ACTOM Distribution Transformers

ACTOM distribution transformers play a vital role in the electrical distribution chain. They provide the link between the distribution network and customers be they industries, communities or the infrastructure.

ACTOM Distribution Transformers design and manufacture a whole range of distribution transformers ranging from 16kVA - 5000kVA.

The ACTOM production facility, by its presence in South Africa, offers customers continuous product innovation and support services tailored to their exact requirements.

In close collaboration with utilities, distributors and users, ACTOM has perfected a range of transformer solutions combining high performance and suitability to the electrical and natural environment.

Oil-immersed transformers

These are available in a vast range and enable installation as close as possible to the user:

- in substations or cubicles, for towns, small and medium industrial areas or large industrial sites.
- polemounted, for rural distribution in low consumption areas.
- in pad-mounted substations in outlying urban or rural areas, for underground networks.
- in various mining applications above and below ground.

Conscious of the installation and utilisation constraints, particularly in regard to personnel safety, ACTOM offers distribution transformers immersed in PCB free mineral oil.

Environment, Health & Safety and reliability

Reduced noise levels, reduced size, resistance to harmonics and PCB free oils are some examples of the performance criteria achieved in the different ranges offered by ACTOM.

These developments minimise the impact of ACTOM transformers on the environment whilst providing reliable and long lasting service.

ACTOM Transformers is an accredited ISO 14001:2004 and OHSAS 18001:2007 company.

Commitment to quality

ACTOM transformers carry the SABS mark of quality, a symbol of its ongoing drive to maintain and improve standards.

ACTOM’s robust transformers are double wound, fully insulated, oil immersed and natural air-cooled. The range includes single-phase pole mounted units of cylindrical design and three-phaserectangular units which may be either pole mounted or ground mounted as required.

ACTOM has developed a wrap-around tank design to reduce the number of welds.

The use of high quality magnetic core steel and innovative core clamping designs ensures that transformers are the most compact, low mass units (up to 5000kVA) currently available.

The transformers are designed, manufactured and tested to the well established SABS 780 specification, with regular independent auditing of the ACTOM manufacturing facility ensuring that this stringent standard is maintained.

ACTOM is a listed ISO 9001:2008 company. The quality management system controls all materials, personnel and processes in the design and manufacture of its transformers, ensuring consistency and uniformity.

Stringently controlled inspection procedures are followed throughout to ensure that products are manufactured to customer requirements, statutory requirements and to the quality and environmental standards to which ACTOM is committed.

Single and three phase transformers available for pole or platform mounting.
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Transformers for industrial applications

VSD Applications

ACTOM Converter Transformers (VSD Drives) are designed for industrial application and are manufactured and tested to the SABS IEC 613781 standard.

Transformers for variable speed drive applications are manufactured up to 5 000kVA.

The careful design of static screening and the detailed attention to conductor geometry ensures that the unit will withstand the typically high electrical stresses and the harmonic content normally associated with variable speed drives.

In addition, the large robust radiators will quickly dissipate any heat created by extra load losses that are normally caused by Eddy currents, therefore obviating the need as in the past to de-rate the unit.

An ACTOM Converter/VSD Transformer will operate continuously at the full rating plate values.

Short Circuit Testing

The following transformers have been successfully short circuit tested to SABS-IEC 60076-5 and Eskom specific 34-346:

- 16kVA 11 & 22kV/240V Single phase
- 32kVA 11 & 22kV±240V/415V Dual phase
- 25kVA 11 & 22kV/415V Three Phase Dyn11
- 50kVA 11 & 22kV/415V Three phase Dyn11
- 100kVA 11 & 22kV/415V Three phase Dyn11
- 200kVA 11 & 22kV/415V Three phase Dyn11
- 64kVA 22 kV±240V Dual phase
- 64kVA 33 kV±240V Dual phase
- 64kVA 19 kV±240V Dual phase
- 100kVA 11 kV/415V

Reliability and versatility

ACTOM distribution transformers are designed and manufactured to the highest quality standards to ensure enduring reliability - a characteristic necessary to foster peace of mind amongst customers and consumers.

ACTOM applies the latest technological advances in its range of distribution transformers, introducing innovations to the local and export market to meet changing needs identified through ongoing research.

Thousands of ACTOM distribution transformers are in use in various sectors of the economy, with customers ranging from Eskom, municipalities, mines as well as general industry and are favoured by consulting engineers.

Customise with accessories

The range of transformers available from ACTOM reflects the latest trends in transformer design in that cost effective base units are available with the minimum of accessories.

However, an extensive range of accessories has been developed to allow customisation of transformers to meet the specific requirements of individual customers.

The range of accessories and options includes:
- stainless steel rating plates
- bolted lid
- oil-filling plug
- drain plug
- filler and drain valves
- conservator
- hermetically sealed
- indicating thermometer with alarm and trip contacts
- Buchholtz relay
- HV and LV air cable box
- LV trunking
- HV compound cable box
- oil level gauge
- jacking pads
- winding temperature indicator
- auxiliary terminal box
- rollers

Manufacturing facility, located in Gauteng, South Africa.

Completed transformers prior to dispatch.

Final assembly and dispatch area.
Transformers for industrial applications

VSD Applications
ACTOM Converter Transformers (VSD Drives) are designed for industrial application and are manufactured and tested to the SABS IEC 61378-1 standard.

Transformers for variable speed drive applications are manufactured up to 5 000 kVA.

The careful design of static screening and the detailed attention to conductor geometry ensures that the unit will withstand the typically high electrical stresses and the harmonic content normally associated with variable speed drives.

In addition, the large robust radiators will quickly dissipate any heat created by extra load losses that are normally caused by Eddy currents, therefore obviating the need as in the past to de-rate the unit.

An ACTOM Converter/VSD Transformer will operate continuously at the full rating plate values.

Short Circuit Testing
The following transformers have been successfully short circuit tested to SABS-IEC 60076-5 and Eskom specific 34-346:

- 16 kVA 11 & 22 kV 240 V Single phase
- 32 kVA 11 & 22 kV ±240 V LV Dual phase
- 25 kVA 11 & 22 kV 415 V Three phase Dyn 11
- 50 kVA 11 & 22 kV 415 V Three phase Dyn 11
- 100 kVA 11 & 22 kV 415 V Three phase Dyn 11
- 200 kVA 11 & 22 kV 415 V Three phase Dyn 11

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The range of accessories and options includes:
- stainless steel rating plates
- bolted lid
- oil-filling plug
- drain plug
- filler and drain valves
- conservator
- hermetically sealed indicating thermometer with alarm and trip contacts
- Buchholz relay
- HV and LV air cable box
- LV trunking
- HV compound cable box
- oil level gauge
- jacking pads
- winding temperature indicator
- auxiliary terminal box
- rollers

2500 kVA 11000/5500 to SABS 780 specification.

Completed transformers prior to dispatch.

Manufacturing facility located in Gauteng, South Africa.

800 kVA 12000/4000 to SABS 780 specification.
## Technical Data

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#### 11 000/240 Volt Single Phase

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#### 11 000/420 Volt Three Phase

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#### Technical Data

**RATED POWER KVA:**
- 25
- 50
- 100
- 200
- 315
- 400
- 500
- 630
- 1000
- 1250
- 1600
- 2000
- 2500
- 3150

**NO LOSS WATTS:**
- 150
- 220
- 360
- 600
- 840
- 900
- 1180
- 1400
- 1650
- 1950
- 2300
- 2770
- 3250
- 3800
- 4500
- 6000

**LOSS WATTS:**
- 570
- 1000
- 1700
- 2700
- 3800
- 4500
- 5400
- 6400
- 8000
- 9500
- 11000
- 13500
- 16000
- 19300
- 22800
- 26500
- 37000

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1. Other voltages, vector groups, impedances, SWER and dual ratio transformers are available on request.
2. Transformers are generally manufactured in accordance with the SABS-IEC 60076 but other standards can be accommodated.
3. Information provided is for guidance purposes only and is subject to change with product improvement.
4. Ratings from 50kVA are available hermetically sealed impulse and tank stiffness.
5. Dimensions to be confirmed when ordering units.
6. Welding specifications AWS D1.1 Section 5.
7. Short circuit testing on request.
8. Type testing (Heatrun, impulse and tank stiffness) on request.