



POWER CONDITIONING / HIGH CURRENT CONTROL

3000 A MOTORISED VARIABLE AUTO TRANSFORMER

Oil-Cooled - 3 Phase, 4 Wire - Star Connected - Independent Motorised Phase Control



PRODUCT VIEW

MOTORISED OIL-COOLED UNIT

KEY RATINGS

3000 A / Phase

Secondary current

400 VAC

Primary, star connected

470 VAC

Secondary, star connected

100% Duty

Continuous operation

ONAN

Oil Natural Air Natural

DESIGNED FOR

- High-current voltage regulation
- Continuous industrial duty
- Independent phase adjustment
- Reliable motorised operation

ENGINEERED FOR RELIABLE POWER.

Heavy-duty construction, precise phase-wise motorised adjustment and ONAN oil cooling for demanding high-current applications.

+91 9834816500

punefactory@voltcontrolsystem.com

www.voltcontrolsystem.com

Pune, Maharashtra, India

Technical specification

Motorised variable auto transformer designed for high-current voltage regulation with independent control on each phase.



3-PHASE / 4-WIRE

STAR CONNECTED

ONAN OIL-COOLED

100% CONTINUOUS

ELECTRICAL RATINGS

Type	Motorised Variable Auto Transformer
Phase	3 Phase, 4 Wire
Connection	Star Connected
Cooling	Oil Cooled - ONAN
Primary Voltage	400 VAC, Star Connected
Secondary Voltage	470 VAC, Star Connected
Secondary Current	3000 A/Phase
Duty Cycle	100% Continuous Duty

CONTROL & MONITORING

Voltage Control	Independent Motorised Control on Each Phase
Limit Switches	Double changeover limit switches at PARK and FULL positions
Input Termination	4 Copper Busbars with Common Neutral
Output Termination	3 Copper Busbars
Busbar Material	Copper
Temperature Monitoring	PT100 Thermometer
Oil Level Monitoring	Glass window for visual oil-level inspection
Earthing	2 Nos. earthing bolts on tank

MECHANICAL DATA

Overall Dimensions	2380 (L) x 2890 (D) x 3160 (H) mm
Weight	5400 kg (without oil)

Oil Required	Approx. 3500 litres
--------------	---------------------

Motorised control, terminals & safety

Independent phase-wise drive and positive end-position limiting support controlled operation across all three phases.



INPUT / OUTPUT TERMINATION

COPPER BUSBAR ARRANGEMENT

MOTORISED VOLTAGE CONTROL

- Independent motorised voltage control on each phase.
- Allows phase-wise adjustment for accurate three-phase control.
- Double changeover limit switches at PARK position.
- Double changeover limit switches at FULL position.
- Limit switching provides safe end-position control for motorised travel.

TERMINATIONS

- Input: 4 copper busbars with common neutral.
- Output: 3 copper busbars.
- Busbar material: Copper.

MONITORING & PROTECTION

- PT100 thermometer for temperature monitoring.
- Glass window for visual oil-level inspection.
- Dehumidifier arrangement for moisture protection.
- 2 earthing bolts provided on tank.

HANDLING & MAINTENANCE

- Large inlet and outlet drain plugs.
- Lifting hooks for safe handling.
- Heavy-duty wheels for installation and maintenance movement.
- Oil filling, draining and maintenance provisions provided.

CABLE ENTRY & GLANDING

- 7 Nos. cable glands provided for incoming and outgoing power cables.
- Power-cable gland sizes to be selected/provided as per customer cable size and requirement.
- 3 Nos. PG21 glands provided for control and monitoring cables.

Oil cooling, enclosure & mechanical construction

Robust fabricated construction with radiator banks, service provisions and industrial surface protection.



RADIATOR / REAR VIEW

OIL COOLING ARRANGEMENT



SIDE PROFILE

TANK / RADIATORS / WHEELS

ONAN COOLING

Oil Natural Air Natural cooling uses natural oil circulation within the transformer and natural air flow across the radiator surfaces.

MECHANICAL CONSTRUCTION

- Robust fabricated steel tank.
- Radiators for effective heat dissipation.
- Suitable for continuous-duty industrial operation.

MECHANICAL DATA & FINISH

- Overall dimensions: 2380 (L) x 2890 (D) x 3160 (H) mm.
- Weight: 5400 kg without oil.
- Oil required: approximately 3500 litres.
- Tank and radiators: Epoxy painted in RAL 7035.
- Fabricated covers: Epoxy painted / powder coated in RAL 7037.

Product construction - multiple views

Selected views of the manufactured 3000A motorised oil-cooled variable auto transformer.

**3/4 VIEW**

CONTROL CABINET SIDE

**SIDE VIEW**

RADIATOR BANKS

**FRONT VIEW**

CLOSED COVERS

**REAR VIEW**

COOLING SYSTEM

**SIDE PROFILE**

MAINTENANCE ACCESS

**ANGLE VIEW**

HEAVY-DUTY ASSEMBLY

APPLICATION HIGHLIGHTS

High Current | Continuous Duty | Motorised Voltage Control | Independent Phase Control | Oil Cooled | Robust Industrial Construction | Easy Monitoring & Maintenance

3000 A motorised variable auto transformer

Built for demanding high-current voltage control applications requiring reliable, continuous and precise voltage adjustment.



KEY PRODUCT FEATURES

- 3000 A per phase secondary current
- 400 VAC primary / 470 VAC secondary
- 3-phase, 4-wire, star connected
- Independent motorised control on each phase
- Double PARK and FULL changeover limit switches
- ONAN oil-cooled construction
- 100% continuous-duty operation
- Copper busbar terminations
- PT100 temperature monitoring
- Visual oil-level monitoring
- Dehumidifier arrangement
- Heavy-duty wheels and lifting hooks

Dimensions: 2380 x 2890 x 3160 mm (L x D x H) | Weight: 5400 kg without oil | Oil: approx. 3500 litres

VOLT CONTROL SYSTEM

+91 9834816500

ENGINEERED FOR RELIABLE POWER.

punefactory@voltcontrolsystem.com

Customized power-conditioning, conversion and electrical solutions for industrial applications.

www.voltcontrolsystem.com

Unit 06, Electronics Sadan-01

MIDC Bhosari, Pune - 411026

