate	CR 2017-01067 09 issued on 2017-08-22

This CB Test Certificate is issued by the National Certification Body



- ☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
☒ UL (Denko), Borupvang 5A DK-2750 Ballerup, DENMARK
☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/incbnames

Date: 2017-08-23

Signature:

Jan-Erik Storgaard

Institute for International Product Safety GmbH

Prüflaboratorium Bonn
Hein-Moeller-Str. 7-11
D-53115 Bonn



Test Report

No2017-0033104

Order No	1700151
Customer	UL - Underwriters Laboratories, Dubai Science Park, Al Barsha, Dubai, P.O Box 345831, United Arab Emirates
Manufacturer	EAMFCO (Electrical A. Modern Factory Co.), Second Industrial City, Al-Madina Al-Monwarah Street, P.O.Box 422, Dammam, 31411, KSA
Specimen	LV - Panel 1600A
Type reference	MDB-1600A
Date of delivery	2017-01-06
Test Specification	IEC 61439-2:2011, cls. 10.2.6, 10.3, 10.4, 10.5.2, 10.9, 10.10.2.3.5, 10.13
Tests conducted	see table of content

Test results passed

Number of pages (total) 107 (1 cover sheet 94 documentation sheets 12 enclosures)

Date of issue 2017-03-31

Signature

Heribert Schorn
Technical Director



The above-mentioned test results refer to the tested specimen only. Uncertainties of measurement resulting from the measuring methods and the test equipment used have been determined and can be provided on request. No part of the present test report shall be copied or duplicated without prior written consent of the Institute for International Product Safety GmbH (I²PS).

This test report is signed electronically. For verification of signature see www.i2ps.de/en. I²PS is a conformity assessment body accredited by the DAKKS Deutsche Akkreditierungsstelle GmbH according to DIN EN ISO/IEC 17025 in the fields of Industrial low-voltage switchgear and controlgear, Assemblies, Electromagnetic Compatibility (EMC) as well as Environmental tests.

LOVAG

The Test Laboratory Bonn of the Institute for International Product Safety GmbH is listed as LOVAG Registered Laboratory under registration code D 01.

FO-101-026-008_2015-11_GB/1/1

EAMFCO AUTHORIZED PANEL BUILDER

EAMFCO is an authorized panel builder to assemble, test & supply low voltage distribution switch boards and motor control centers up to 6300A by ABB since 2007.



As a result of the experiment in various tasks in the Kingdom's market for more than 30 years and continuing to improve the quality system and comply with international standards & specifications, EAMFCO is considered as one of the leading factories in manufacturing, assemble of the Switchgear.

CERTIFICATE

System Pro E Power

Electrical A. Modern Factory Co. (EAMFCO)

Is certified panel builder for assembling and selling type-tested low voltage distribution panel boards within the territory of the kingdom of Saudi Arabia using

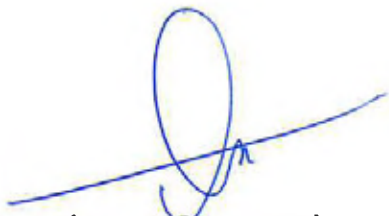
System Pro E Power up to 6300A

Any deviation on the assembly process and signed agreement will lead to the cancellation of this certificate and any consequences upon it will be charged to **Electrical A. Modern Factory Co. (EAMFCO)**

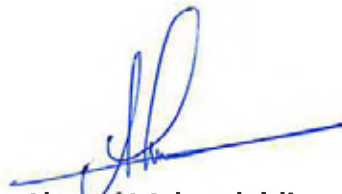
Certificate no: SPEP0226

Date of Issue: 01.01.2026

Certificate valid until: 31.12.2026



Zakareya Qawasmeh
Channel Manager Panel Builders
Electrification Business



Ahmed Waheedeldin
Product Marketing Director
Electrification – Smart Power

CERTIFICATE

Strategic Partner

ELECTRIFICATION BUSINESS

AWARDED TO

STRATEGIC PANEL BUILDER

ELECTRICAL A. MODERN FACTORY CO. (EAMFCO)

Saudi Arabia

This certification reflects the panel builder's capabilities in engineering and manufacturing ABB's low-voltage platforms in alignment with IEC global standards and ABB's guidelines. Their strategic alignment, technical proficiency, and adherence to best practices have made them a valuable contributor to the local electrification ecosystem.

Certification no: CERT-SPB-2026-SA-03

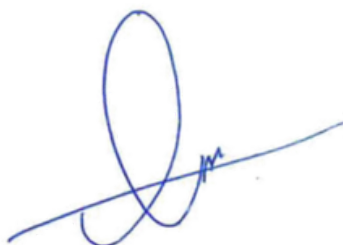
Date issued: 01.01.2026

Certification valid until: 31.12.2026



Ahmed Waheedeldin

Product Marketing Director
Smart Power & Smart Buildings
Saudi Arabia

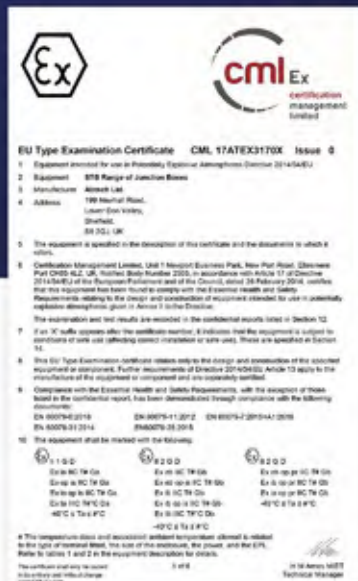


Zakareya Qawasmeh

Channel Manager – Panel Builders
Smart Power & Smart Buildings
Saudi Arabia

EAMFCO AGREEMENT

At EAMFCO we are always looking for future expansions in order to open new market fields in Saudi Arabia, for this we already signed manufacturing agreement with ABTECH to fabricate STP stainless steel enclosures for the Saudi market, this agreement is giving new high challenging level in order to follow ABTECH specifications and standards.



Product

Apparatus Type	Increased Safety Enclosure
Ingress Protection	IP66 to EN60529
Impact Rating	7 NM
Material	1.404 marine grade Stainless Steel (1.5mm) body & cover (2mm) with silicone seal
Finish	Ground
Locking mechanism	M6 slotted hex head 1.404 Stainless Steel captive fasteners
Cable Entry	Direct through body (optional gland plate)
Operational Voltage	1100 V ac/dc
Operational Current	Max 630 A
Mounting	Via recessed mounting bosses
Certification	Zone 1 & 21, Zone 2 & 22
Area Classification	Ex e (Increased Safety), Ex i (Intrinsically Safe), Ex t (Dust Protected)
Type of Protection	Ex e II 2 GD Ex e IIC T6 (-50°C ≤ Tamb ≤ 40°C) Gb Ex i II 2 GD Ex e IIC T5 (-50°C ≤ Tamb ≤ 55°C) Gb Ex tb IIIC T85 °C Db or Ex tb IIIC T100°C Db
Apparatus Coding	
Ambient Temperature	-50°C to +55°C
Certificate Number	CML 17ATEX3170X and IECEx CML 17.0086X

STB Stainless Steel Enclosures

The STB is a flexible and cost-effective hazardous area enclosure available in a range of sizes. Constructed from 304 grade Stainless Steel with a silicone gasket:

- Anti-drip lip and captive cover bolts for superior ingress protection
- Welded internal supports for rail mounting
- External brass earth stud
- Optional hinged cover, gland plates & internal component mounting plates

Option

ICH	Internal cover hinge
MF	External mounting feet
GP3	3mm thick Stainless Steel (1.404) gland plate
GP6	6mm thick Stainless Steel (1.404) gland plate
MPMS	Component mounting plate in Mild Steel (1.4301)
MPSS	Component mounting plate in Stainless Steel (1.404)

Add the required suffix to the product reference, for example: STB181850(CHMGP3)



ITP (INSPECTION AND TEST PLAN) & TEST CERTIFICATES





ELECTRICAL A. MODERN FACTORY COMPANY				
ROUTINE VERIFICATION CERTIFICATE			Format No. FM 19-04 Rev.05	
Date:	Order No.:	Tag No.:		
Customer:		Drawing No.: DP-	Item No.:	
☒	Power switchgear and controlgear assembly (PSC)			Un: VAC
	Distribution boards intended to be operated by ordinary persons (DBO)			InA: A
<u>IEC 61439</u> <u>Section</u>	<u>Test Description</u>	<u>YES</u>	<u>NO</u>	<u>N/A</u>
11.2 Degree of protection of enclosures				
	• Degree of protection as specified (Visual test)	☒		
	• All gaskets intact	☒		
	• Door is aligned (no damages)	☒		
11.3 Clearances and creepage distances				
	• Clearances and creepage distances as per standard	☒		
11.4 Protection against electric shock and integrity of protective circuits				
	• All live terminals are covered to IP2X	☒		
	• Doors are earthed	☒		
	• Earth is connected to metal frame in all sections	☒		
11.5 Incorporation of built-in components				
	• Busbar dimensions and supports are as specified	☒		
	• Busbars identification are as specified	☒		
	• Breakers ratings and settings are as specified	☒		
11.6 Internal electrical circuits & connections				
	• Loose-free connection at joints	☒		
	• Pressure washers on sides of connection	☒		
	• Torque checked of all connections/joints	☒		
11.7 Terminals for external conductors				
	• Terminals sizes and numbers are sufficient	☒		
	• Terminals identification are as specified	☒		
	• Sufficient space for incoming/outgoing cables	☒		
11.8 Mechanical operation				
	• All mechanical interlocks are working			☒
	• All manually operated components are working	☒		
	• Doors (including locks) are easily open and close	☒		
11.9 Dielectric properties				
	• The Test voltage for power switchgear and control gear assemblies with a rated insulation voltage between 300-690V AC is 2,670 V d.c. for 1 second.	Phase/Phase	≥1000	MΩ
		Phase/Neutral	≥1000	MΩ
		Phase/Earth	≥1000	MΩ
		Neutral/Earth	≥1000	MΩ
	• For assemblies with incoming protection rated up to 250 A, the verification of insulation resistance may be by measurement at a voltage of 500 V d.c. Test is satisfactory if the insulation resistance between circuits and exposed conductive parts is at least 1000 Ω/V	Insulation Resistance:		≥1000 Ω/V
11.10 Wiring, operational performance & function				
	• Busbar and power continuity test point to point	☒		
	• Earth continuity test	☒		
	• Overload and tripping functions	☒		
 				
Date	QA/QC	Elect. Engineer		

**Factory Acceptance Test (FAT)****Check List Form (LV Switchgear)****Check the conformity of the equipment with respect as per IEC 61439****Contractor Name:****Equipment Description:****Job Order No:****Ref. Drawings & Documents:****Item No:****Test Completion Date:**

Mfg.	Electrical A. Modern Factory Co.
Location	Dammam
Voltage Rating	
Control Voltage Rating	
Main Bus Current Rating	
Main Bus SC Current	

VISUAL INSPECTION

	Yes	No	N/A
1. General inspection of exterior of equipment.			
2. Check panel lights for operation, burned out or missing bulbs LED's and covers.			
3. Inspect for damaged, bent, or twisted doors and verify ground bonding.			
4. Inspect for broken instrument, relay cover glass and damaged phase indicator lights.			
5. Inspect bus for physical damage, missing insulation, connections at joints, confirm plating is acceptable.			
6. Check cleanliness of interior of cubicle.			
7. Inspect insulation, stand-off insulators, and bus separators for damage or clearance problems.			
8. Inspect for proper compartmentalization as required.			

MECHANICAL SWITCHGEAR INSPECTION

	Yes	No	N/A
1. Check control hinges and switches for free of movement and contact condition.			
2. Inspect door handles, locking bars, and mechanism.			
3. Check door interlocks for positive operation.			
4. Torque test bolted bus. (Exposed Connections only.)			
5. Check bus for support & spacing.			
6. Remove draw out breakers. Check draw-out mechanism for freedom of movement.			

Witness**Inspector****End User****Contractor****Signature & Date**



Electrical A. Modern Factory Co. – Distribution – Lighting – Control Panel Boards - Substation

MECHANICAL SWITCHGEAR INSPECTION (Continued)

	Yes	No	N/A
7. Check rails, guides, rollers, and shutter mechanism.			
8. No movement of mounted equipment.			
9. Inspect breaker and cell primary and secondary contacts and alignment.			
10. Close and trip breakers manually in the connected, test and disconnected positions.			
11. Cable supports and connections in place.			
12. Sufficient space incoming – and outgoing cables.			

ELECTRICAL SWITCHGEAR INSPECTION

	Yes	No	N/A
1. Inspect for proper grounding of equipment.			
2. Fuse ratings, contactors, overloads...etc. as specified.			
3. Dielectric test for main bus as specified.			
4. Inspect and test control and metering transformers and fuses as required.			
5. Color of wires as specified.			
6. Verify the condition of wiring & terminal connections (point to point wire check).			
7. Note and report any unmarked circuits.			
8. Verify proper operation of cell interlocks and auxiliary contact assemblies.			
9. Perform breaker inspection and tests as specified.			
10. Inspect and test meters, transducers, and relays as specified.			
11. Perform relay calibration and settings.			
12. Check relays and protective devices for positive tripping of circuit breaker.			
13. Test alarm and/or target operation.			
14. Verify proper phasing of bus.			
15. Verify all control MCB types and ratings.			
16. Verify control circuits operate according to engineering specifications.			

Busbar Insulation Resistance Test

L1- G	L2 -G	L3 -G	L1-L2	L2-L3	L3-L1

L1-N	L2-N	L3-N

Contact Resistance Test

Phase A	Phase B	Phase C

Witness	Inspector	End User	Contractor
Signature & Date			



APPROVALS



Ministry of Interior
Kingdom of Saudi Arabia



مرافق
MARAFIQ



الهيئة السعودية للمدن الصناعية ومناطق التقنية
Saudi Industrial Property Authority

سابك
SABIC



الشركة السعودية للكهرباء
Saudi Electricity Company
Empowering Energy



المؤسسة العامة للتدريب التقني والمهني
Technical and Vocational Training Corporation
مجلس التدريب التقني والمهني بمنطقة مكة المكرمة



وزارة التعليم
Ministry of Education



شركة المصنع الحديث لمستلزمات الكهرباء
ELECTRICAL A. MODERN FACTORY CO.
Distribution - Lighting - Control Panel Boards - Substation

QUALIFICATIONS

VENDOR ID



505821
Vendor ID



12209
Vendor ID



2002432
Vendor ID



10033962
Vendor ID



2000007953
Vendor ID



EP-F4527
Vendor ID



20018
Vendor ID



1002811
Vendor ID



eamfco@eamfco.com



eamfco@eamfco.com



eamfco@eamfco.com



eamfco@eamfco.com



eamfco@eamfco.com



eamfco@eamfco.com



EAMFCO Major Project Reference in Saudi Arabia

Hospitality & Tourism Projects



Fairmont Hotel



-  **End User**
Ajdan Real Estate Development Co.
-  **Location**
Al Khobar
-  **Scope**
LV Switchgear, PFC DB, MCC, & SMDB

Al Suhaim Hotel



-  **End User**
Al Suhaim Intl. Hotel
-  **Location**
Dammam
-  **Scope**
LV Switchgear & DB, MCC, SMDB

Al Ajlan Tower



-  **End User**
Saad Bin Mohammed Al-Ajlan
-  **Location**
Dammam
-  **Scope**
LV Switchboard, Control Panel, SMDB & DB



Ascott Hotel



-  **End User**
Ascott Hotels
-  **Location**
Al Khobar
-  **Scope**
LV Switchboard, Control Panel, MCC & DB

Hilton Hotel Causeway



-  **End User**
Hamad Abdulaziz Al Mousa Invt.
-  **Location**
Al Khobar
-  **Scope**
LV Switchgear & DB, SMDB

Dar Rotana Hotel



-  **End User**
Etqaan for Hospitality Management
-  **Location**
Al Khobar
-  **Scope**
LV Switchboard, Control Panel, ATS, SMDB & DB



Al Salam Hotel



End User
Crowne Plaza / Al Salam Hotel



Location
Jeddah



Scope
LV Switchboard, SMDB & DB

TA'AZEEZ Tower



End User
Ta'Azeez Real Estate Invt.



Location
Dammam



Scope
LV Switchgear & DB, MCC, SMDB

Al Tuwairqi Tower



End User
Sukoon Real Estate



Location
Al Khobar



Scope
LV Switchboard, SMDB & DB

Hospitality & Tourism Projects



Sofitel Hotel



King Abdullah Civic Center



King Fahd Conference Center



**End User**
Sofitel Hotel

**Location**
Al Khobar

**Scope**
LV Switchboard, SMDB & DB

**End User**
Eastern Municipality / AMANA

**Location**
Dammam

**Scope**
LV Switchboard, Control Panel, SMDB & DB

**End User**
Rayadah Investment Company

**Location**
Riyadh

**Scope**
LV Switchboard, Control Panel, SMDB & DB

Data Center Projects



EDGNEX Data Center by DAMAC



-  **End User**
EDGNEX
-  **Location**
Riyadh
-  **Scope**
LV Switchgear, SMBD, PFC, ATS, DBs & AHF

Quantum Switch Data Center (Stingray Data Center)



-  **End User**
QUANTUM SWITCH
-  **Location**
Damman
-  **Scope**
LV Switchgear, ATS & DBs

Quantum Switch Data Center (Shovelnose Data Center)



-  **End User**
QUANTUM SWITCH
-  **Location**
Damman
-  **Scope**
LV Switchgear, ATS & DBs

STC New Era Data Center



-  **End User**
STC Saudi Arabia
-  **Location**
Damman / Jeddah
-  **Scope**
LV Switchgear, ATS, PFC & DBs

Utility, Water & Wastewater Projects



**Sewage Treatment Plant
– Hafr Al Batin**



-  **End User**
NWC
-  **Location**
Hafar Al Batin
-  **Scope**
LV Switchgear & MCC

Sewage Treatment Plant



-  **End User**
NWC
-  **Location**
Dammam/Khobar
-  **Scope**
LV Switchgear, MCC & Synch Panels

**Shoaiba Phase-3 Water
Transmission System**



-  **End User**
SWCC
-  **Location**
Jeddah
-  **Scope**
LV Switchgear & MCC

**Eastern Province Water
Quality Improvement**



-  **End User**
Ministry of Environment,
Water and Agriculture / NWC
-  **Location**
Eastern Province
-  **Scope**
LV Motor Control Center



R.O Units and Purification
in Station 6



-  **End User**
Ministry of Environment,
Water & Agriculture / NWC
-  **Location**
Qassim
-  **Scope**
LV Switchgear & MCC

Misk City District Cooling Plant



-  **End user**
Misk Foundation
-  **Location**
Riyadh
-  **Scope**
LV Switchgear & MCC

Al Shuqaiq (3) Independent
Water Plant



-  **End user**
Saudi Water Partnership Company
-  **Location**
Al Shuqaiq
-  **Scope**
LV Switchgear & MDB

Health Projects



Al Moosa Hospital – North Tower



Al Mouwasat Hospital



Magrabi Hospital



**End User**
Al Moosa Specialist Hospital

**Location**
Al Ahsa

**Scope**
LV Switchgear, Synchronize
Panel, MCC & DBs

**End User**
Al Mouwasat Hospital

**Location**
Dammam

**Scope**
LV Switchgear, ATS, MCC
& Synchronize Panel

**End User**
Magrabi Hospitals & Centers

**Location**
Dammam

**Scope**
LV Switchgear, ATS & DBs

Food & Beverage Projects



Golden Chicken Factory



End User
Golden Chicken Farms Co.



Location
Riyadh



Scope
LV Switchgear &
DB, ATS, Synch Panel

Al Hatab Food Factory



End User
Al Hatab Bakery



Location
Riyadh



Scope
LV Switchgear, DB

Al Watania Poultry



End User
Al Watania Poultry



Location
Riyadh



Scope
LV Switchgear, , MCC, DB

Commercial / Residencial / Education Projects



Al Inma Bank - Headquarter



-  **End User**
Al Inma Bank
-  **Location**
Riyadh
-  **Scope**
LV Switchgear,
PFC DB, SMDB

NEOM III Zone 2 Housing Unit



-  **End User**
NEOM
-  **Location**
Tabuk
-  **Scope**
LV Switchgear & DB, SMDB

RC-097-C76-Catering,
Auditorium & Recreation



-  **End User**
Royal Commission
for Jubail & Yanbu
-  **Location**
Jubail
-  **Scope**
LV Switchboard, Control
Panel, MCC & DB

Al Hussan Complex



-  **End User**
Al Hussan Education &
Training Group Holding Co.
-  **Location**
Al Khobar
-  **Scope**
LV Switchgear & DB, SMDB

Commercial / Residencial / Education Projects



NITI National Industrial Training Center



-  **End User**
Training and Vocational Training Corp.
-  **Location**
Al Ahsa
-  **Scope**
LV Switchboard, & MDB, DBs

Al Immam University



-  **End User**
Al Immam University
-  **Location**
Dammam
-  **Scope**
LV Switchgear & DB, SMDB

King Fahd University of Petroleum & Minerals



-  **End User**
King Fahd University of Petroleum & Minerals
-  **Location**
Dhahran
-  **Scope**
LV Switchgear & DB, SMDB



P183 SPINE PRECAST CONCRETE FACILITY



End User
NEOM



Location
NEOM



Scope
LV Switchboard, & MDB, ATS,
Synchronize Panels, SMDB, Final DB

NPCC NEW FABRICATION YARD



End User
NPCC



Location
Ras Al Khair



Scope
LV Switchboard, SMDB &
Package Substation

BLASTING & PAINTING FACILITY – ZONE C



End User
IMI Maritime Industries



Location
Ras Al Khair



Scope
LV Switchboard, MDB, & MCC



OMS Oil Field Services Factory



-  **End User**
OMS Oil Field Services Factory
-  **Location**
Dammam
-  **Scope**
MDB, SMDB & DB

GCC Electrical Testing Laboratory



-  **End User**
GCC Testing Laboratory
-  **Location**
Dammam
-  **Scope**
LV Switchboard, & MDB

NOV Fiber Glass Factory



-  **End User**
NOV Fiber Glass Factory
-  **Location**
Dammam
-  **Scope**
LV Switchboard, & MDB



KAFD Car Park & Podium A-04



-  **End User**
KAFD
-  **Location**
Riyadh
-  **Scope**
LV Switchboard,
MDB, ATS & DB

KAFD – Parcel A-11



-  **End User**
KAFD
-  **Location**
Riyadh
-  **Scope**
LV Switchboard, Control
Panel, ATS & DB

Al Qatif Municipal Building



-  **End User**
Qatif Amana
-  **Location**
Qatif
-  **Scope**
LV Switchboard,
MDB, ATS & DB

KAP-5 Projects



-  **End User**
Ministry of Interior
-  **Location**
Riyadh
-  **Scope**
LV Switchboard, Control
Panel, ATS & DB

Factory / Lab / Logistics Projects



Ta'aheel Environmental Services Factory



End User
Ta'aheel Environmental Services Factory



Location
Jubail



Scope
MDB, MCC, SMDB & DB

Arabian Minerals & Chemicals Co Factory



End User
Arabian Minerals & Chemicals Co. LTD.



Location
Dammam



Scope
MDB, SMDB & DB

Agility Warehouse



End User
Agility Logistics Parks Co.



Location
Riyadh



Scope
LV Switchgear, ATS DB & SMDB

Governmental / Oil Gas Projects



Jubail Naval Base



SAFIRA Fabrication Facility



MODON Industrial City Development



Hawiyah Gas Plant



 End User Ministry of Defense	 End User King Salman International Complex for Maritime Industries and Services	 End User MODON	 End User Aramco
 Location Jubail	 Location Ras Alkhair	 Location Dammam	 Location Al Hawiyah
 Scope Package Substation	 Scope LV Switchboard, & MDB	 Scope LV Switchboard, & MDB, DB	 Scope LV Switchboard, & DB's



ELECTRICAL A. MODERN FACTORY CO.

Panel Boards – Distribution – Lighting – Control - Substation

- END -



SOME PROJECT PHOTOS



ABB System Pro E Power Main Distribution Board

EDGNEX DATA CENTRES BY DAMAC

DAMAC Data Center will open facilities in Riyadh and Dammam, Kingdom of Saudi Arabia (KSA), before the end of 2023. Damac is expanding the data centres from 20 MW to 55 MW. Damac announced the addition of 35 megawatts of IT capacity at LEAP 2023, bringing the total IT capacity under construction to 55 megawatts, with the initial 20 megawatts already underway.



Tel: +966 13 81234 63 | Fax: +966 13 81234 67 | Email: info@eamfco.com

www.eamfco.com



ABB System Pro E Power Main Distribution Board

STC NEIDC-P3-JED002 DATA CENTER

System pro E power is the innovative ABB's main distribution switchboard solution with rated current up to 6300A and short-circuit current up to 120kA. Designed to easily fulfill all electrical installation requirements in terms of protection degree, segregation form and electrical characteristics, according to the latest international standards and in perfect synergy with all ABB's low voltage equipment.





شركة المصنع الحديث لمستلزمات الكهرباء
Electrical A. Modern Factory Co.

Distribution - Lighting - Control Panel Boards - Substation

PROJECT: STINGRAY DATA CENTRE

Switchgear is an electrical device that distributes electricity from one electrical source to another electrical source. It is a major component used in power distribution process. It is made up of several electric panels. Each electric panel contains switches that redirect electricity. An electrical switchboard is a single large panel or can be a combination of electrical panels on which switches and other power control equipment are mounted. The main purpose of the board is to control the flow of power. It divides the main current supplied to it into several smaller chunks and distributes it to the devices. In precise, switchboards supply power to transformers, panels, and other equipment and from there power further gets distributed.

SHOVELNOSE DATA CENTER



Switchgear is an electrical device that distributes electricity from one electrical source to another electrical source. It is a major component used in power distribution process. It is made up of several electric panels. Each electric panel contains switches that redirect electricity. An electrical switchboard is a single large panel or can be a combination of electrical panels on which switches and other power control equipment are mounted. The main purpose of the board is to control the flow of power. It divides the main current supplied to it into several smaller chunks and distributes it to the devices. In precise, switchboards supply power to transformers, panels, and other equipment and from there power further gets distributed.





شركة المصنع الحديث لمستلزمات الكهرباء
Electrical A. Modern Factory Co.
Distribution - Lighting - Control Panel Boards - Substation

System pro E power

PROJECT: STC-NEIDC-P3-DAMMAM 071 DATA CENTER

System pro E power is the innovative ABB's main distribution switchboard solution with rated current up to 6300A and short-circuit current up to 120kA. Designed to easily fulfill all electrical installation requirements in terms of protection degree, segregation form and electrical characteristics, according to the latest international standards and in perfect synergy with all ABB's low voltage equipment.



www.eamfco.com

Fax: +966 13 81234 67

Tel: +966 13 81234 63

Email: info@eamfco.com



DISTRICT COOLING PROJECT AVENUE MALL

ABB System Pro E Power Motor Control Center

Motor Control Center technologies have surfaced that address evolving smart pumping system requirements. They protect pumping systems by simultaneously providing a new level of diagnostics, energy awareness and control, as well as by enhancing operator safety. Among the variety of solutions essential to the distribution of power, low-voltage MCC's are unique because they can be used for power distribution, as well as for the control and protection of motors.



Fax: +966 13 81234 67 | Tel: +966 13 81234 63 | Email: info@eamfco.com

www.eamfco.com

PROJECT: WATER IMPROVEMENT FOR EASTERN PROVINCE



Offers a high performance packaging solution for all your motor control needs, providing the advantages you need in your competitive environment. Motor control centers are in modern practice a factory assembly of several motor starters. A motor control center can include variable frequency drives, programmable controllers, and metering and it is used in all types of pumping applications. They protect pumping systems by simultaneously providing a new level of diagnostics, energy awareness and control, as well as by enhancing operator safety.



MISK CITY DISTRICT COOLING PROJECT



Motor Control Centers (MCC) for use in all types of pumping applications. They protect pumping systems by simultaneously providing a new level of diagnostics, energy awareness and control, as well as by enhancing operator safety. The components in motor control centers (MCC) offer advanced protection, efficiency and information, so that operators can provide more effective predictive maintenance.

Fax: +966 13 81234 67 | Tel: +966 13 81234 63 | Email: info@eamfco.com

www.eamfco.com

System pro E power

MAIN DISTRIBUTION SWITCHBOARD



شركة المصنع الحديث لمستلزمات الكهرباء
Electrical A. Modern Factory Co.
Distribution - Lighting - Control Panel Boards - Substation

» Project: SHOAIBA-QUAIZA MINA WATER TRANSMISSION SYSTEM



System pro E power, ABB's pioneering new solution for main distribution switchboards with rated current up to 6300A and short circuit current up to 120kA, meets all plant requirements depending on the type of installation, required degree of protection and electrical and mechanical specifications. System Pro E Power switchboard, complete solutions for main electric power distribution in infrastructures and industries, in accordance with the regulatory framework.



www.eamfco.com



Fax: +966 13 81234 67

Tel: +966 13 81234 63

Email: info@eamfco.com

KAP-5 PROJECTS



System pro E power



System pro E power is the innovative ABB's main distribution switchboard solution with rated current up to 6300A and short-circuit current up to 120kA. Designed to easily fulfill all electrical installation requirements in terms of protection degree, segregation form and electrical characteristics, according to the latest international standards and in perfect synergy with all ABB's low voltage equipment.



Tel: +966 13 81234 63 | Fax: +966 13 81234 67 | Email: info@eamfco.com

www.eamfco.com



شركة المصنع الحديث لمستلزمات الكهرباء
Electrical A. Modern Factory Co.
Distribution - Lighting - Control Panel Boards - Substation

System pro E power
MOTOR CONTROL CENTER (MCC)

Project: MISK CITY DISTRICT COOLING



Motor Control Center technologies have surfaced that address evolving smart pumping system requirements. They protect pumping systems by simultaneously providing a new level of diagnostics, energy awareness and control, as well as by enhancing operator safety. Among the variety of solutions essential to the distribution of power, low-voltage MCCs are unique because they can be used for power distribution, as well as for the control and protection of motors.



www.eamfco.com

Fax: +966 13 81234 67

Tel: +966 13 81234 63

Email: info@eamfco.com



شركة المصنع الحديث لمستلزمات الكهرباء
Electrical A. Modern Factory Co.
Distribution - Lighting - Control Panel Boards - Substation

System pro E power MAIN DISTRIBUTION SWITCHBOARD

» Project: AL SHUQAIQ (3)
INDEPENDENT WATER PLANT (IWP)



System pro E power, ABB's pioneering new solution for main distribution switchboards with rated current up to 6300A and short circuit current up to 120kA, meets all plant requirements depending on the type of installation, required degree of protection and electrical and mechanical specifications. System Pro E Power switchboard, complete solutions for main electric power distribution in infrastructures and industries, in accordance with the regulatory framework.



✓ ArTu. Everything you need simply and conveniently

MOTOR CONTROL CENTER

Motor Control Center technologies have surfaced that address evolving smart pumping system requirements. They protect pumping systems by simultaneously providing a new level of diagnostics, energy awareness and control, as well as by enhancing operator safety. Among the variety of solutions essential to the distribution of power, low-voltage MCCs are unique because they can be used for power distribution, as well as for the control and protection of motors. MCCs are traditionally the most effective way to group motor control, associated control, distribution and industrial communications equipment.

» Project: INSTALLATION OF R.O. UNITS AND PURIFICATION STATION 6 AT QASSIM



JUBAIL NAVAL BASE



Package Substations are all factory-assembled and tested. They are designed and manufactured in order to satisfy the customer's specific requirements. The package substation is a combination of the Ring Main unit, The Transformer and The Low-Voltage panel.



Tel: +966 13 81234 63 | Fax: +966 13 81234 67 | Email: info@eamfco.com

www.eamfco.com




KING FAHD PUMP STATION

Motor Control Center

Motor Control Centers (MCC) for use in all types of pumping applications. They protect pumping systems by simultaneously providing a new level of diagnostics, energy awareness and control, as well as by enhancing operator safety. The components in motor control centers (MCC) offer advanced protection, efficiency and information, so that operators can provide more effective predictive maintenance.





شركة المصنع الحديث لمستلزمات الكهرباء
Electrical A. Modern Factory Co.
Distribution - Lighting - Control Panel Boards - Substation

Lighting Substation



Project: AMANA LIGHTING AND UNIT SUBSTATION - EASTERN REGION



A unit substation is a combination of a Transformer and a Low-Voltage panel. These substations are used for effective electrical power distribution in medium voltage to low voltage distribution systems. These are widely used in areas where underground power distribution is required, such as in residential, commercial and industrial developments.

www.eamfco.com

Fax: +966 13 81234 67

Tel: +966 13 81234 63

Email: info@eamfco.com



» Project: GCC ELECTRICAL TESTING LABORATORY



MAIN DISTRIBUTION BOARD

The MDB provides reading of electrical parameters (voltage, current, frequency, etc) via digital power meter mounted on the door. Supplying energy of whole project is one of the MDB responsibilities, electricity power distribution requires protection of both equipment and human which is fully achieved and included in MDB.





» Project: RC-097-C76, CATERING, AUDITORIUM & RECREATION



MAIN DISTRIBUTION BOARD

The MDB provides reading of electrical parameters (voltage, current, frequency, etc.) via digital power meter mounted on the door. Supplying energy of whole project is one of the MDB responsibilities, electricity power distribution requires protection of both equipment and human which is fully achieved and included in MDB.





» Project: BOYS AND GIRLS ELEMENTARY SCHOOL - RC 628-C44



MAIN DISTRIBUTION BOARD

Main Distribution Board contains a circuit breaker, which is the main part of these board panels. It has the main function which includes splitting the total amount of electrical power and distributing it to a certain number of mini circuit breakers. Each of the mini breakers are connected to a specific cable that leads to an individual power outlet, machine point or light circuit. It is typically has single or multiple incoming power sources and includes main circuit breakers and residual current or earth leakage protection devices. An MDB is comprised of a free-standing enclosure, a bus bar system, MCCB's, metering and support equipment, and required current transformers.





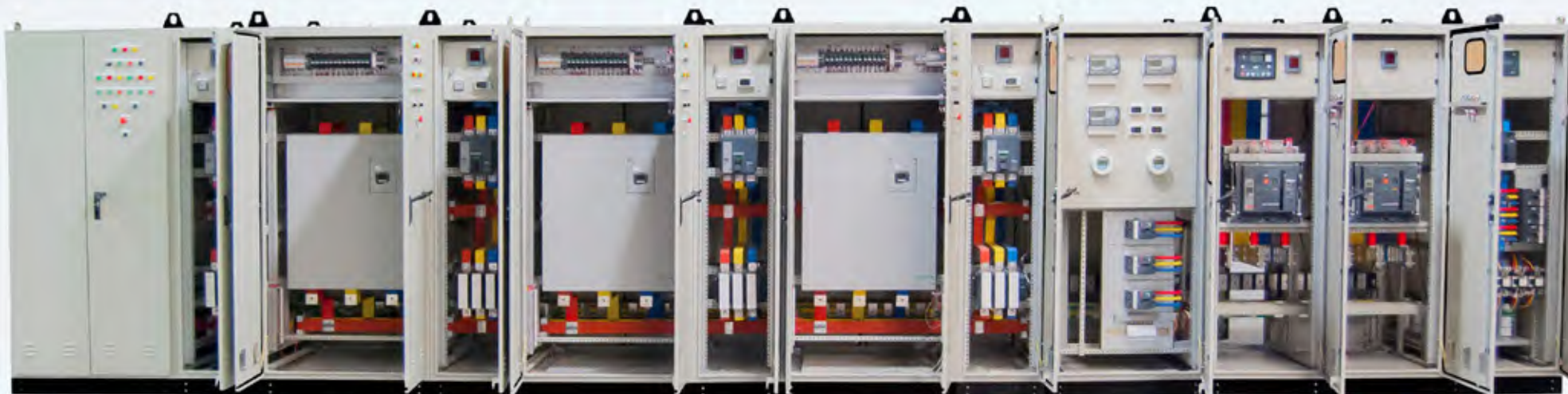
شركة المصنع الحديث لمستلزمات الكهرباء
ELECTRICAL A. MODERN FACTORY CO.

Distribution - Lighting - Control Panel Boards - Substation

MOTOR CONTROL CENTER

PROJECT:

SALINE WATER CONSERVATION STATION
DEVELOPMENT AT HAFR AL BATIN



Motor Control Center is a collection of several components to control the motors with various types of starters with the starter DOL (direct on line) starter, SDS (star delta starter) etc, busbars and control equipment that all function to control the operation of the electric motor and place these components in an integrated panel. MCC specially designed according to the different motor rating and it can be available in automatic or manual operation provisional. A control generally consists of a controller which helps to give digital signals to the MCC panel to start the motor.



Tel: +966 13 81234 63

www.facebook.com/EAMFCO

Fax: +966 13 81234 67

www.linkedin.com/in/eamfco

ELECTRICAL A. MODERN FACTORY CO.
www.eamfco.com



شركة المصنع الحديث لمستلزمات الكهرباء
ELECTRICAL A. MODERN FACTORY CO.

Distribution - Lighting - Control Panel Boards - Substation

SYNCHRONIZATION PANEL

PROJECT:
AL MOUWASAT HOSPITAL



Synchronizing Panel is for connecting the local generator to the grid. The incoming generator has to have the same phase sequence, voltage and frequency as the grid. To do this a synchronizing panel is needed, two or more generators are sets may be used parallel in order to share the total load of system. When mains fail all generators start at a time but after some time one will be on & other will be stop as per load. When load increased above 70% of the total load the 2nd generators will be start & it synchronize with first one & total load was distributed equally on that two or more generators set & This process will go on.



Tel: +966 13 81234 63

www.facebook.com/EAMFCO

Fax: +966 13 81234 67

www.linkedin.com/in/eamfco

ELECTRICAL A. MODERN FACTORY CO.
www.eamfco.com



شركة المصنع الحديث لمستلزمات الكهرباء
Electrical A. Modern Factory Co.

Distribution - Lighting - Control Panel Boards - Substation

FOR MORE PROJECT
REFERENCE CONTACT US



Electrical A. Modern Factory Co.

Address: Second Industrial City, 23 Street,
cross 76 St., Dammam, Saudi Arabia

Email: info@eamfco.com

Tel No. : +966 13 812-3463

Fax No. : +966 13 812-3467

Customer Care: 920010487

