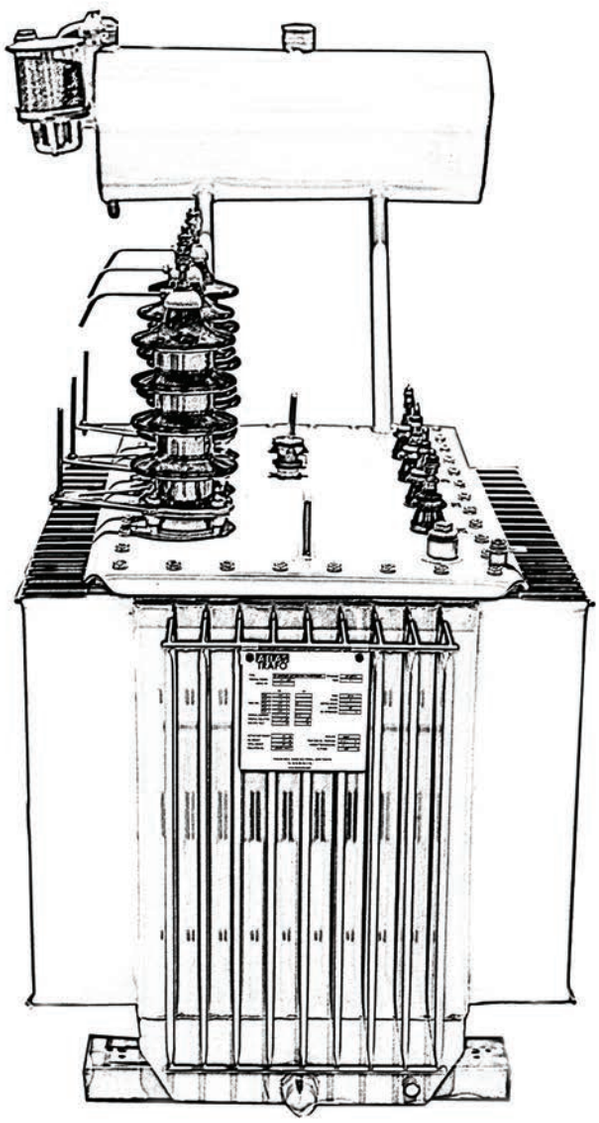
ATLAS
TRAFO



we do transformers

simple
durable
reasonable
what you need

ATLAS TRAFO

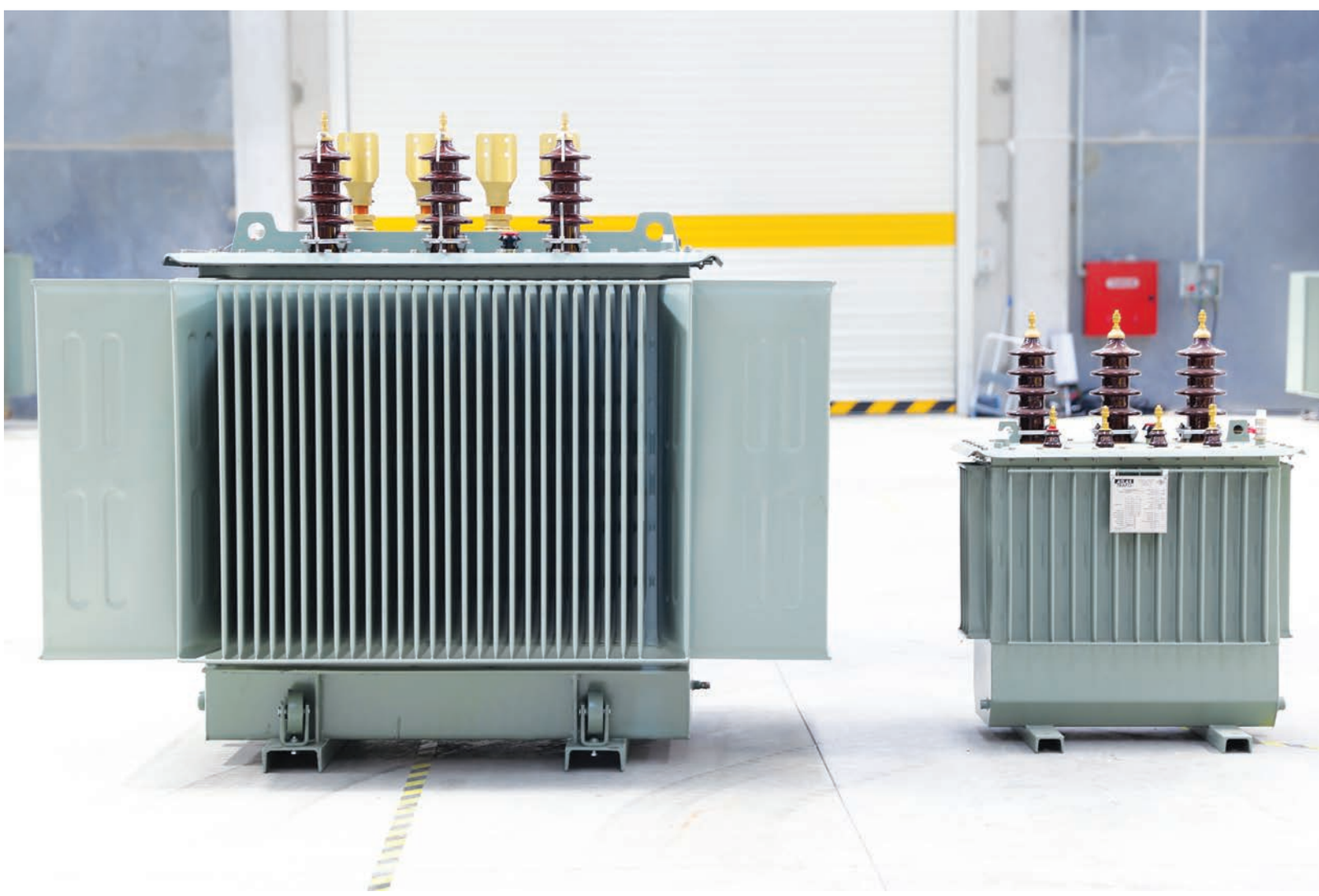
who are we?

Atlas Trafo A.S. is established to produce innovative, reliable and efficient transformers according to customers' needs.

In our products and services, we deliver customized, integrated solutions to our customers with our engineering background.

Founders are transformer production expert Electrical and Electronics Engineers, graduated from Middle East Technical University.

We never ignore to act responsibly in terms of environmental awareness, social duties and business ethics.



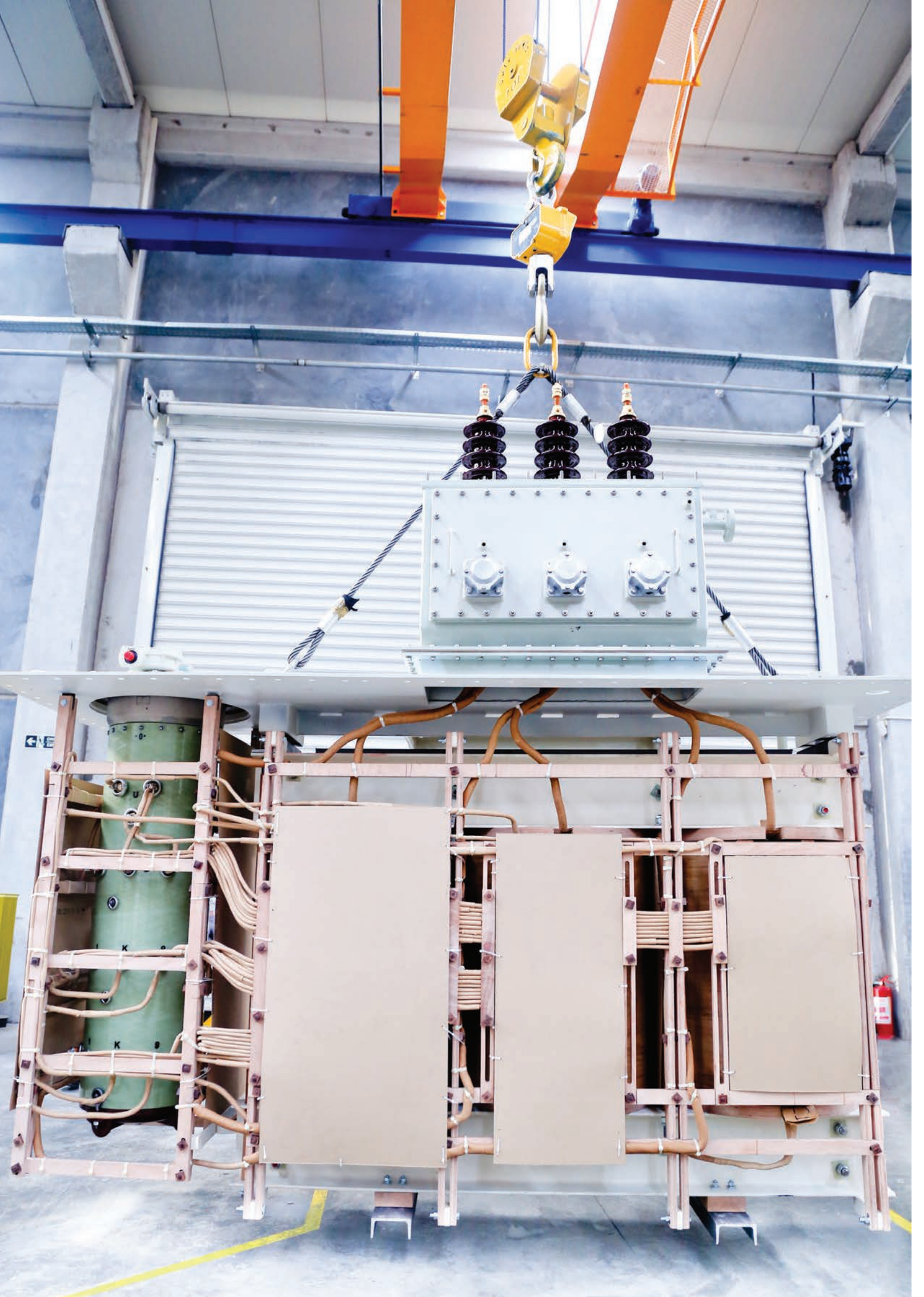
tailor made solutions for special applications

ATLAS TRAFO

production plant

Atlas Trafo A.S. has its own production plant in İzmir-Torbalı. Production plant has 5500 square meters closed area with total of 8000 square meters. Production plant is equipped with latest, hi-tech machineries to sustain high efficiency and to assure high quality standards.

Atlas Trafo is targeting to manufacture transformers with the same standards as worldwide known transformer manufacturers have. Atlas Trafo gives high priority to occupational health and worker safety.



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production stages

Magnetic Core

A transformer is an electrical device that transfers energy between two or more circuits through electromagnetic induction. A varying current in the transformer's primary winding creates a varying magnetic field in the core and this varying magnetic field induces a varying voltage in the secondary winding. For best energy transfer each transformer core is produced with interleaved laminations of cold rolled, grain oriented, low loss electrical sheet steel conforming. Our core designs are ensuring minimum noise and loss levels with uniform flux distribution throughout the magnetic circuit.

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production stages

Low Voltage and High Voltage Windings

According to customer requirements Low Voltage and High Voltage windings are designed with Copper are Aluminum conductors. LV windings are made of paper insulated conductors or foils. HV windings are made of enameled wires or paper insulated conductors. All components of insulation are made from electrical grade insulating board; processed to ensure electrical and mechanical stability throughout the temperatures found in operational service. High technology winding machines and manufacturing with qualified technicians ensure that each winding is able to withstand the excessive axial forces, which may result from external sources.

production stages

Tank and Top Cover

Transformer tanks are manufactured using mild steel, which is electrically welded. Cooling is effected by corrugated walls or radiators, electrically welded and independently pressure tested. Metal is pre-treated by sand blasting, then immediately covered with a high performance industrial paint finish, suitable for highly corrosive environments. This finish is designed to give maximum world-wide, long term protection in coastal, industrial, and general environments with suitable heat and oil resistance.

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production stages

Drying Process and Final Assembly

Completed windings are fitted on the cores and connected with bushings on the top cover. These assemblies are named as transformer active parts. All active parts are controlled by quality assurance engineers and pre- tested before drying process.
High-quality drying and quick filling under vacuum with insulation oil play a key role in extending the transformer's service life. After drying in thermostatically controlled vacuum ovens, transformer active parts are fitted into the transformer tank and filled with oil under vacuum. This is followed by oil pressure adjustments. After tanking process is complete, transformers are prepared for test.

production stages

Test

ATLAS Trafo applies all routine tests, type and special tests as per IEC EN 60076-1 standard. Tests according to ANSI/NEMA/CSA standards can also be carried in ATLAS Trafo laboratory. All transformers are dispatched to the customer only after successfully passing the final inspection and testing.


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products

Oil Immersed Distribution Transformers

ATLAS Trafo produces oil immersed distribution and power transformers in a range of 25 kVA to 1600 kVA up to 36 kV.

1 Phase Distribution Transformer

- Available ratings in between 10 to 100 kVA up to 36 kV.
- Accessory combinations for catenaries, utilities or special applications are possible.
- Designed as pole mounted with oil conservator.

3 Phase Distribution Transformer

- Available ratings in between 25 to 2500 kVA up to 36 kV.
- Hermetically sealed or with oil conservator.
- Copper or aluminum conductor as per request.
- Low loss, low temperature rise options
- Loss optimization for optimum efficient life cycle.
- Special insulation class and final coating options.
- Top or side mounted HV and LV.
- Off load tap changer with various tapping combinations.
- Pole or ground mounted design up to 400 kVA
- Ground mounted design over 400 kVA.
- Accessory combinations i.e. protection relay, cable box, thermometers.


MR
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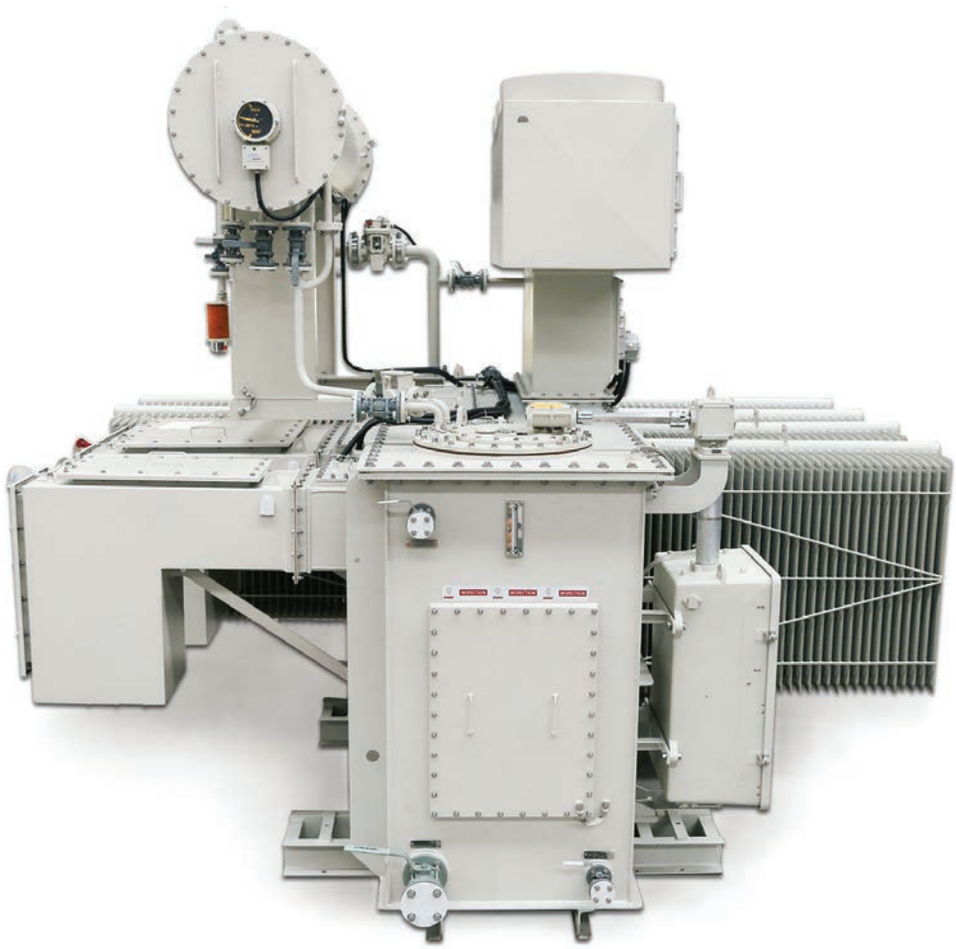
ATLAS TRAFO

products

3 phase Medium Power Transformers

- Available power ratings in between 2500 kVA to 16000 kVA.
- Available voltage ratings in between 6,3 kV to 36 kV.
- Off load or On load tap changer with various tapping combinations.
- Designed with oil conservator.
- Copper or aluminum conductor as per request.
- Low loss, low temperature rise options.
- Loss optimization for optimum efficient life cycle.
- Special insulation class and coating options.
- Vacuum resistant tank design with radiators is available.
- Accessory combinations i.e. remote control panel, automatic voltage
- regulators, protection relays, cable box, thermometers are possible.



DNV·GL

KEMA TYPE TEST CERTIFICATE OF SHORT-CIRCUIT PERFORMANCE

Atlas Trafo A.S.,
Izmir, Turkey

has successfully passed the type test sequence on a
A three-phase oil-immersed

Distribution transformer

Type: Oil type distribution transformer
Rating: 1000 kVA - (33 kV + 2 × 2,5 kV - 3 × 1,5 kV) / 0,4 kV -
Dyn11 - 50 Hz

The test object passed the specification of test duties of

IEC 60076-5

subclause 4.2 (Ability to withstand the dynamic effects of short-circuit)

The test results are recorded in Certificate No.

5047-17

This Certificate was issued on 11 April 2017

Zkušebnictví, a.s.
Robert Jech
Operational Manager

KEMA Laboratories

SUCCESFULLY TESTED BY KEMA DNV HIGH VOLYAGE LABORATORIES

certificates


simple
durable
reasonable
what you need

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characteristics according to EN 50588-1

Losses and Short Circuit Impedance values as per CENELEC EN 50588-1 and EN 50464-1

Rated Power	No load loss - Po (W)							Load loss - Pk (W)				Short Circuit Impedance (% Uk)	
	AAAo	AAo	Ao	Bo	Co	Do	Eo	Ak	Bk	Ck	Dk	Um ≤ 24 kV	24 kV < Um ≤ 36 kV
≤25 kVA	35	63	70					600	725	900		4	4,5
50 kVA	45	81	90	110	125	145	190	750	875	1100	1350	4	4,5
100 kVA	75	130	145	180	210	260	320	1250	1475	1750	2150	4	4,5
160 kVA	105	189	210	260	300	375	460	1750	2000	2350	3100	4	4,5
250 kVA	150	270	300	360	425	530	650	2350	2750	3250	4200	4	4,5
315 kVA	180	324	360	440	520	630	770	2800	3250	3900	5000	4	4,5
400 kVA	220	387	430	520	610	750	930	3250	3850	4600	6000	4	4,5
500 kVA	260	459	510	610	720	880	1100	3900	4600	5500	7200	4	4,5
630 kVA	300	540	600	730	860	1030	1300	4600	5400	6500	8400	4	4,5 or 6
800 kVA	330	585	650	800	930	1150	1400	6000	7000	8400	10500	6	6
1000 kVA	390	693	770	940	1100	1400	1700	7600	9000	10500	13000	6	6
1250 kVA	480	855	950	1150	1350	1750	2100	9500	11000	13000	16000	6	6
1600 kVA	600	1080	1200	1450	1700	2200	2600	12000	14000	16000	20000	6	6
2000 kVA	730	1305	1450	1800	2100	2700	3100	15000	18000	20000	26000	6	6
2500 kVA	880	1575	1750	2150	2500	3200	3500	18500	22000	26000	32000	6	6
3150 kVA	1100	1980	2200					23000	27500	32000		6	6

Given values may vary accroding to agreement between manufacturer and customer.

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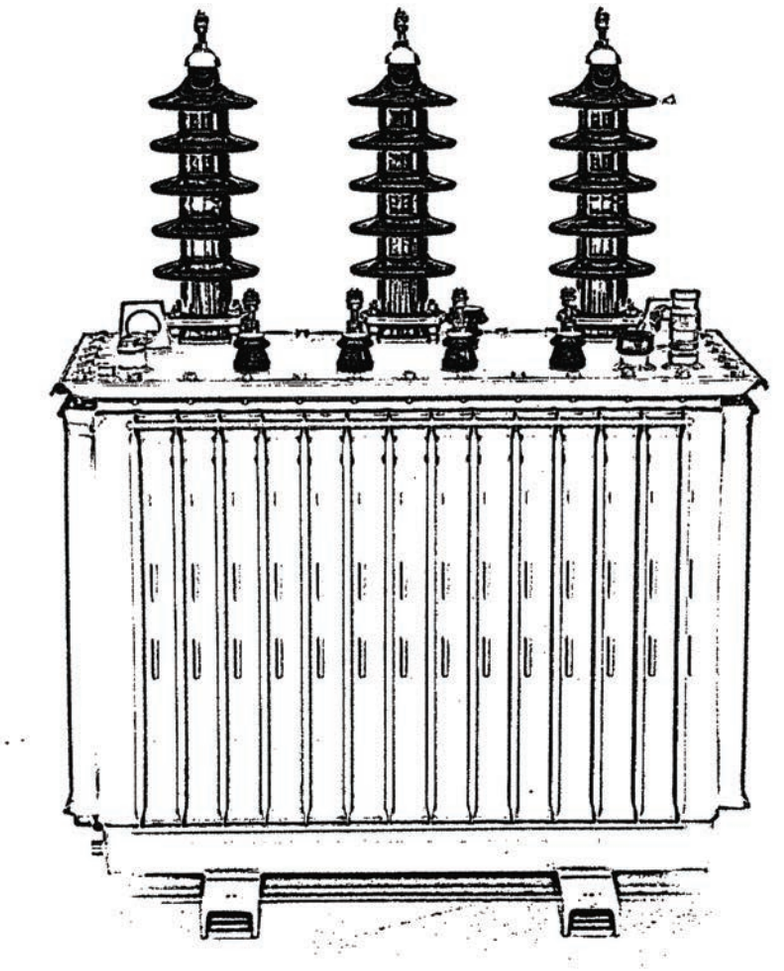

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Izmir Pancar OSB.
6.Cad. No:4
Torbalı /Izmir/ Turkiye
info@atlastrafo.com
Tel : +90 232 864 11 33
Fax: +90 232 864 11 34