



Avatar Electric

Company Limited

Accessories for electric solutions.



โทร. 1436 - 2540



Company

Leading the switchgear industry

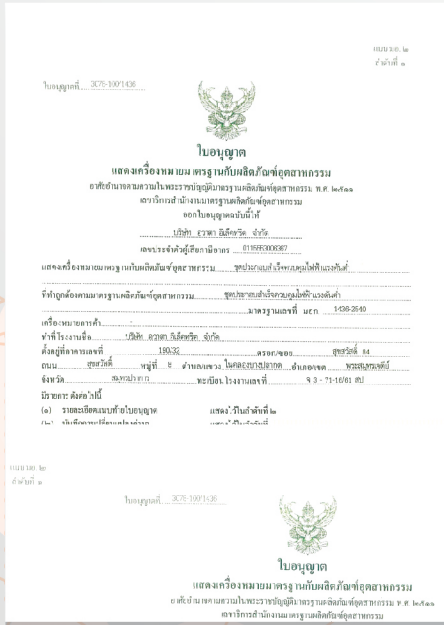


With more than several years of leading-edge experience, the Avatar brand is synonymous with quality, reliability and innovation, and our custom engineered products ensure the value added functionality is built in to every project. From small scale to multi million THB. projects, we hope you will make Avatar your first choice.

Certificate



• TIS 1436-2540



• ISO 9001 : 2015



• Avatar License Certificate



• Prisma iPM Certificate IEC 61439-1&2



MV Switchgear (Ring Main Unit) 24KV



RM6



Main characteristics

- Gas Insulated Switchgear
- Rated voltage: 12/17.5/24 kV
- Rate frequency: 50 Hz
- Tank internal arc withstand: 20 kA 1s
- Rate short-time withstand current: 16 kA 1s
- Busbar rated current: 630A
- Gas circuit breaker: 200A feeder or 630A line protection
- Switchgear classification: PM class (metallic partitioning)
- Loss of service continuity: LSC2 class
- Internal arc classification: up to A-FL 16 kA 1 sec
- Compliant with: IEC 62271-200

FBX



Main characteristics

- Gas Insulated Switchgear
- Rated voltage: 12/17.5/24 kV
- Rate frequency: 50 Hz
- Tank internal arc withstand: 25 kA 1s
- Rate short-time withstand current: 16 kA 1s
- Busbar rated current: 630A
- Vacuum circuit breaker: 200A feeder or 630A line protection
- Switchgear classification: PM class (metallic partitioning)
- Loss of service continuity: LSC2 class
- Internal arc classification: up to A-FL 16 kA 1 sec
- Compliant with: IEC 62271-200

MV Switchgear (Ring Main Unit) 36KV



Flusarc 36



Main characteristics

- Gas Insulated Switchgear
- Rated voltage: 36 kV
- Rate frequency: 50 Hz
- Tank internal arc withstand: 20 kA 1s
- Rate short-time withstand current: 16 kA 1s
- Busbar rated current: 630A
- Vacuum circuit breaker: 630A
- Switchgear classification: PM class (metallic partitioning)
- Loss of service continuity: LSC2 class
- Internal arc classification: up to A-FL 20 kA 1 sec
- Compliant with: IEC 62271-200



PIX



Main characteristics

- Air Insulated Switchgear
- Rated voltage: 24 kV
- Rate frequency: 50 Hz
- Internal arc withstand: 25 kA 1s
- Busbar rated current: 2500A
- Vacuum circuit breaker: 800A – 1250A – 2500A
- Switchgear classification: PM class (metallic partitioning)
- Loss of service continuity: LSC2B class
- Internal arc classification: up to A-FL 31.5 kA 1 sec
- Compliant with: IEC 62271-200

MCset



Main characteristics

- Air Insulated Switchgear
- Rated voltage: 24 kV
- Rate frequency: 50 Hz
- Internal arc withstand: 25 kA 1s
- Busbar rated current: 2500A
- Gas circuit breaker: 630A – 1250A – 2500A
- Switchgear classification: PM class (metallic partitioning)
- Loss of service continuity: LSC2B class
- Internal arc classification: up to A-FL 25 kA 1 sec
- Compliant with: IEC 62271-200

MV Switchgear (Compartment Switchgear)



SM6

Main characteristics

- Air Insulated Switchgear
- Rated voltage: 24 kV / 36 kV
- Rate frequency: 50 Hz
- Internal arc withstand: 16 kA 1s
- Rated current: 400A - 630A - 1250A at 24kV
- Rated current: 630A - 1250A at 36kV
- Vacuum circuit breaker or Gas circuit breaker: 630A – 1250A at 20 kA
- Switchgear classification: PI class (insulating partitioning)
- Loss of service continuity: LSC2 class
- Internal arc classification: up to A-FL 12.5 kA 1 sec SM6-24
- Internal arc classification: up to A-FL 16 kA 1 sec SM6-36
- Compliant with: IEC 62271-200



SM6

SF6 +(BY AVATAR)



Package Substations



Type tested Design:



Package Substations in focus

- Rated Voltage : 12 kV 24 kV and 36 kV
- Frequencies : 50 Hz.
- Rated withstand voltage : 28/75 kV , 50/125 kV and 70/195 kV
- Rated short-time current : 16 kA 1 sec with IAC (PEHLA)
- Protection class MV- / LV-room : IP 54
- Protection class transformer room : IP 43
- Standard : IEC 62271-202 (PEHLA TEST REPORT.)

Package Substations

Local Design: (BY AVATAR)



Package Substations in focus

- Rated Voltage : 12 kV 24kV and 36kV
- Frequencies : 50 Hz.
- Rated withstand voltage : 28/75 kV , 50/125 kV and 70/195 kV
- Rated short-time current : 16 kA 1 sec
- Protection class MV- / LV-room : IP 54
- Protection class transformer room : IP 43
- Standard : IEC 62271-202

LV Switchboards



LV Switchboards in focus

- Space conscious layouts including high density device stacking
- Modular switchboards for standard requirements
- 6300A designs available on request
- Double-rated neutral busbars
- Form 2 to Form 4 construction
- IP31 as standard with option for IP54
- Steel clad busbar chambers profiled with thermal Imaging grids
- Suitable for slab, trench or underfloor plinth mounting
- Cable extension/spreader boxes for large incomers
- Specialist protection and control systems

Whether you require modular or custom, we design and manufacture low voltage switchboards to suit all requirements. Our unique, cubicle system, designed, developed and tested in-house, uses individual, folded panels, which are welded together to form a clean lined finish with maximum rigidity and strength. The Avatar construction method further benefits from a high integrity earth bond.

All LV switchboards from Avatar are designed using 3D solid modelling to provide high levels of accuracy and build quality. This technology also offers our clients the ability to visualise device and busbar layout prior to manufacture.

Avatar busbar system - both horizontal and vertical - are IEC standard
We appreciate the space constraints of plant rooms and varying requirements for switchboard shapes.

For a fast, economical LV switchboard solution, our standard modular range is available with reduced lead times (typically 14-21 days from receipt of order).

LV Switchboards



LV Switchboard Electrical Characteristics

- Rated Insulation Voltage : 1000 VAC.
- Rated Operation Voltage : 415 VAC.
- Rated Current : upto 6300A
- Frequencies : 50 Hz.
- Rated short-time withstand Current : upto 85kA
- Form : 1, 2A, 2B, 3A, 3B
- Application : MDB, MCC, DB Indoor & Outdoor.

Prisma iPM



Solution for type tested and IEC 61439-1&2 compliant
LV Switchboard



Prisma iPM in Focus

- Rated insulation voltage U_i 1000 VAC
- Rated operation voltage 690VAC
- Rated impulse withstand voltage 12 kV
- Frequency (Hz) 50/60
- Main busbar rated current max. I_e 4000A
- Rated short-time withstand current 85kA/1s
- IP 30/31/54
- Enclosure materials sheet metal
- Painting epoxy resin powder electrostatic sprayed
- Colour RAL 7047 (enclosure) and RAL 9022 (Functional unit)

The Prisma iPM opportunity an innovative prefabricated and modular solution, unique in the market, that is safe and simple. Prisma iPM intergrates perfectly the Schneider Electric switchgear electric, mechanical and communication consistency. Buildings run perfectly. 100% of users are satisfied, feeling safe and comfortable, working efficiently, You control your costs and deadlines.

Prisma iPM

Type Tested LV. Switchboard



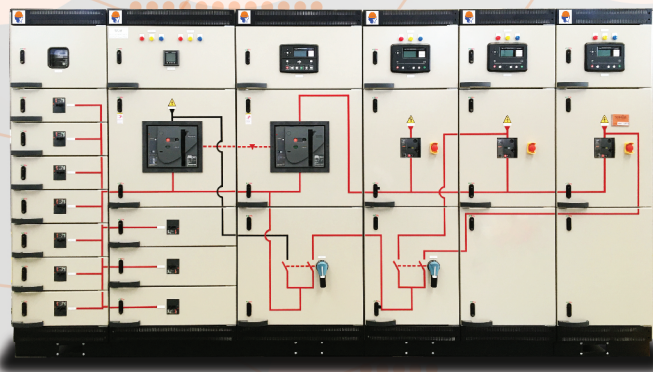
Generator Switchboards



Generator^s and their associated switchboards are a critical element of your power distribution systems despite being idle for periods of weeks and months at a time.

Avatar works in partnership with quality generator manufacturers to provide a resilient solution that won't let you down when the mains fails.

Our generator switchboards and control switching systems are of exemplary build quality only expected from Avatar. Using dedicated, in-house PLC engineers we will design control philosophies to meet your demands; from dual redundant to hot swappable industrial grade, we understand which PLC you will need.



Having manufactured generator switchboards up to 6300A, we have the capability to manufacture applications large and small. After installation, a contract with our Service division can deliver peace of mind and confidence that correct generator will switch into your system at the precise moment it is required.

Generator Switchboards in focus

- Generator switchboards up to 6300A
- Dual redundant and hot swappable PLCs
- Test Features for periodic testing
- Motorised and interlocked MCCB and ACB devices
- Switchboards can be containerised
- 24-hour emergency response from our Service division



Energy Management



Power Management

Our power management business enables clients to better control their energy consumption and manage their critical power availability. Remote energy monitoring systems introduce efficiencies that benefit operational costs, meet energy obligations and avoid costly downtime and disruption. At Avatar we offer design, implementation, testing and life cycle support of fully integrated power monitoring systems, providing you with complete overview of the energy usage and power distribution within your Business.

Monitor to manage

We can provide custom remote monitoring systems utilising Ecostruxure Power Monitoring Expert software for any of our intelligent switchgear solutions.

Proven and fully scalable to fit your needs, and with multiple user access through web based platforms, our intelligent monitoring solutions.

Our remote power management systems increase predictability by identifying Potential power related issues and reduce your energy costs.



Power Management at a glance

- Developed around the industry standard
- Power trending for usage analysis
- Identification of power quality improvements
- Ecostruxure Power Monitoring Expert remote monitoring solutions
- Integration of data into your management systems

Switchgear Modifications and Testing



AC Hipot Tester



DC Hipot Tester



Thermal Imaging
Infrared Camera



Multifunction
Tester



Earth Clamp
Meter



Primary Current
Injection Tester



Contact
Resistance Tester



Protective Relay
Tester



Insulation
Resistance Tester



Test Kit
Schneider Electric



Test Kit ABB



Test Kit
Mitsubishi

Onsite Modifications and Testing in focus

- Trained engineers
- In-house design
- Peace of mind
- Minimum disruption
- Complete service package
- Complete service offering

Planned Shutdown Service



Planned Shutdown Service in focus

- Check tightness of main power connections
- Check tightness and mechanical operation of all switching devices
- Check tightness and condition of connections and outgoing terminals
- Verify control circuit fuse continuity
- Check condition of lamps and indicators, doors and interlocks
- Full clean of pannels inside and out where safely accessible
- Full torque testing and cleaning of HV & LV Transformers and enclosures
- Insulation and continuity testing of LV Transformer
- ACB servicing by factory trained engineer
- Completion report and recommendations

The planned shutdown of switchgear equipment is key in preventative maintenance, helping to avoid costly failure and interruptions to your critical power systems.

Switchgear service from Avatar includes routine, planned maintenance as a central part of its service contracts, which are always tailored to fit your requirements. Avatar has the capability to perform small or large-scale shutdowns, including in-house provision of all required personnel and expert management throughout the shutdown.

Maintenance works will be performed with the units fully isolated, and prior to shutdown our specialist service engineers will carry out a live visual inspection. All readings are noted and each planned switchgear shutdown will be followed with a completion report highlighting any necessary actions to ensure ongoing power protection.

Project Reference Avatar Electric Company Limited



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HOSPITAL

- RAJAVITHI HOSPITAL
- CHUMPORN HOSPITAL
- UDONTHANI HOSPITAL
- HUA HIN 1 HOSPITAL
- RUAMPHAT PHISANULOK HOSPITAL

RESIDENTIAL

- HAVEN LUXE PAHONYOTHIN
- FUTURE CONDO PHUKET
- NARASIRI BANGNA, RAMA2
- PHANASON PARK VILLA PHUKET
- KANYARAT LAKEVIEW CONDOMINIUM
- RAJAPRACHA SAMAKHOM PAVILION
- CAPE SOL VILLA PHUKET
- ABSOLUTE TWIN SAND PHUKET
- CHIC CONDO 1, 2 PHUKET
- AYUTAYA CONDO
- LAKEWOOD COUNTRY CLUB

ENERGY AND INFRASTRUCTURE

- EXPRESSWAY AUTHORITY OF THAILAND
- MWA SAMSAN
- TOT BANGPLEE
- KHUNPADPENG POWER PLANT SUPANBURI
- SAHATAHI TERMINAL PHAPRADANG
- BANGSUE TRAIN STATION
- SAMUI PORT

OFFICE AND COMMERCIAL BUILDING

- THE PEAK TOWER PATTAYA
- POWERBUY
- UM TOWER
- GOVERNMENT SAVING BANK UDONTHANI
- SHOWROOM BMW CHANGWATHANA
- FOCUS AT PLOENCHIT CONDOMINIUM
- DREAM LAND CHIANGMAI
- KAD FARANG VILLAGE CHIANGMAI
- THE UP RAMA 3
- RAMYANA WATERPARK PATTAYA
- GREENERY WATER PARK KAOYAI

HOTEL

- HOLIDAY INN KRABI
- AMARI BURIRUM UNITED
- BESTWESTERN PATONG BEACH
- HOP INN HOTEL KHONKAEN /THE ERWAN GROUP
- PURE NAJOMTIEN BEACHFRONT PATTAYA
- THE ROYAL PLACE PHUKET
- SILVER BEACH PHUKET
- AVADINA HILLS PHUKET
- KEEMALA PHUKET
- ANDAKIRA HOTEL PHUKET

FOOD AND BEVERAGE

- ICHITAN
- KFC CHACHOENGSAO

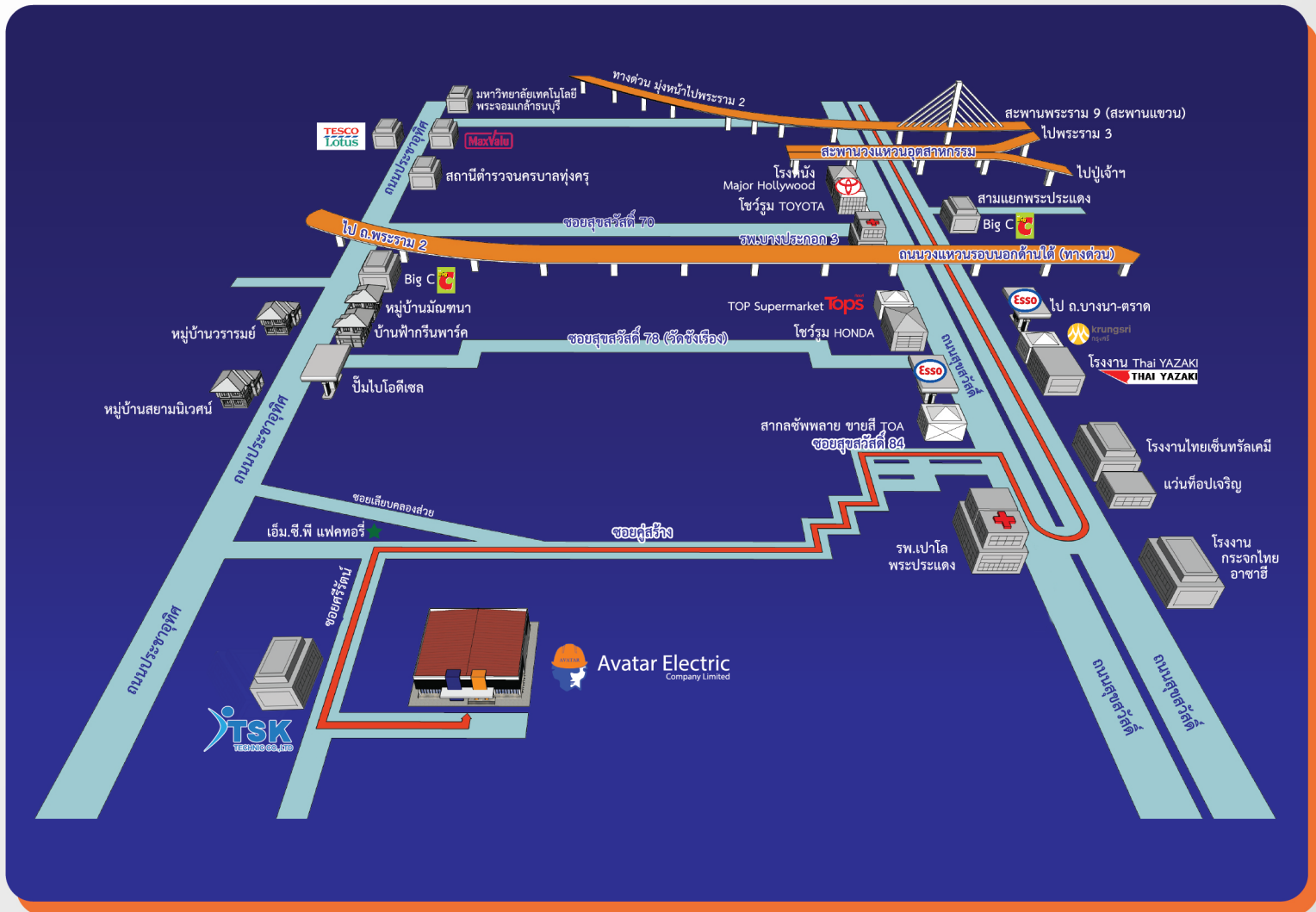
EDUCATION

- SUAN SUNADHA RAJABHAT UNIVERSITY
- PHUKET RAJABHAT UNIVERSITY
- KHONKAEN UNIVERSITY
- UTTARADIT RAJABHAT UNIVERSITY

INDUSTRY

- ALUCON CHONBURI
- BIOGAS KORAT
- KNC SAFETY GLASS
- CAL-COMP ELECTRONIC
- SAIC MOTOR-CP
- MITSUBISHI MOTOR LAMCHABANG
- P.C.S. MACHINE THAILAND
- PALM OIL SURATHANI
- PINTHONG STEEL
- ROJANA WATER TREATMENT PLANT PHASE 8
- SCG SARABURI
- TPC SARABURI
- CP BANBUNG, CP KHONKAEN
- THAI TOBACCO
- EASTERN SUGAR
- CHIYOTA GOSEI
- BETAGRO PET FOCUS LOPBURI

แผนที่บริษัท อวาตา อิเล็กทริก จำกัด



Avatar Electric
Company Limited

489 M.9 Soi Suksawat 84 Suksawat Rd., Naiklongbangplakod, Phrasamutjede, Samutprakran 10290

Tel : 0-2405-4917 Fax : 0-2405-4961 E-mail : avatar.electric@gmail.com <http://www.avatar-electric.com>