

Ambient temperature (min)		°C -20		Code: -
Ambient temperature (max)		°C	45	Corrosive environment classification: C4-H
Max. installation altitude		m a.s.l.	1,000	Losses according to EU 548/2014 Tier 2 / EU 2019/178.
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Electrical Feat	turos	77771707 0777	WENT ON COTDOO!	Accessories Included
			Hermetic	
Type Inculating fluid		-	Mineral Oil	Integrated safety detector protection relay for electrical transformers (DGPT2 or equivalent).
Insulating fluid Power		-	3,550 @ 35°C	Detection:
Power		kVA kVA	3,385 @ 40°C	Gas discharge or drop of the dielectric level (1)
Power		kVA	3,220 @ 45°C	contact)
Primary voltage		kV	30	Internal pressure (1 contact)
Secondary voltage		kV	0.640	Dielectric temperature (2 contacts)
Off load tap changer		%	± 2 × 2.5	Reading:
Primary phase current		A	68.3	Dielectric temperature
Secondary phase current		A	3,202	Dielectric level or gas volume
Vector group			Dy11	PT100 sensor for oil temperature
Frequency		Hz	50	N. 3 H.V. terminals plug-in bushings Elastimold type
Cooling system		-	ONAN	N. 3 L.V. terminals, IPOO bushings
No load current		%	0.5	N. 2 Earth terminals in stainless steel
Insulation levels - primary side		kV	36 / 70 / 170	N. 1 Electrostatic shield in between primary & secondary
Insulation levels - secondary side		kV	3.6 / 10	windings
Winding material - primary side		-	Aluminum	IP55 junction box for auxiliary connections
Winding material - secondary side			Aluminum	Pressure release valve
Sound pressure level, LpA		dB(A)	TBD	Oil filling device with breather valve
No Load losses		W	2,670	Oil draining device
Load losses (75°C)		W	26,600 (*)	_ First oil filling _ Lifting lugs
Impedance voltage, V _{SC}		%	7 (*)	Towing hooks
-			-	Registration plate with data
-		_	-	Documentation:
Series resistance R (primary side)		Ω	TBD	User and installation guide in English language
Series reactance X (primary side)		Ω	TBD	Bulletin related to the test applied
Voltage drop	$\cos \varphi = 0.8$	100%	TBD	Oil Certificate
Efficiency	$\cos \varphi = 0.8$	50%	TBD	Certificate of conformity
Efficiency	$\cos \varphi = 0.8$	75%	TBD	
Efficiency	$\cos \varphi = 0.8$	100%	TBD	
Max temperature rise - oil		K	60 (**)	1
Max temperature rise - windings		K	65 (**)	7
Winding hot spot		K	78 (**)	
Mechanical Fe		l .	•	
Hermetic / Expansion vessel		-	Hermetic	
Overall protection rating (1)		-	IP55	(1) Excluding MV/LV terminals
Length		mm	TBD (***)	
Height		mm	TBD (***)	
Depth		mm	TBD (***)	
Oil weight		kg	TBD (***)	
Unit total weight		kg	TBD (***)	

Transformers in this specification are engineered, manufactured and tested according to IEC 60076 Standard.

The transformers are suitable for outdoor installations under direct solar radiation.

Ingeteam qualified suppliers: ABB, Siemens, SEA, GBE, CELME, Westrafo, Trafo Elettro, Newton Trasformatori, Ormazabal, Alkargo Transformers, IMEFY SL, Telawne Power Equipments, ELTAS, BEST Transformers, Sanil Electric Co., GE, SGB-SMIT Group.

^(*) Referred to 3,550 kVA at 35°C ambient temperature (Peak Efficiency Index \geq 99.525%).

^(**) Referred to 40°C ambient temperature.

^(***) Ingeteam reserves the right to change mechanical data maintaining unmodified the electrical characteristics.