megates
Enerji

PRODUCT CATALOGUE

POWER DISTRIBUTION SYSTEMS

Bringing energy to your life.

Megates website QR code

web

www.megates.com.tr

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MANUFACTURING STRENGTH. PROJECT EXPERIENCE.

2013
Production started

8.000
m² production area

30+ years
Team experience

MEGATES ENERGY

Manufacturing of transformer substations and medium-voltage switchgear; product and system solutions for power distribution projects.

Megates Energy combines its experience in the electrical and energy sector with its manufacturing facility established in the Diyarbakır Organized Industrial Zone in 2013. Having started production in the last quarter of the same year, the company operates with project-specific product selection, technical support and custom manufacturing.

MONOBLOCK CONCRETE TRANSFORMER KIOSKS

Megates manufactured / Concrete-enclosed substations

PRODUCT PROFILE

Prefabricated concrete enclosure housing MV switchgear, transformer and LV panel in separate compartments according to the project layout. Adaptable to site layouts with single-, double- and triple-compartment options.

Compartmented layout

MV, transformer and LV areas are arranged according to requirements.

TECHNICAL DATA

Voltage	10 / 36 kV
Frequency	50 Hz
Enclosure	Prefabricated concrete
Compartment	Single / double / triple
Reference	IEC 62271-202

Equipment scope, IP rating and short-circuit withstand are confirmed according to the model and technical quotation.

LAYOUT AND MODEL OPTIONS

MBDM / MBTM product families

MBDM

Single-compartment MV layouts.

MBTM

Substation layouts assessed together with transformer and LV equipment.

Kiosk type	External dimensions (mm)	Series
255	2550 × 2550 × 3550	MBDM / MBTM
325	3250 × 2550 × 3550	MBDM / MBTM
365	3650 × 2550 × 3550	MBDM / MBTM
430	4300 × 2550 × 3550	MBDM / MBTM
535	5350 × 2550 × 3550	MBDM / MBTM
615	6150 × 2550 × 3550	MBDM / MBTM
655	6550 × 2550 × 3550	MBDM / MBTM
730	7300 × 2550 × 3550	MBDM / MBTM

Approved layout, dimension order and model code shall prevail for the order.

SHEET-METAL KIOSKS

Configured to project requirements

PRODUCT PROFILE

Metal-enclosed transformer substation solution combining MV switchgear with transformer and LV panel according to project requirements. Enclosure dimensions and internal layout are determined according to the equipment scope.

Flexible layout

Door directions, cable entries and compartment arrangement are selected according to the project.

TECHNICAL DATA

Voltage	12 / 24 / 36 kV
Enclosure	Metal enclosure
Scope	MV / transformer / LV
Dimensions	Project-specific
Reference	IEC 62271-202

Sheet thickness, paint system, IP rating and equipment scope are finalized in the technical quotation.

PREFABRICATED TRANSFORMER SUBSTATIONS

Configured to project requirements

PRODUCT PROFILE

Prefabricated concrete transformer substation adapted to project dimensions for MV distribution equipment. Larger layouts or different compartment requirements are considered together with site and logistics conditions.

Project dimensions

Equipment layout and maintenance clearances guide the sizing.

TECHNICAL DATA

Voltage	12 / 24 / 36 kV
Enclosure	Prefabricated concrete
Compartments	Project-specific
Installation	Prepared foundation
Reference	IEC 62271-202

Final dimensions, door positions, ventilation and cable entries are shown on the approved general arrangement drawing.

MOBILE TRANSFORMER SUBSTATIONS

Project-based supply and integration

PRODUCT PROFILE

Portable power substation for projects requiring temporary power, alternative supply during maintenance or site relocation. MV switchgear, transformer and LV distribution equipment can be integrated on a mobile platform.

Applications

Construction sites, mines, industry and emergency power supply applications.

TECHNICAL DATA

Voltage	12 / 24 / 36 kV
Platform	Chassis / trailer
System	MV / transformer / LV
Power	Project-specific
Dimensions / weight	According to scope

Mobile systems are evaluated within project-based supply and integration.

MODULAR MV SWITCHGEAR

Megates manufactured / ME36 family

PRODUCT PROFILE

A modular switchgear family combining incoming/outgoing, transformer protection, metering and coupling functions for distribution networks. ME12 - ME24 - ME36 types are configured according to the single-line diagram and protection requirements.

Function versatility

Load-break switch, fused, circuit-breaker and metering panels.

TECHNICAL DATA

Voltage	12 / 24 / 36 kV
Current range	630–2000 A
Short-circuit	16 / 25 kA
Product family	ME36
Reference	IEC 62271-200

Values represent the product family range. IAC, IP, withstand duration and current ratings are confirmed for the selected design.

ME36 PANEL OPTIONS

Function and layout selection

ACCORDING TO YOUR SINGLE-LINE DIAGRAM

Incoming / outgoing

Transformer protection

Metering and coupling

Model	Panel function	External dimensions (mm)
ME36 01	Load-break switch incoming / outgoing	750 × 1570 × 2250
ME36 02	Fused transformer protection	750 × 1570 × 2250
ME36 03A	Voltage metering	750 × 1570 × 2250
ME36 03B	Auxiliary services	750 × 1570 × 2250
ME36 04	Circuit-breaker incoming / outgoing	1400 × 1600 × 2250
ME36 05	Bus section / coupling	1500 × 1600 × 2250
ME36 06	Load-break switch incoming / outgoing	750 × 1600 × 2250
ME36 07	Cable connection	750 × 1570 × 2250
ME36 08	Current-voltage metering	1000 × 1600 × 2250
ME36 14	Autoproducer	1500 × 1600 × 2250

Visual shows the modular switchgear family. Codes and dimensions are based on the web model list; the approved project drawing shall prevail.

METAL-CLAD WITHDRAWABLE SWITCHGEAR

Configured to project requirements

12 / 24 / 36 kV

VOLTAGE CLASSES

Switchgear architecture for primary distribution that separates circuit-breaker, busbar, cable and control compartments with metal partitions. Withdrawable switching equipment provides operational flexibility for maintenance and equipment replacement.

Withdrawable circuit breaker

Vacuum or suitable SF6 circuit breaker is selected according to the project.

TECHNICAL DATA

Voltage	12 / 24 / 36 kV
Insulation	Air
Circuit breaker	Withdrawable type
Current / withstand	According to configuration
Reference	IEC 62271-200

LSC2B, PM and IAC classes are stated only within the verified type-test scope of the selected product.

GAS-INSULATED SWITCHGEAR

Solution selection by project and product family

GIS / RMU

SEALED GAS TANK

Compact MV solution combining busbar and switching functions in a sealed gas tank. In RMU applications, ring feed and transformer protection functions are configured according to the single-line diagram.

Compact architecture

Block or modular arrangement for distribution substations with limited space.

TECHNICAL DATA

Voltage class	12 / 24 / 36 kV
Insulation medium	SF6 gas
Construction	Block / modular
Function	LBS / protection / metering
Reference	IEC 62271-200

Voltage, current, short-time withstand, IAC and dimensions are finalized according to the selected product family.

SF6-FREE GAS-INSULATED SWITCHGEAR

Solution selection by project and product family

SF6-FREE

SF6-FREE INSULATION

MV switchgear solutions developed with insulation technologies that do not use SF6. Dry air, pure air or other insulation media are evaluated according to the selected product family and the project technical requirements.

Insulation technology

Gas composition and environmental characteristics are defined in the product documentation.

TECHNICAL DATA

Voltage	According to product family
Current / withstand	According to approved datasheet
Insulation	SF6-free
Interruption	Vacuum depending on product
Reference	IEC 62271 series

SF6-Free does not define a single gas or a fixed performance level. Exact scope is specified in the technical quotation.

LOW-VOLTAGE PANELS

Megates manufactured

400 V AC

DISTRIBUTION AND POWER FACTOR CORRECTION

LV panel solutions for electrical distribution and reactive power compensation. Main distribution, sub-distribution and custom panel arrangements are engineered according to facility loads and protection requirements.

Distribution arrangement

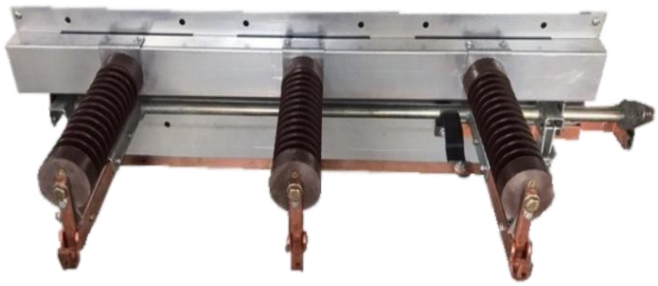
Incoming and outgoing circuits and main circuit-breaker scope are adapted to the project.

TECHNICAL DATA

Voltage	400 V AC
Current range	63–4000 A
Enclosure	IP43 / IP55
Standard color	RAL 7035
Reference	IEC 61439-1/2

Current, short-circuit performance, protection class and internal separation are verified for the proposed design.

SWITCHGEAR EQUIPMENT



Earthing switch

12 / 24 / 36 kV

Earthing function; interlocking and withstand ratings are matched to the switchgear design.

IEC 62271-102

SF6 circuit breaker

630–1250 A · 16 / 25 kA

Interrupts load and fault currents within rated limits.

IEC 62271-100

SF6 disconnector

12 / 24 / 36 kV · 630 / 1250 A

Isolates the circuit for insulation purposes. It has no fault-current interruption duty.

IEC 62271-102

SF6 load-break switch

12–36 kV · 630 A

Switches load current within rated duties. Manual or motor-operated control.

LBS / load switching

Exact ratings, operating duties and switchgear compatibility are verified against the selected equipment datasheet.

DISTRIBUTION TRANSFORMERS

Project-based product selection and supply

OIL-IMMERSED

Hermetic / conservator type

Tank construction, cooling and accessories are determined by the manufacturer series and project specification.

IEC 60076 series

DRY TYPE

Cast resin

For indoor and building applications, enclosure, ventilation and maintenance clearances are considered together.

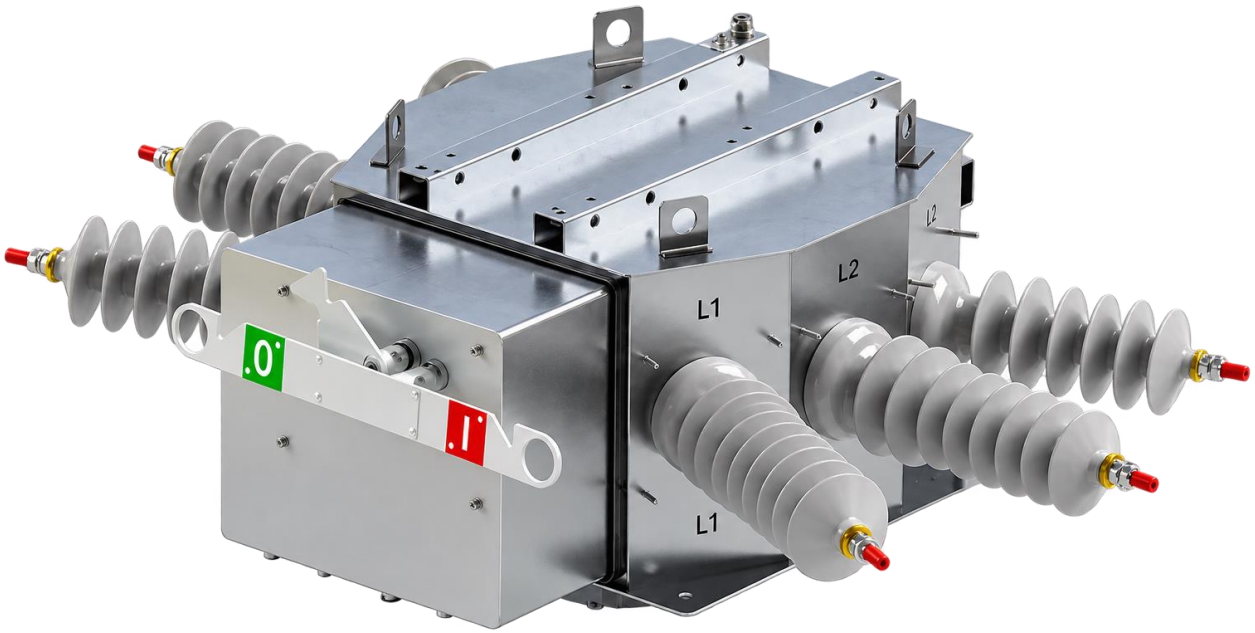
IEC 60076-11

Selection: power · voltage ratio · vector group · losses · Uk% · site conditions

Power, losses, sound and performance values are defined in the approved datasheet of the offered manufacturer.

AUTOMATIC SECTIONALIZER

Partner product / project-based supply



PRODUCT PROFILE

Works in coordination with the opening cycles of the upstream recloser or circuit breaker to isolate the faulty line section. At the end of the preset count, it opens while the line is de-energized, helping healthy sections to be re-energized.

Protection coordination

Counting and opening sequence are coordinated with the upstream device.

TECHNICAL DATA

Shown class	36 kV / 630 A
Withstand class	12,5 kA*
Opening instant	De-energized interval
Mounting	Overhead line / pole
Reference	IEEE C37.63

*Not an interrupting capacity. Withstand type and duration are confirmed in the manufacturer datasheet. Fault current is interrupted by the upstream device.

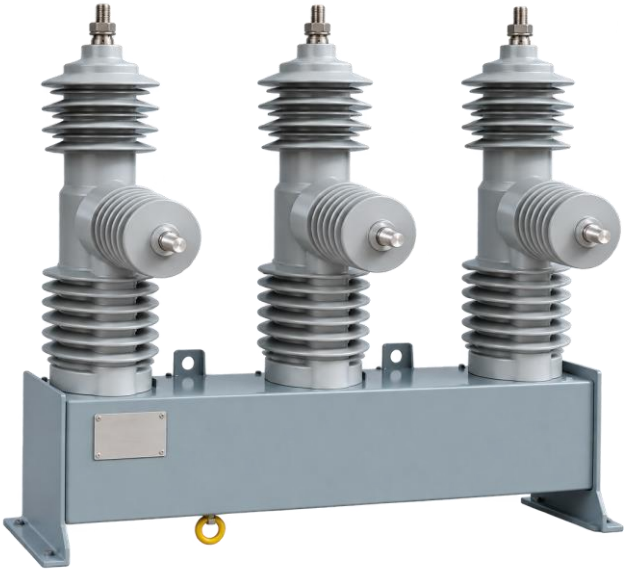
AUTOMATIC RECLOSER

Partner product / project-based supply

RECLOSER

INTERRUPTION AND RECLOSING

Protection device that interrupts fault current in overhead MV networks and performs programmed reclosing cycles. Supports re-energization of the line after temporary faults.



Protection functions

Overcurrent, fault recording and reclosing settings depend on the control unit.

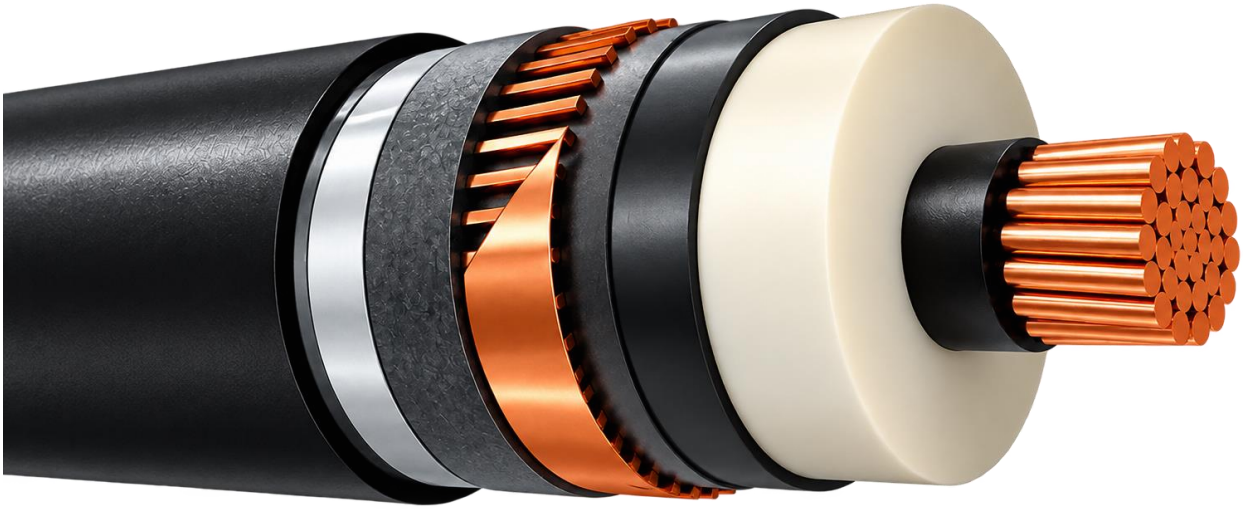
TECHNICAL DATA

Voltage / current	According to selected product
Interrupting capacity	According to manufacturer datasheet
Reclosing	Programmable
Control	Electronic unit
Reference	IEC 62271-111

The 38 kV scope of IEC 62271-111 should not be interpreted as the rated voltage of the offered product.

XLPE MEDIUM-VOLTAGE CABLES

Partner product / project-based supply



PRODUCT PROFILE

XLPE-insulated MV cables for transformer substations and fixed power-distribution connections. Cross-section, conductor, screen, armour and outer sheath are selected together with installation conditions.

Construction

Copper or aluminium, single-core or three-core options.

TECHNICAL DATA

Voltage examples	6/10 and 8.7/15 kV
Other classes	12/20, 18/30 kV
Max. system voltage	Up to Um 36 kV
Insulation	XLPE
Reference	IEC 60502-2

Current-carrying capacity, cross-section and cable code are finalized by project-specific calculation and manufacturer datasheet.

CABLE CONNECTION ACCESSORIES

Project-based selection and supply

Indoor termination

Indoor connections

Outdoor termination

Outdoor connections

L-type connection

Elbow-type screened connector

T-type connection

T-body screened connector

COMPATIBLE CONNECTION

Cable voltage, cross-section and insulation diameter are matched with screen construction, bushing interface and environmental conditions.

IEC 60502-4. Lugs and mechanical connectors are selected according to conductor material.

TECHNICAL DOCUMENTATION

Product group	Technical reference
Prefabricated transformer substation	IEC 62271-202
Metal-enclosed MV switchgear	IEC 62271-200
Circuit breaker	IEC 62271-100
Disconnector / earthing switch	IEC 62271-102
LV panel	IEC 61439-1/2
Distribution transformer	IEC 60076 series
MV cable / accessories	IEC 60502-2 / IEC 60502-4

PROJECT FILE

Standard references define the framework for product selection and verification. Document scope is evaluated together with the offered model and configuration.

01 Approved technical data and equipment list

02 Layout, single-line and connection drawings

03 Relevant type and routine test records

04 Conformity documents for the model

05 Installation, operation and maintenance documents

Standard edition, client specification and document validity are finalized at the quotation stage.

PROJECT INFORMATION FOR QUOTATION

01

Electrical data

System voltage and frequency, rated current, short-circuit level and single-line diagram.

02

Product and quantity

Kiosk, MV switchgear, LV panel, transformer, cable or equipment type and quantity of each item.

03

Protection and control

Relay functions, protection arrangement, auxiliary supply and automation scope.

04

Site and installation

Indoor/outdoor environment, altitude, temperature, installation area, cable entries and transport access.

05

Standards and documents

Client specification, target country requirements, tests and requested documents.

06

Delivery

Delivery point, target date, shipping constraints and order scope.

SHARE YOUR PROJECT FILE

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