

THREE-PHASE AUTOTRANSFORMERS WITH NEUTRAL GENERATION ATTGN SERIES

an-type natural cooling in air, suitable for indoor installation.

Electrolytic COPPER wraps.

Single winding with intermediate socket

Several power grids in Italy and around the world do not have a neutral wire. In the presence of single-phase loads you need to generate a neutral in the presence of unbalanced loads. When you don't need to separate loads from the network with a Dyn11 separation transformer a neutral generation autotransformer, which is improperly defined as an autotransformer because from a constructive point of view is a reactor connected to Zig-Zag.

When you also need to adapt the network voltage (e.g. from 220V to 400V three-phase) you can use a real step-up autotransformer with connections to simple Zig-Zag or double Zig-Zag.

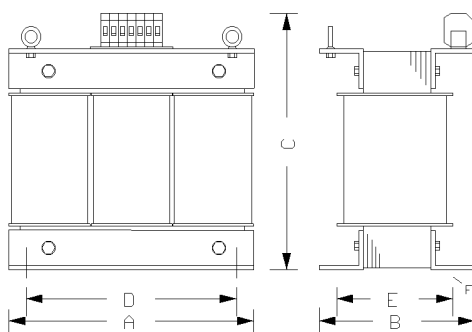


TECHNICAL SPECIFICATION

Rated power	3KVA to 200KVA (Higher ratings available on request)
Input voltage:	400Vac three-phase
Output voltage	400Vac three-phase + N
Service:	Continuous
Frequency:	50/60 Hz
Connection group:	Zig-Zag + N
Vector group:	Zn0
Isolation class :	F
Degree of protection:	IP00
Protection class:	I
Reference environmental temperatures	-5°C to +40°C
Maximum noise level at 1m.	< 60 dB (A)
Relative humidity	50% - 100%
Operating altitude without derating:	up to 1000 m.
Applied rules:	EN61558-2-13

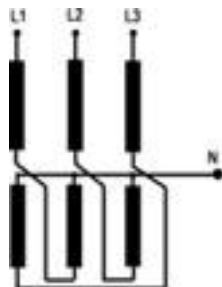
STANDARD ACCESSORIES

Lifting lugs	Optional
Rating plate	Yes
Other accessories and equipment as from our catalogue	

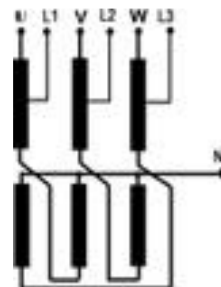


Technical data and images may be subject to a change without notice

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Autotransformer generating neutral

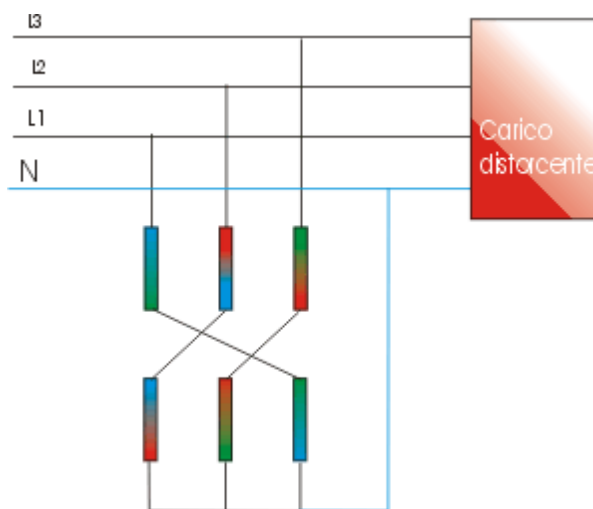


Step up / step down Autotransformer generating neutral

Part no.	Rated power	Rated voltage V	Dimensions mm.	weight KG.
ATTGN249	3	400+N	240X120X205	12
ATTGN287	5	400+N	240X130X205	15
ATTGN387	10	400+N	300X130X255	24
ATTGN403	12	400+N	300X140X255	29
ATTGN427	15	400+N	300X150X255	33
ATTGN467	20	400+N	360X160X305	42
ATTGN483	22	400+N	360X160X305	44
ATTGN507	25	400+N	360X170X305	49
ATTGN547	30	400+N	360X180X305	55
ATTGN627	40	400+N	420X190X355	73
ATTGN707	50	400+N	420X200X355	85
ATTGN727	60	400+N	420X210X355	98
ATTGN747	70	400+N	420X240X355	108
ATTGN767	80	400+N	480X234X405	117
ATTGN787	90	400+N	480X244X405	129
ATTGN807	100	400+N	480X254X405	142
ATTGN811	120	400+N	480X274X405	163
ATTGN817	150	400+N	600X270X505	201
ATTGN822	175	400+N	600X290X505	240
ATTGN827	200	400+N	600X320X505	285

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It should be noted an important low voltage application of zigzag reactors, which has grown in importance with the spread of non-linear loads that absorb currents not of sinusoidal shape, therefore containing, as they say, a high harmonic content. These loads (rectifiers, inverters, etc.) can be considered as generators of harmonic currents that cause drops on the network impedances by deforming the voltage. The phenomenon is all the more sensitive the closer the power of the distorting load is to that of the transformer and can become absolutely intolerable when the generator is not the public network but a generator. It is then necessary to make sure that the impedances "found" by these currents are as small as possible. The currents of third harmonic, that is of triple frequency of the fundamental, and its multiples constitute in a three-phase system, homopolar triples and the impedance concerned is that of the zero sequence. The zig-zag reactors have, as mentioned, zero sequence impedances which can be very low so they prevent or at least attenuate the onset of the corresponding voltage harmonics. They therefore function as harmonic compensators for non-linear loads. They are to be installed in the immediate vicinity of the distorting load.



AVAILABLE ACCESSORIES ON REQUEST

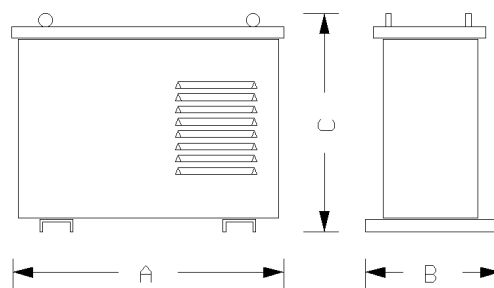
Installed in a protective metal box painted with RAL7035 powder coating

Degree of protection IP23

Cable entry from the side and from the bottom

Provision of inlet / outlet cable glands

Internal and external rating plate



Part No	Suitable For	Dimensions mm.	weight Kg
SAM01	3:5KVA	290x260x245	8
SAM02	10:15KVA	430x290x395	10
SAM03	20:30KVA	475x355x495	15
SAM04	40:60KVA	550x390x553	17
SAM05	70:100KVA	710x440x670	20
SAM07	120KVA:200KVA	775x570x825	25
SAM09C	--	900x640x1030	40
SAM10	--	1300X1000X1300	50

IP44 version

SAM07-44	--	825X570X825	30
SAM09C-44	--	950X640X1030	50

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