



OIL TRANSFORMERS

Product leaflet

- According to : IEC 60076, NF C 17-200
- According to EU directive 548/2014 Eco design - 2021 version
- Full-fill transformer
- Robust transformer long service life

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***AUGIER transformers comply with the Eco Design Directive, regulation 548/2014 version 2021.
This regulation consists in reducing the losses of transformers.***

***By renovating electrical installations, with AUGIER transformers, be an actor in saving energy
and participate in the reduction of greenhouse gas emissions.***



Generalities

AUGIER oil transformers are intended to be installed in an AUGIER substation, PTC Shelter or in a dry and ventilated room.

- ◆ Cooling in natural air AN
- ◆ Ambient operating temperature from -15 °C to + 40 °C,
- ◆ On request from -15 °C to + 55 °C
- ◆ Altitude below 1000 meters
- ◆ Transformers designed to limit the inrush currents
- ◆ Insulation voltage 3.6 kV - 7.2 kV - 10 kV - 17.5 kV - 24 kV
- ◆ Step-up or step-down transformer
- ◆ On request, primary dual-voltage, rated power conserved

Construction:

- ◆ Low loss oriented crystal plate magnetic circuits
- ◆ Aluminium or copper coils, mineral oil type, class A
- ◆ Metal flanges



COUPLING	DESIGNATION	Rated power	VOLTAGE
Three phase	TTHI	100 to 1250 kVA	20 kV / 3200 V - 5500 V or 6600 V
Three phase - single phase	TTMHI	25 to 160 kVA	20 kV / 3200 V
Three phase - two phase	TTBHI	25 to 160 kVA	20 kV / 3200 V

Standard accessories

- ◆ Off load tap changer: five positions - 5% -2.5 0 +2.5 +5%
- ◆ DGPT2 or DMCR relay protection
- ◆ Earth terminals
- ◆ Lifting eyes
- ◆ Plug-in terminal fixed parts or porcelain terminal according to voltage
- ◆ Plug-in terminal locking mechanical system, lock not provided

Optional accessories

- ◆ Locks
- ◆ Oil retention tank
- ◆ Vegetal oil
- ◆ Dual voltage transformer



Standards

The oil transformers meet the recommendations of the standards:

CEI - NF EN 60076	Power transformers - Part 1: general
UE 548/2014 - 2021	European regulations for low, medium and high power transformers
NFC 17-200	Outdoor electrical installations

CHARACTERISTICS

MV / 3200 V - 5500 V or 6600 V

Mineral oil transformers

Transformers MV / 3200 V - 5500 V or 6600 V

- ◆ Hermetically sealed, full-fill type
- ◆ Three phase
- ◆ ONAN cooling
- ◆ 50 hz

Oil transformer MV / 3200 V - 5500 V or 6600 V											
Mechanical characteristics	Rated power (kVA)	100	160	250	315	400	500	630	800	1000	1250
	Length (mm)	1100	1150	1350	1500	1600	1650	1750	1850	1950	2050
	Width (mm)	800	800	850	900	900	950	950	1000	1000	1000
	Height (mm)	1200	1350	1400	1400	1600	1700	1700	1700	1800	1700
	Oil weight (kg)	240	190	290	380	400	480	490	630	720	700
	Total weight (kg)	850	990	1550	1850	2000	2200	2650	3150	3300	3700

Three phase transformer UE 548/2014 - 2021 version											
Electrical Specifications	Rated power (kVA)	100	160	250	315	400	500	630	800	1000	1250
	No-load losses (W)	<130	<189	<270	<324	<387	<459	<540	<585	<693	<855
	Copper losses (W) à 75°C	<1250	<1750	<2350	<2800	<3250	<3900	<4600	<6000	<7600	<9500
	Short circuit voltage (%)	4	4	4	4	4	4	4	4	6	6



Oil transformers with:

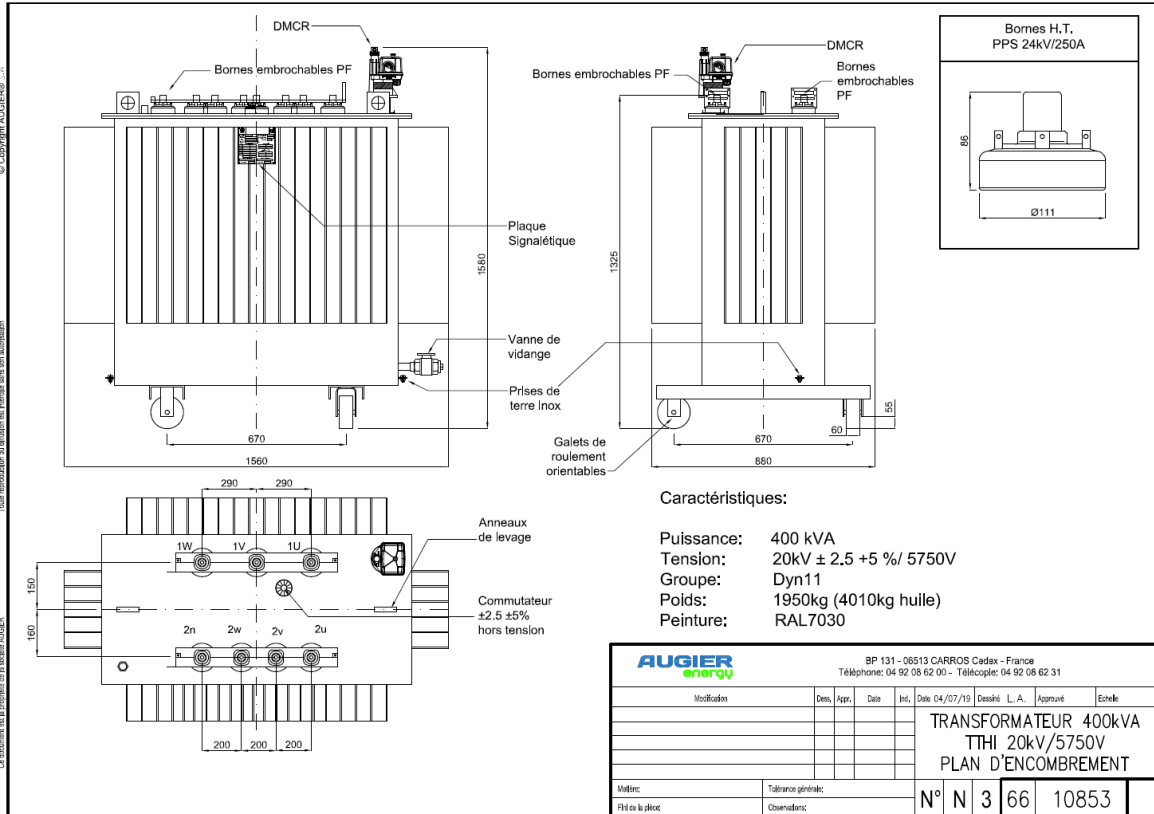
- ◆ Plug-in terminals PF250
- ◆ Locking of primary and secondary terminals
- ◆ DMCR protection relay

DRAWING

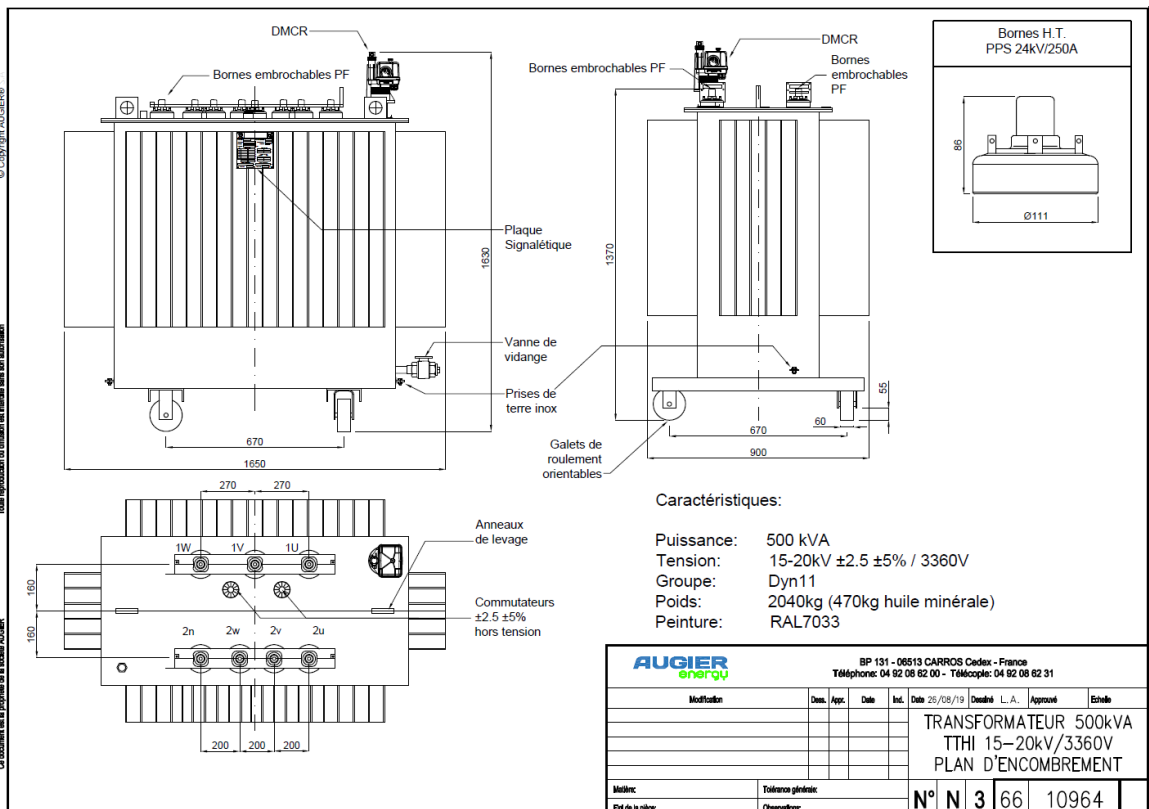
MV / 3200 V - 5500 V or 6600 V

Mineral oil transformers

- ◆ Three-phase transformer, primary and secondary connection on plug-in terminals, DMCR protection relay, terminal locking



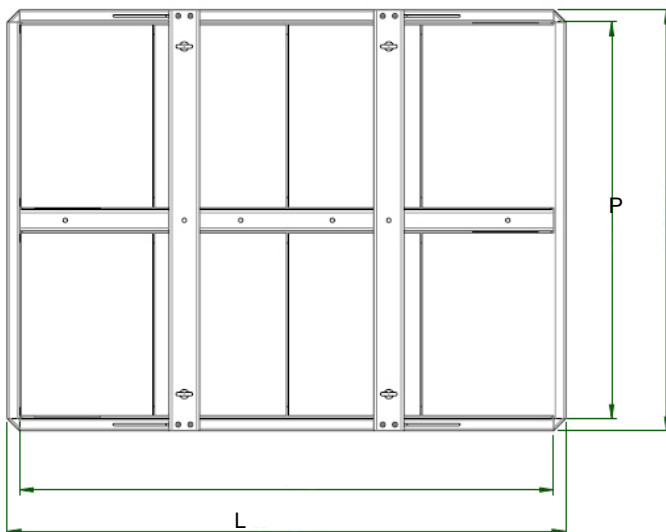
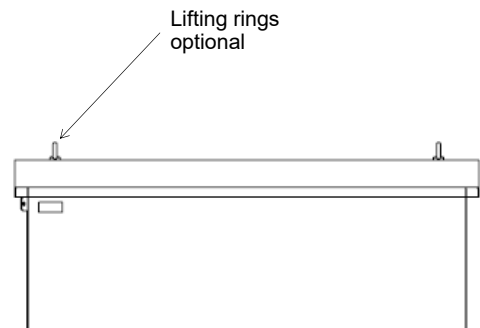
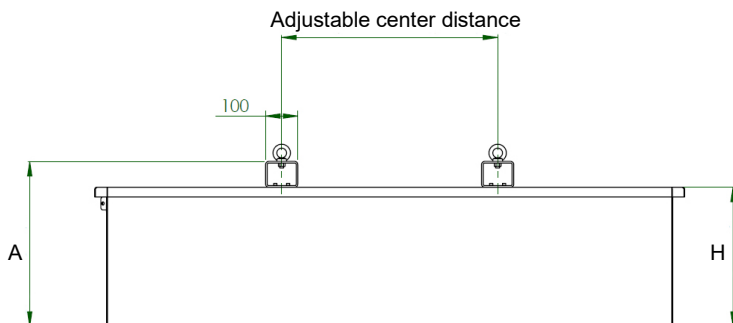
- ◆ Three-phase 15-20 kV / 3200V transformer, primary and secondary connection on plug-in terminals, DMCR protection relay, terminal locking



- Oil retention tank compliant with standard NF C 13-200 (revision 09/2009), for total oil retention. Retention tank made of hot-dip galvanized sheet. The extinguishing system allows the flames to be quickly extinguished.

Extinguishing oil retention tank NF C 13-200										
Mechanical characteristics	Rated power (kVA)	100	160	250	315	400	500	630	800	1000
	Length L (mm)	1360	1360	1680	1830	1830	1830	1830	2050	2050
	Width P (mm)	960	960	1230	1380	1380	1380	1380	1380	1380
	Height H (mm)	300	300	430	430	430	430	430	485	485
	Oil weight (kg)	95	95	180	210	210	210	210	250	250
	Total weight (kg)	250	250	660	820	820	820	820	1060	1060
	Transformer raising A (mm)	375	375	510	510	510	510	510	565	565

Note: The dimensions of the tanks are given as an indication, the retention tank must be adapted to the transformer.



AUGIER HAS BEEN ISO 9001 CERTIFIED SINCE 1995



Dealer contact information:

A large empty rectangular box with a thin black border, intended for dealer contact information.



60.40102 With constant improvements, the manufacturer may alter information without prior warning