

**THREE PHASE REVERSIBLE AUTOTRANSFORMERS  
220/380/460/480+N REVERSIBLE**

**Current rating table**

Sec.V	220V	380V	460V	480V
Power	A	A	A	A
1KVA	2.6	1.5	1.2	1.2
2KVA	5.2	3.0	2.5	2.4
3KVA	7.8	4.5	3.8	3.6
4KVA	10.4	6.0	5.0	4.8
5kVA	13	7	6	6
10kVA	26	15	12	12
15kVA	39	22	19	18
20kVA	52	30	25	24
25kVA	65	37	32	30
30kVA	78	45	38	36
40kVA	104	60	50	48
50kVA	130	75	64	60
60kVA	156	90	76	72
80kVA	208	120	100	96
100kVA	260	150	128	120
150kVA	390	225	192	180
200kVA	520	300	256	240
300kVA	780	450	380	360
500kVA	1300	750	640	600

**Guarantee terms**

All the transformers manufactured by K-FACTOR SRL are subject to accurate tests and guaranteed for 12 months from the purchase date. This guarantee includes the replacement or the repair of the components acknowledged from K-FACTOR as inefficient or faulty by manufacturing defect.

Casual breaks, destruction or fulguration by natural events, damages caused by negligence, wrong use or installation, improper and not conforming to the technical specification are not included in the guarantee.

Guarantee is void if transformer has been tampered or repaired by not authorized personnel or modified or even verified without the approval of K-FACTOR.

Extension of the guarantee is not provided in case of intervention.

Any compensation for direct or indirect damages of any nature to persons, things, animals caused by the use or the suspension from the use of the transformer is excluded.

Guarantee is valid only for goods delivered to our factory in Modena, Italy. Any transportation or packing cost is in charge of the customer.

For any debate is competent by exclusive way the Forum of Modena, Italy

**K-FACTOR SRL**

Via Ferrari 27/44 – I-41043 Corlo di Formigine (MO) – ITALY  
Tel. +39-059573986 Fax. +39-059573986 <http://www.ideomat.com>

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**INSTRUCTION MANUAL  
GUARANTEE**

**TECHNICAL SPECIFICATION**

**INPUT/OUTPUT VOLTAGE: 220V - 380V - 460V - 480V THREE PHASE  
REVERSIBLE**

FREQUENCY:	<b>50/60Hz</b>
Vcc:	<b>7,5%</b>
ISOLATION VOLTAGE (dielectric strength winding to earth):	<b>&gt; 5KV</b>
FULL LOAD TEMPERATURE RISE (at 40°C amb.temp.):	<b>&lt; 100°C</b>
ISOLATION CLASS:	<b>E</b>
PROTECTION LEVEL	<b>IP23</b>

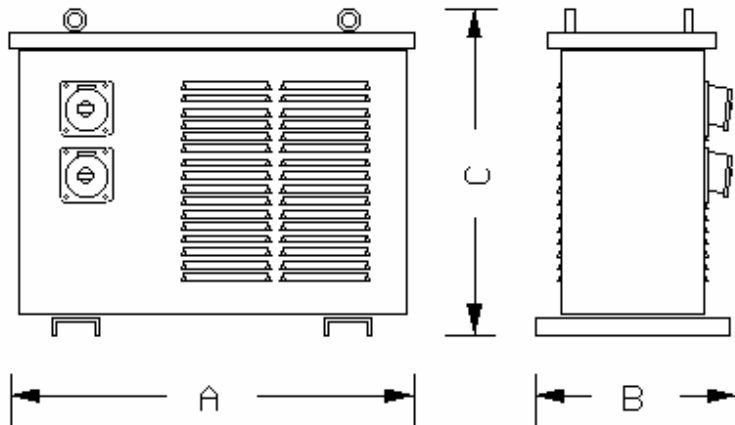
**MATERIALS**

WINDINGS:	<b>G-2 CLASS H-220°C ENAMELLED COPPER WIRE OR CLASS H NOMEX PROTECTED</b>
CORE:	<b>GRAIN ORIENTED LAMINATION</b>
COILS:	<b>FIBER GLASS CL. F-H ISOLATING BOBBINS</b>

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ELECTRICAL SPECS.			PHISICAL SPECS.			
KVA	KW	H.P.	A	B	C	WEIGHT KG
1	0,8	0,86	265	200	255	12
2	1,6	1.72	265	200	255	18
3	2,4	2.58	310	225	280	20
4	3,2	3.44	310	225	280	26
5	4,0	4.30	405	300	445	38
10	8,0	8.60	470	300	480	52
15	12,0	12.90	470	300	480	58
20	16,0	17.20	560	370	550	72
25	20,0	21.50	560	370	550	90
30	24,0	25.80	635	410	625	121
40	32,0	34.40	635	410	625	135
50	40,0	43.00	635	410	625	140
60	48,0	51.60	680	410	730	172
80	64,0	68.80	680	410	730	185
100	80,0	86.00	680	410	730	220
150	120,0	129.00	820	660	840	320
200	160,0	172.00	820	660	840	345
300	240,0	268.00	820	660	840	415

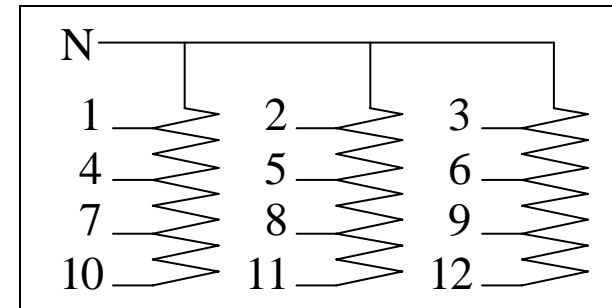
We recommend to select the total power of the autotransformers considering a 20% margin of the total power consumption to avoid damages due to sudden increase of the rating such as inrush current of a motor, a momentary short circuit, voltage drops etc.

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ELECTRIC DIAGRAM:



**THREE PHASE CONNECTION DIAGRAM**

Input @ 50/60Hz	Connect wires marked	Output @ 50/60Hz	Connect wires marked
220V	1 – 2 – 3	480V	10 – 11 – 12
380V	4 – 5 – 6	460V	7 – 8 – 9
460V	7 – 8 – 9	380V	4 – 5 – 6
480V	10- 11 – 12	220V	1 – 2 – 3

**SINGLE PHASE OUTPUT CONNECTION DIAGRAM**

127V	N-1 or N-2 or N-3
220V	N-4 or N-5 or N-6
266V	N-7 or N-8 or N-9
277V	N-10 or N-11 or N12

**NEVER CONNECT NEUTRAL ON INPUT**

**WITH SINGLE PHASE OUTPUT CONNECTION NEVER CONNECT A LOAD TO A SINGLE OUTPUT OVER 1/3 OF THE RATED POWER**

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