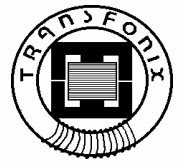
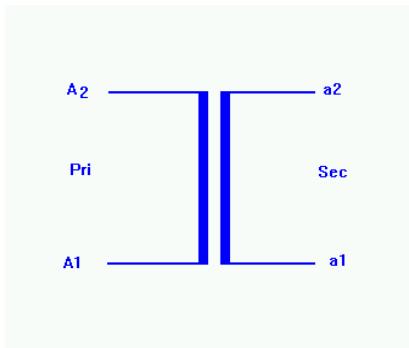


TRANSFORMERS



TRANSFONIX LTD

Isolating & Control
Lighting for Halogen lamps
For Swimming pool lightings
Autotransformers 1-phase
Isolating transformers
Audio transformers
Transformers for Inverters
Portable tool Transform.-Class II
3-Phase Autotransformers
3-Phase Motor Starting Auto
Other products



TRANSFONIX LTD

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OUR VARIOUS CATEGORIES

Our standard range covers almost all the LINE VOLTAGES from 110 to 480V within the following categories:

A - Single phase

- 101 - Isolating & Control for panel mounting.
- 102 - Lighting, providing low voltage for halogen lamps.
- 103 - Transformers for swimming pool lighting.
- 104 - Isolation 240 to 240V, providing isolation from the mains
- 106 - Autotransformers, step up & step down.
- 107 - Audio Transformers.
- 108 - Transformers for Inverters.
- 109 - Portable class II transformers
- 110 - Power transformers 1-phase

B - Three phase

- 301 - Power transformers 3-phase
- 302 - Autotransformers 3-phases
- 303 - Motor Starting Autotransformers.

C Others

- Custom-built transformers upon customers requirements
- Other products

FREQUENCY OF SUPPLY

Our Transformers are designed for 50 Hz but may operate also at 60 Hz without any damage.

MOUNTING STYLES

Mounting style is the way to assemble the basic parts of the transformer including means of connection of the winding ends to the external circuits.

Basic Style includes all the common parts of the Transformer such as core, coils and assembling parts but not including the kind of terminals used for connection to the external circuits.

Finished Style includes the Basic style plus the kind of Terminals or other means used to connect the windings to the external circuits.

Although each transformer type may correspond to several styles, we refer only to the main style, or to the most popular one. If this style does not fit to a certain case, the Customer may ask for another style.

Because of the large number of finished styles it's not possible to include all of them in this catalogue but we show a large number of ordinary ones.

NOS CATEGORIES PRINCIPALES

Nos series standard couvrent toute la gamme de voltages, depuis 110V jusqu' à 480V dans les categories suivantes:

A - Monophasés

- Transformateurs d' isolement & Contrôle pour tableaux d' energie
- Transformateurs très basse tension pour lampes halogenes
- Transformateurs pour éclairage des piscines
- Transformateurs d' Isolement
- Autotransformateurs monophasés
- Transformateurs Audio
- Transformateurs pour inverter
- Transformateurs de securité portables pour chantiers, class II
- Transformateurs de puissance 1-phase

B - Triphasés

- Transformateurs de puissance 3-phase
- Autotransformateurs triphasés
- Autotransformateurs triphasés pour demurrage des moteurs

C Autres

- Transformateurs monophasés et triphasés, conçus et realises sur demande du client
- Autres produits

FREQUENCE

Nos transformateurs sont fabriqués pour 50 Hz mais peuvent fonctionner aussi à 60 Hz sans problème.

STYLES DE MONTAGE

Style de montage est la façon d' assembler les parties du transformateur y compris les moyens de connection des fils émaillés aux circuits exerieurs.

Le **style de base** comprend toutes les parties essentielles du transformateur , comme c' est le noyau, les bobinages et parties d' assemblage, mais, sans inclure les types de terminaisons utilisées pour la connection aux circuits exterieurs.

Le style final comprend le style de base et en plus le type des terminaisons pour la connection des fils émaillés aux circuits exterieurs.

Bien que un transformateur peut correspondre à divers styles, nous nous référons seulement aux styles les plus courants. Si pour certains cas ces styles ne conviennent pas, le client peut suggerer un autre type de montage.

A cause du grand nombre des styles c' est ne pas possible de les presenter tous, mais, nous montrons un grand nombre de styles

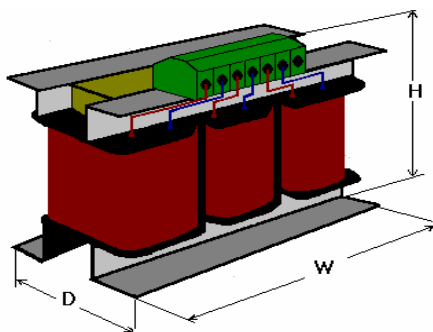
DIMENSIONS

All dimensions are expressed in centimeters (cm) in the order:

W x D x H

(WIDTH x DEPTH x HEIGHT)

The dimensions cover the total brut space of the transformer including connectors or additional parts mounted on it.



QUALITY STANDARDS

Our transformers are designed to comply with the following EUROPEAN STANDARDS Specifications:

BS EN 61558-1: 1998
BS EN 61558-2-2:1998
BS171 - 1978
BS EN 60947-4-1: 1992

RELIABILITY TO OVERLOAD SITUATIONS

Our transformers may deliver 200% load for one half-hour, 150% for one hour and 125% load for a 4 hours period without being damaged.

ordinaires.

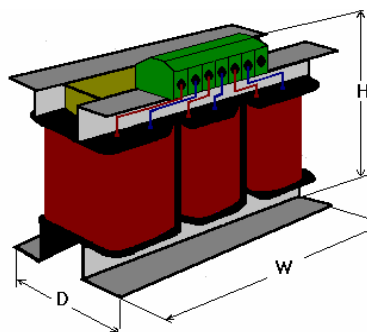
DIMENSIONS

Toutes les dimensions sont exprimées en centimetres (cm) dans l'ordre

W x D x H

(LARGEUR x PROFONDEUR x HAUTEUR)

Les dimensions couvrent tout le volume brut du Transformateur, y compris les connecteurs et toute autre pièce faisant partie du transfo.



NORMES DE QUALITE

Nos transformateurs sont conçus por répondre aux exigences des norms suivante:

BS EN 61558-1: 1998
BS EN 61558-2-2:1998
BS171 - 1978
BS EN 60947-4-1: 1992

RELIABILITY TO OVERLOAD SITUATIONS

Nos transformateurs peuvent delivber un courant à 200% du normal pour une demi-heure, ou 150% pour une heure et 125% pour 4 heures.sans danger grave.

STYLES VIEW

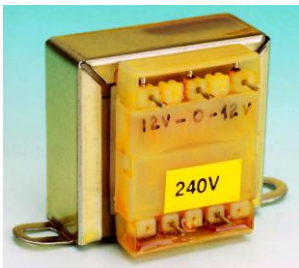
In the following style groups we show the basic style and the resulting finished styles, with codes and descriptions.

MAIN CATEGORIES

GROUP 1

=====

Basic style 01 With "D" Bracket



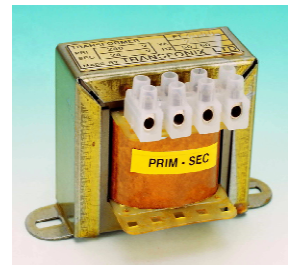
Code: 01-0101
for P.C.B.
mounting



Code: 01-0202
With solder
tags



Code: 01-0303
With leads



Code: 01-0404
With PVC
connectors

GROUP 2

=====

Basic style 02 With "L" Angles



Code: 02-0202
With solder
tags

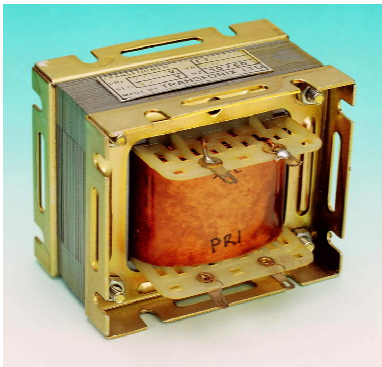


Code: 02-0404
With PVC
connectors

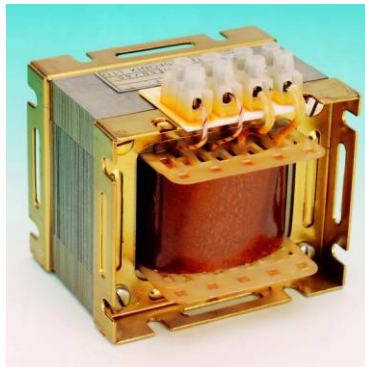
GROUP 3

=====

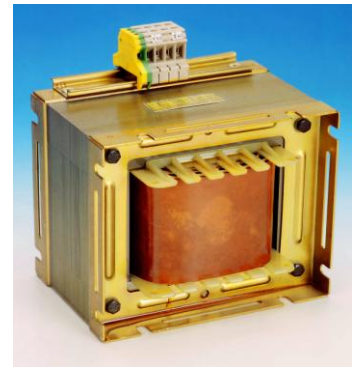
Basic style 03 With Frames



Code: 03-0202
With solder tags



Code: 03-0404
With PVC connectors



Code: 03-0606
With Terminals

GROUP 4

=====

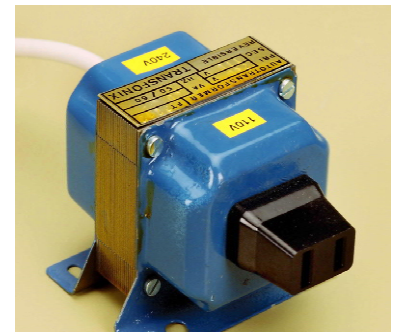
Basic style 04, With Covers



Code: 04-1010
In: 3-core PVC cable
Out: 3-core PVC cable



Code: 04-0404
With PVC
connectors



Code: 04-1007
In: 3-core PVC cable,
Out: 2 ways American socket



Code: 04-1008
In: 3-core PVC cable
Out: 3-ways American socket



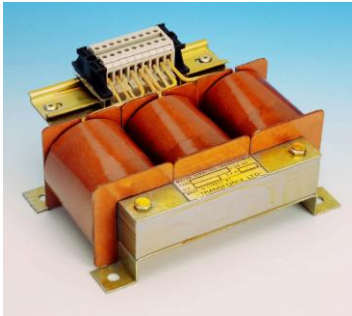
Code: 04-1009
In: 3-core PVC cable
Out: PVC connectors with
metal cover



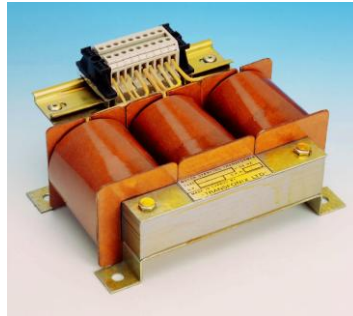
Code: 04-1012
In: 3-core PVC cable
Out: Fuse-block

GROUP 5
3-Phase
=====

Basic style 05
Sideways mounting



Style: 05-0606
With Terminals



Style: 05-0404
With PVC connectors

GROUP 7
=====

Basic style 07
Miniature



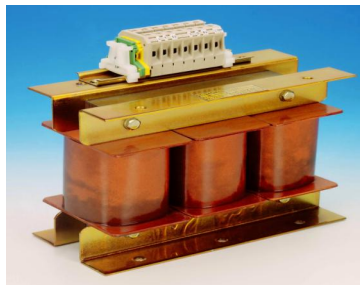
Style: 07-0101
With pins, for PCB mounting

GROUP 6 3-Phases
=====

Basic style 06
Upright mounting



Code: 06-0404
With PVC connectors



06-0606
With Terminals



06-1616
With screws

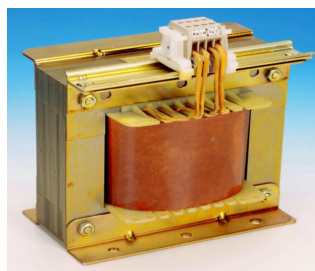
GROUP 8

1-Phase

Basic style 08 With "V" brackets



Style: 08-0404
With PVC connectors

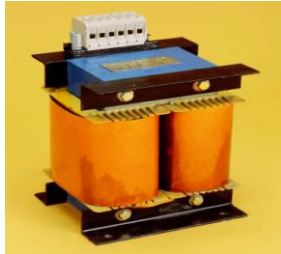


Style 08-0606
With Terminals

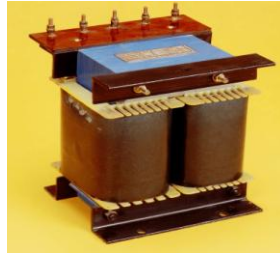


Style 08-1616
With screws

GROUP 9
1-phase
 UI Type,
 with “V” brackets



09-0606
 With Terminals



09-1616
 With screws

GROUP 10
1-phase
 For rail mounting



Style 10-0505 Front view
 With speedfix terminals
 for symmetrical rail
 mounting



Style 10-0505 Bottom view
 With speedfix terminals for
 symmetrical rail mounting

FOR PORTABLE TOOL TRANSFORMERS – CLASS II



Full isolated in polycarbonate
 enclosures for portable tools

HOW TO SELECT	COMMENT SÉLECTIONNER
- Find the category to which your transformer belongs. - Determine - the load (VA or KVA) - the line voltage - the output voltage (the voltage on the load) - the phases number & frequency - Refer to the tables under the above category and select the transformer's code having coordinates the corresponding power in VA and the output voltage in VOLT. - If you require details such as style, weight or dimensions, then write down the mechanical code and refer to the mechanical magnitudes table at the last page, to find this information. - Make your inquiry describing completely the items required, or, giving at least the reference code of the Transformer. - If you require a style other than that contained in the table then refer to the styles	- Trouver la catégorie dans laquelle appartient votre transfo. - Déterminer - la charge (VA ou KVA) - le voltage du réseau - la tension de sortie (tension sur la charge) - le nombre de phases & fréquence - Se référer aux tableaux sous les catégories plus haut et sélectionner le code du transfo ayant comme coordonnées la puissance correspondante du transfo (VA), et la tension de sortie en VOLT - Si vous cherchez des renseignements concernant le style, le poids ou les dimensions, alors, vous écrivez le code mécanique à droite du tableau et se référer à la dernière page du catalogue pour trouver l'information désirée. - Faites votre demande en décrivant complètement le transfo désiré ou en donnant au moins son code de référence. - Si vous désirez un style autre que celui proposé dans le catalogue, alors se référer au tableau des styles.
<u>NOTE:</u> The above mode of selection is valid for transformers falling within the following categories: Control transformers Isolation Transformers Audio transformers For the other categories, mention about mechanical data is included in the same table containing the electrical data.	<u>NOTE:</u> Le mode de sélection plus haut est valable pour les catégories suivantes: Transformateurs de contrôle Transformateurs d'isolement Transformateurs audio Pour les autres catégories, mention sur les données mécaniques est faite dans les mêmes tableaux des données électriques.
<u>Example of selection.</u> <u>Ex. 1</u> You require a control transformer 100VA, 1 phase, 220V line and 24V output: The code to select is "FT10940" and the mechanical code is "00154-03-0404". The style code is "03-0404", the weight is 1.8 Kilos and dimensions are 9x8.5x9 cm <u>Ex. 2</u> You require a single phase autotransformer 240/110V, 1000VA: You select "FT24755", mech. code "0305-03-0404" style "03-0404", weight 6.9 Kilos and dimensions 140x126x134.	<u>Example de sélection.</u> <u>Ex. 1</u> Vous avez besoin d'un transformateur de contrôle de 100 VA, monophasé, tension secteur 220 Volts, et, 24 Volts tension de sortie. Le code transfo à sélectionner est "FT10940" et le code mécanique est 00154-03-0404". Le style proposé est "03-0404", le poids est environ 1.8 Kgr. Et les dimensions 9 x 8,5 x 9 cm. <u>Ex. 2</u> Vous avez besoin d'un auto-transfo monophasé 240/110V, 1000VA. Vous sélectionner "FT24755", code mécanique "0305-03-0404", style "03-0404" le poids est 6.9 Kgr et dimensions 140 x 126 x 134 cm..

CONTROL TRANSFORMERS FOR PANEL MOUNTING

- Compliance with **BS EN 61558-2-2:1998**
 - Suitable for industrial & domestic applications
 - Class E insulation
 - Operation at 40° C in ambient temperature with temperature rise 85° C
 - Insulation resistance >5 Megohms for the insulation between input & output windings and 2 Megohms for other insulation, the measurement being made at 500V DC.
 - Flash-test 2000V RMS windings & other parts and 4000V between input & output windings.
 - 50/60Hz frequency operation.
- May be provided with electrostatic shield between input & output windings

CONTROL TRANSFORMERS				
Input 240 V		Output 12 V		
VA	Type	Style	Weight (Kgr)	Dimensions (mm)
20	FT13000	01-0404	0.5	85x55x50
25	FT13005	01-0404	0.6	85x60x50
30	FT13010	01-0404	0.7	85x65x50
40	FT13015	03-0404	1.0	80x60x80
50	FT13020	03-0404	1.2	80x65x80
60	FT13025	03-0404	1.4	80x70x80
70	FT13030	03-0404	1.5	80x75x80
80	FT13035	03-0404	1.6	87x80x90
100	FT13040	03-0404	1.8	87x85x90
120	FT13045	03-0404	2.0	87x90x90
150	FT13050	03-0404	2.4	100x85x100
200	FT13055	03-0404	2.9	100x95x100
250	FT13060	03-0404	3.3	110x90x120
300	FT13065	03-0404	3.9	110x100x120
350	FT13070	03-0404	4.6	110x110x120
400	FT13075	03-0404	5.0	130x110x130
450	FT13080	03-0404	5.8	130x120x130
500	FT13085	03-0404	6.8	130x130x130
Table 1-a				

CONTROL TRANSFORMERS					
Power VA	110V to 24V	120V to 24V	127V to 24V	127V to 48V	208V to 24V
20	FT10000	FT10150	FT10300	FT10450	FT10600
25	FT10005	FT10155	FT10305	FT10455	FT10605
30	FT10010	FT10160	FT10310	FT10460	FT10610
40	FT10015	FT10165	FT10315	FT10465	FT10615
50	FT10020	FT10170	FT10320	FT10470	FT10620
60	FT10025	FT10175	FT10325	FT10475	FT10625
70	FT10030	FT10180	FT10330	FT10480	FT10630
80	FT10035	FT10185	FT10335	FT10485	FT10635
100	FT10040	FT10190	FT10340	FT10490	FT10640
120	FT10045	FT10195	FT10345	FT10495	FT10645
150	FT10050	FT10200	FT10350	FT10500	FT10650
200	FT10055	FT10205	FT10355	FT10505	FT10655
250	FT10060	FT10210	FT10360	FT10510	FT10660
300	FT10065	FT10215	FT10365	FT10515	FT10665
350	FT10070	FT10220	FT10370	FT10520	FT10670
400	FT10075	FT10225	FT10375	FT10525	FT10675
450	FT10080	FT10230	FT10380	FT10530	FT10680
500	FT10085	FT10235	FT10385	FT10535	FT10685
600	FT10090	FT10240	FT10390	FT10540	FT10690
700	FT10095	FT10245	FT10395	FT10545	FT10695
750	FT10100	FT10250	FT10400	FT10550	FT10700
800	FT10105	FT10255	FT10405	FT10555	FT10705
900	FT10110	FT10260	FT10410	FT10560	FT10710
1000	FT10115	FT10265	FT10415	FT10565	FT10715
1500	FT10120	FT10270	FT10420	FT10570	FT10720
2000	FT10125	FT10275	FT10425	FT10575	FT10725
2500	FT10130	FT10280	FT10430	FT10580	FT10730
3000	FT10135	FT10285	FT10435	FT10585	FT10735
4000	FT10140	FT10290	FT10440	FT10590	FT10740
5000	FT10145	FT10295	FT10445	FT10595	FT10745
Table 1-b					

CONTROL TRANSFORMERS					
POWER VA ↓	220V TO 24V	220V TO 48V	220V TO 110V	220V TO 120V	220V TO 127V
20	FT10900	FT11050	FT11200	FT11350	FT11500
25	FT10905	FT11055	FT11205	FT11355	FT11505
30	FT10910	FT11060	FT11210	FT11360	FT11510
40	FT10915	FT11065	FT11215	FT11365	FT11515
50	FT10920	FT11070	FT11220	FT11370	FT11520
60	FT10925	FT11075	FT11225	FT11375	FT11525
70	FT10930	FT11080	FT11230	FT11380	FT11530
80	FT10935	FT11085	FT11235	FT11385	FT11535
100	FT10940	FT11090	FT11240	FT11390	FT11540
120	FT10945	FT11095	FT11245	FT11395	FT11545
150	FT10950	FT11100	FT11250	FT11400	FT11550
200	FT10955	FT11105	FT11255	FT11405	FT11555
250	FT10960	FT11110	FT11260	FT11410	FT11560
300	FT10965	FT11115	FT11265	FT11415	FT11565
350	FT10970	FT11120	FT11270	FT11420	FT11570
400	FT10975	FT11125	FT11275	FT11425	FT11575
450	FT10980	FT11130	FT11280	FT11430	FT11580
500	FT10985	FT11135	FT11285	FT11435	FT11585
600	FT10990	FT11140	FT11290	FT11440	FT11590
700	FT10995	FT11145	FT11295	FT11445	FT11595
750	FT11000	FT11150	FT11300	FT11450	FT11600
800	FT11005	FT11155	FT11305	FT11455	FT11605
900	FT11010	FT11160	FT11310	FT11460	FT11610
1000	FT11015	FT11165	FT11315	FT11465	FT11615
1500	FT11020	FT11170	FT11320	FT11470	FT11620
2000	FT11025	FT11175	FT11325	FT11475	FT11625
2500	FT11030	FT11180	FT11330	FT11480	FT11630
3000	FT11035	FT11185	FT11335	FT11485	FT11635
4000	FT11040	FT11190	FT11240	FT11490	FT11640
5000	FT11045	FT11195	FT11345	FT11495	FT11645
Table 1-c					

CONTROL TRANSFORMERS					
POWER VA ↓	230V TO 24V	230V TO 110V	240V TO 24V	240V TO 48V	240V TO 110V
20	FT11800	FT11950	FT14350	FT16000	FT17050
25	FT11805	FT11955	FT14355	FT16005	FT17055
30	FT11810	FT11960	FT14360	FT16010	FT17060
40	FT11815	FT11965	FT14365	FT16015	FT17065
50	FT11820	FT11970	FT14370	FT16020	FT17070
60	FT11825	FT11975	FT14375	FT16025	FT17075
70	FT11830	FT11980	FT14380	FT16030	FT17080
80	FT11835	FT11985	FT14385	FT16035	FT17085
100	FT11840	FT11990	FT14390	FT16040	FT17090
120	FT11845	FT11995	FT14395	FT16045	FT17095
150	FT11850	FT12000	FT14400	FT16050	FT17100
200	FT11855	FT12005	FT14405	FT16055	FT17105
250	FT11860	FT12010	FT14410	FT16060	FT17110
300	FT11865	FT12015	FT14415	FT16065	FT17115
350	FT11870	FT12020	FT14420	FT16070	FT17120
400	FT11875	FT12025	FT14425	FT16075	FT17125
450	FT11880	FT12030	FT14430	FT16080	FT17130
500	FT11885	FT12035	FT14435	FT16085	FT17135
600	FT11890	FT12040	FT14440	FT16090	FT17140
700	FT11895	FT12045	FT14445	FT16095	FT17145
750	FT11900	FT12050	FT14450	FT16100	FT17150
800	FT11905	FT12055	FT14455	FT16105	FT17155
900	FT11910	FT12060	FT14460	FT16110	FT17160
1000	FT11915	FT12065	FT14465	FT16115	FT17165
1500	FT11920	FT12070	FT14470	FT16120	FT17170
2000	FT11925	FT12075	FT14475	FT16125	FT17175
2500	FT11930	FT12080	FT14480	FT16130	FT17180
3000	FT11935	FT12085	FT14485	FT16135	FT17185
4000	FT11940	FT12090	FT14490	FT16140	FT17190
5000	FT11945	FT12095	FT14495	FT16145	FT17195
Table 1-d					

CONTROL TRANSFORMERS					
POWER VA ↓	240V to 120V	240V to 127V	265V to 24V	265V to 110V	265V TO 220V
20	FT17500	FT17650	FT19300	FT19450	FT19600
25	FT17505	FT17655	FT19305	FT19455	FT19605
30	FT17510	FT17660	FT19310	FT19460	FT19610
40	FT17515	FT17665	FT19315	FT19465	FT19615
50	FT17520	FT17670	FT19320	FT19470	FT19620
60	FT17525	FT17675	FT19325	FT19475	FT19625
70	FT17530	FT17680	FT19330	FT19480	FT19630
80	FT17535	FT17685	FT19335	FT19485	FT19635
100	FT17540	FT17890	FT19340	FT19490	FT19640
120	FT17545	FT17695	FT19345	FT19495	FT19645
150	FT17550	FT17700	FT19350	FT19500	FT19650
200	FT17555	FT17705	FT19355	FT19505	FT19655
250	FT17560	FT17710	FT19360	FT19510	FT19660
300	FT17565	FT17715	FT19365	FT19515	FT19665
350	FT17570	FT17720	FT19370	FT19520	FT19670
400	FT17575	FT17725	FT19375	FT19525	FT19675
450	FT17580	FT17730	FT19380	FT19530	FT19680
500	FT17585	FT17735	FT19385	FT19535	FT19685
600	FT17590	FT17740	FT19390	FT19540	FT19690
700	FT17595	FT17745	FT19395	FT19545	FT19695
750	FT17600	FT17750	FT19400	FT19550	FT19700
800	FT17605	FT17755	FT19405	FT19555	FT19705
900	FT17610	FT17760	FT19410	FT19560	FT19710
1000	FT17615	FT17765	FT19415	FT19565	FT19715
1500	FT17620	FT17770	FT19420	FT19570	FT19720
2000	FT17625	FT17775	FT19425	FT19575	FT19725
2500	FT17630	FT17780	FT19430	FT19580	FT19730
3000	FT17635	FT17785	FT19435	FT19585	FT19735
4000	FT17640	FT17790	FT19440	FT19590	FT19740
5000	FT17645	FT17795	FT19445	FT19595	FT19745
Table 1-e					

CONTROL TRANSFORMERS					
POWER VA ↓	277V TO 24V	277V TO 48V	277V TO 110V	277V TO 120V	277V TO 127V
20	FT19750	FT19900	FT20050	FT20200	FT20350
25	FT19755	FT19905	FT20055	FT20205	FT20355
30	FT19760	FT19910	FT20060	FT20210	FT20360
40	FT19765	FT19915	FT20065	FT20215	FT20365
50	FT19770	FT19920	FT20070	FT20220	FT20370
60	FT19775	FT19925	FT20075	FT20225	FT20375
70	FT19780	FT19930	FT20080	FT20230	FT20380
80	FT19785	FT19935	FT20085	FT20235	FT20385
100	FT19790	FT19940	FT20090	FT20240	FT20390
120	FT19795	FT19945	FT20095	FT20245	FT20395
150	FT19800	FT19950	FT20100	FT20250	FT20400
200	FT19805	FT19955	FT20105	FT20255	FT20405
250	FT19810	FT19960	FT20110	FT20260	FT20410
300	FT19815	FT19965	FT20115	FT20265	FT20415
350	FT19820	FT19970	FT20120	FT20270	FT20420
400	FT19825	FT19975	FT20125	FT20275	FT20425
450	FT19830	FT19980	FT20130	FT20280	FT20430
500	FT19835	FT19985	FT20135	FT20285	FT20435
600	FT19840	FT19990	FT20140	FT20290	FT20440
700	FT19845	FT19995	FT20145	FT20295	FT20445
750	FT19850	FT20000	FT20150	FT20300	FT20450
800	FT19855	FT20005	FT20155	FT20305	FT20455
900	FT19860	FT20010	FT20160	FT20310	FT20460
1000	FT19865	FT20015	FT20165	FT20315	FT20465
1500	FT19870	FT20020	FT20170	FT20320	FT20470
2000	FT19875	FT20025	FT20175	FT20325	FT20475
2500	FT19880	FT20030	FT20180	FT20330	FT20480
3000	FT19885	FT20035	FT20185	FT20335	FT20485
4000	FT19890	FT20040	FT20190	FT20340	FT20490
5000	FT19895	FT20045	FT20195	FT20345	FT20495
Table 1-f					

CONTROL TRANSFORMERS					
POWER VA ↓	277V TO 220V	277V TO 240V	380V TO 24V	380V TO 48V	380V TO 110V
20	FT20500	FT20650	FT20950	FT21100	FT21250
25	FT20505	FT20655	FT20955	FT21105	FT21255
30	FT20510	FT20660	FT20960	FT21110	FT21260
40	FT20515	FT20665	FT20965	FT21115	FT21265
50	FT20520	FT20670	FT20970	FT21120	FT21270
60	FT20525	FT20675	FT20975	FT21125	FT21275
70	FT20530	FT20680	FT20980	FT21130	FT21280
80	FT20535	FT20685	FT20985	FT21135	FT21285
100	FT20540	FT20690	FT20990	FT21140	FT21290
120	FT20545	FT20695	FT20995	FT21145	FT21295
150	FT20550	FT20700	FT21000	FT21150	FT21300
200	FT20555	FT20705	FT21005	FT21155	FT21305
250	FT20560	FT20710	FT21010	FT21160	FT21310
300	FT20565	FT20715	FT21015	FT21165	FT21315
350	FT20570	FT20720	FT21020	FT21170	FT21320
400	FT20575	FT20725	FT21025	FT21175	FT21325
450	FT20580	FT20730	FT21030	FT21180	FT21330
500	FT20585	FT20735	FT21035	FT21185	FT21335
600	FT20590	FT20740	FT21040	FT21190	FT21340
700	FT20595	FT20745	FT21045	FT21195	FT21345
750	FT20600	FT20750	FT21050	FT21200	FT21350
800	FT20605	FT20755	FT21055	FT21205	FT21355
900	FT20510	FT20760	FT21060	FT21210	FT21360
1000	FT20615	FT20765	FT21065	FT21215	FT21365
1500	FT20620	FT20770	FT21070	FT21220	FT21370
2000	FT20625	FT20775	FT21075	FT21225	FT21375
2500	FT20630	FT20780	FT21080	FT21230	FT21380
3000	FT20635	FT20785	FT21085	FT21235	FT21385
4000	FT20640	FT20790	FT21090	FT21240	FT21390
5000	FT20645	FT20795	FT21095	FT21245	FT21395
Table 1-g					

CONTROL TRANSFORMERS					
POWER VA ↓	380V TO 120V	380V TO 127V	380V TO 220V	380V TO 240V	400V TO 220V
20	FT21550	FT21700	FT21850	FT22000	FT22150
25	FT21555	FT21705	FT21855	FT22005	FT22155
30	FT21560	FT21710	FT21860	FT22010	FT22160
40	FT21565	FT21715	FT21865	FT22015	FT22165
50	FT21570	FT21720	FT21870	FT22020	FT22170
60	FT21575	FT21725	FT21875	FT22025	FT22175
70	FT21580	FT21730	FT21880	FT22030	FT22180
80	FT21585	FT21735	FT21885	FT22035	FT22185
100	FT21590	FT21740	FT21890	FT22040	FT22190
120	FT21595	FT21745	FT21895	FT22045	FT22195
150	FT21600	FT21750	FT21900	FT22050	FT22200
200	FT21605	FT21755	FT21905	FT22055	FT22205
250	FT21610	FT21760	FT21910	FT22060	FT22210
300	FT21615	FT21765	FT21915	FT22065	FT22215
350	FT21620	FT21770	FT21920	FT22070	FT22220
400	FT21625	FT21775	FT21925	FT22075	FT22225
450	FT21630	FT21780	FT21930	FT22080	FT22230
500	FT21635	FT21785	FT21935	FT22085	FT22235
600	FT21640	FT21790	FT21940	FT22090	FT22240
700	FT21645	FT21795	FT21945	FT22095	FT22245
750	FT21650	FT21800	FT21950	FT22100	FT22250
800	FT21655	FT21805	FT21955	FT22105	FT22255
900	FT21660	FT21810	FT21960	FT22110	FT22260
1000	FT21665	FT21815	FT21965	FT22115	FT22265
1500	FT21670	FT21820	FT21970	FT22120	FT22270
2000	FT21675	FT21825	FT21975	FT22125	FT22275
2500	FT21680	FT21830	FT21980	FT22130	FT22280
3000	FT21685	FT21835	FT21985	FT22135	FT22285
4000	FT21690	FT21840	FT21990	FT22140	FT22290
5000	FT21695	FT21845	FT21995	FT22145	FT22295
Table 1-h					

CONTROL TRANSFORMERS					
POWER VA ↓	400V to 230V	400V to 240V	415V to 24V	415V to 48V	415V to 110V
20	FT22300	FT22450	FT22750	FT23050	FT23200
25	FT22305	FT22455	FT22755	FT23055	FT23205
30	FT22310	FT22460	FT22760	FT23060	FT23210
40	FT22315	FT22465	FT22765	FT23065	FT23215
50	FT22320	FT22470	FT22770	FT23070	FT23220
60	FT22325	FT22475	FT22775	FT23075	FT23225
70	FT22330	FT22480	FT22780	FT23080	FT23230
80	FT22335	FT22485	FT22785	FT23085	FT23235
100	FT22340	FT22490	FT22790	FT23090	FT23240
120	FT22345	FT22495	FT22795	FT23095	FT23245
150	FT22350	FT22500	FT22800	FT23100	FT23250
200	FT22355	FT22505	FT22805	FT23105	FT23255
250	FT22360	FT22510	FT22810	FT23110	FT23260
300	FT22365	FT22515	FT22815	FT23115	FT23265
350	FT22370	FT22520	FT22820	FT23120	FT23270
400	FT22375	FT22525	FT22825	FT23125	FT23275
450	FT22380	FT22530	FT22830	FT23130	FT23280
500	FT22385	FT22535	FT22835	FT23135	FT23285
600	FT22390	FT22540	FT22840	FT23140	FT23290
700	FT22395	FT22545	FT22845	FT23145	FT23295
750	FT22400	FT22550	FT22850	FT23150	FT23300
800	FT22405	FT22555	FT22855	FT23155	FT23305
900	FT22410	FT22560	FT22860	FT23160	FT23310
1000	FT22415	FT22565	FT22865	FT23165	FT23315
1500	FT22420	FT22570	FT22870	FT23170	FT23320
2000	FT22425	FT22575	FT22875	FT23175	FT23325
2500	FT22430	FT22580	FT22880	FT23180	FT23330
3000	FT22435	FT22585	FT22885	FT23185	FT23335
4000	FT22440	FT22590	FT22890	FT23190	FT23340
5000	FT22445	FT22595	FT22895	FT23195	FT23345
Table 1-i					

CONTROL TRANSFORMERS					
POWER VA ↓	415V to 220V	415V to 230V	415V to 240V	460V to 24V	460V to 240V
20	FT23500	FT23650	FT23800	FT24250	FT24400
25	FT23505	FT23655	FT23805	FT24255	FT24405
30	FT23510	FT23660	FT23810	FT24260	FT24410
40	FT23515	FT23665	FT23815	FT24265	FT24415
50	FT23520	FT23670	FT23820	FT24270	FT24420
60	FT23525	FT23675	FT23825	FT24275	FT24425
70	FT23530	FT23680	FT23830	FT24280	FT24430
80	FT23535	FT23685	FT23835	FT24285	FT24435
100	FT23540	FT23690	FT23840	FT24290	FT24440
120	FT23545	FT23695	FT23845	FT24295	FT24445
150	FT23550	FT23700	FT23850	FT24300	FT24450
200	FT23555	FT23705	FT23855	FT24305	FT24455
250	FT23560	FT23710	FT23860	FT24310	FT24460
300	FT23565	FT23715	FT23865	FT24315	FT24465
350	FT23570	FT23720	FT23870	FT24320	FT24470
400	FT23575	FT23725	FT23875	FT24325	FT24475
450	FT23580	FT23730	FT23880	FT24330	FT24480
500	FT23585	FT23735	FT23885	FT24335	FT24485
600	FT23590	FT23740	FT23890	FT24340	FT24490
700	FT23595	FT23745	FT23895	FT24345	FT24495
750	FT23600	FT23750	FT23900	FT24350	FT24500
800	FT23605	FT23755	FT23905	FT24355	FT24505
900	FT23610	FT23760	FT23910	FT24360	FT24510
1000	FT23615	FT23765	FT23815	FT24365	FT24515
1500	FT23620	FT23770	FT23920	FT24370	FT24520
2000	FT23625	FT23775	FT23925	FT24375	FT24525
2500	FT23630	FT23780	FT23930	FT24380	FT24530
3000	FT23635	FT23785	FT23935	FT24385	FT24535
4000	FT23640	FT23790	FT23940	FT24390	FT24540
5000	FT23645	FT23795	FT23945	FT24395	FT24545
Table 1-j					

CONTROL TRANSFORMERS					
POWER VA ↓	480V to 24V	480V to 110V	480V to 120V	480V to 127V	480V to 220V
20	FT24550	FT24700	FT24850	FT25000	FT25150
25	FT24555	FT24705	FT24855	FT25005	FT25155
30	FT24560	FT24710	FT24860	FT25010	FT25160
40	FT24565	FT24715	FT24865	FT25015	FT25165
50	FT24570	FT24720	FT24870	FT25020	FT25170
60	FT24575	FT24725	FT24875	FT25025	FT25175
70	FT24580	FT24730	FT24880	FT25030	FT25180
80	FT24585	FT24735	FT24885	FT25035	FT25185
100	FT24590	FT24740	FT24890	FT25040	FT25190
120	FT24595	FT24745	FT24895	FT25045	FT25195
150	FT24600	FT24750	FT24900	FT25050	FT25200
200	FT24605	FT24755	FT24905	FT25055	FT25205
250	FT24610	FT24760	FT24910	FT25060	FT25210
300	FT24615	FT24765	FT24915	FT25065	FT25215
350	FT24620	FT24770	FT24920	FT25070	FT25220
400	FT24625	FT24775	FT24925	FT25075	FT25225
450	FT24630	FT24780	FT24930	FT25080	FT25230
500	FT24635	FT24785	FT24935	FT25085	FT25235
600	FT24640	FT24790	FT24940	FT25090	FT25240
700	FT24645	FT24795	FT24945	FT25095	FT25245
750	FT24650	FT24800	FT24950	FT25100	FT25250
800	FT24655	FT24805	FT24955	FT25105	FT25255
900	FT24660	FT24810	FT24960	FT25110	FT25260
1000	FT24665	FT24815	FT24965	FT25115	FT25265
1500	FT24670	FT24820	FT24970	FT25120	FT25270
2000	FT24675	FT24825	FT24975	FT25125	FT25275
2500	FT24680	FT24830	FT24980	FT25130	FT25280
3000	FT24685	FT24835	FT24985	FT25135	FT25285
4000	FT24690	FT24840	FT24990	FT25140	FT25290
5000	FT24695	FT24845	FT24995	FT25145	FT25295
Table 1-k					

Lighting Transformers (For Halogen Lamps)

- Specially designed to provide low voltage supply (12V) for Halogen lamps
- Transformers under this category are of closed type and provided with a fuse-bloc from 2 to 8 ways so that each lamp is supplied through its own fuse. They may be also of open type upon request

INPUT 240V / OUTPUT 12V - CLOSED TYPE				
No. of 50W Lamps	VA	Kgr	Dimensions (mm)	Closed type
1	60	1.3	90x120x70	FC26600
2	120	1.9	100x150x80	FC26605
3	180	2.5	110x160x100	FC26610
4	240	3.4	120x160x110	FC26615
5	300	4.1	140x120x160	FC26620
6	360	4.8	140x130x160	FC26625
7	420	5.5	140x140x160	FC26630
8	480	6.3	140x150x160	FC26635

Table 2-a

INPUT 240V / OUTPUT 12V – OPEN TYPE				
No. of 50W Lamps	VA	Kgr	Dimensions (mm)	Open Type
1	60	1.3	90x120x70	FT26600
2	120	1.9	100x150x80	FT26605
3	180	2.5	110x160x100	FT26610
4	240	3.4	120x160x110	FT26615
5	300	4.1	140x120x160	FT26620
6	360	4.8	140x130x160	FT26625
7	420	5.5	140x140x160	FT26630
8	480	6.3	140x150x160	FT26635

Table 2-b

TRANSFORMERS FOR SWIMMING POOL LIGHTING	Category No. 103
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- **Insulation class II**
- **Standards: BS EN 61558-1: 1998**
- **These Transformers, providing 12V in the range of 100 to 600 Watt are intended for use in Swimming Pool Lighting.**
- **They are of open style 08-0404 and may be offered within enclosure, or alone, to be mounted in a panel.**
- **Tapings may be provided at the output, only on request , in order to compensate the losses dues to different distances from the loads, or, for the supply of a unique lamp, the tapings may be at the input, in order to compensate the losses due to the distance.**

INPUT 240V / OUTPUT 12V ONLY				
Lamps	VA	Kgr	Dimensions (mm)	Open type
100W	120	1.9	90x80x90	FT08250
150W	180	2.6	100x90x100	FT08242
200W	240	3.5	110x90x110	FT08243
300W	360	5.0	120x100x130	FT07955
2x300W	720	8.6	150x120x150	FT08445
Table 3-a				

ISOLATION TRANSFORMERS

- Compliance with BS EN 61558-1: 1998
- There is no electrical connection between input & output windings.
- Suitable for industrial & domestic applications.
- Temperature class E.
- Insulation class II.
- Operation in surrounding temperature of 40° C with temperature rise of 80° C.
- May be provided with electrostatic shield between input & output windings.
- Insulation resistance > 5 Meghoms between input & output windings and >2 Meghoms for other insulation, measurement made at 500V DC.
- Flash test 2000V RMS between core & other parts and 4000V between input & output windings.
- 50/60 Hz frequency operation.

Isolation, Input 240V / Output (220-240)V - Open type With screen between input & output windings

Power (VA)	Weight (Kgr)	Dimensions (mm)	Regul. (%)	Type
250	4.1	112x100x113	8	FT26940
500	7.3	124x135x130	3.8	FT26945
750	9.7	154x124x153	2.9	FT26950
1000	12.0	185x118x180	2.6	FT26955
1500	16.4	185x143x180	2.3	FT26960
2000	21.0	185x170x180	2	FT26965
3000	33.0	240x180x260	1.7	FT26970
4000	40.0	240x190x260	1.5	FT26975
5000	46.0	240x210x260	1.3	FT26980

Table 4-a

Isolation, Input 240V / Output (220-240)V - Closed type With screen between input & output windings

Power VA	Weight (Kgr)	Dimensions (mm)	Regul. (%)	Type
250	4.1	121X150X096	8	FC26940
500	7.3	141X191X112	3.8	FC26945
750	9.7	167X204X130	2.9	FC26950
1000	12.0	180X202X155	2.6	FC26955
1500	16.4	180X226X155	2.3	FC26960
2000	21.0	180X251X155	2	FC26965

Table 4-b

AUTOTRANSFORMERS

Single Phase

- Compliance with BS171: 1972
- This kind of Transformer provides an economical means of transformation of the supply voltage, when isolation from the mains is not necessary.
- Suitable for industrial & domestic applications.
- Class E insulation
- Operation in surrounding temperature of 40° C max. with 80° C temperature rise.
- 50/60V frequency operation.

AUTOTRANSFORMERS Single Phase				
Autotransformers 240 to 100V 1phase - Reversible - Open type				
Power VA	Type	Style	Weight (Kgr)	Dimensions (mm)
40	FT28600	01-0404	0.6	90x60x53
70	FT28605	03-0404	1.0	79x58x81
100	FT28610	03-0404	1.3	79x67x81
150	FT28615	03-0404	1.8	87x75x91
200	FT28620	03-0404	2.2	87x85x91
250	FT28625	03-0404	2.6	99x82x100
300	FT28630	03-0404	2.9	99x87x100
400	FT28635	03-0404	3.8	112x97x113
500	FT28640	03-0404	4.5	112x102x113
600	FT28645	03-0404	5.1	140x99x134
750	FT28650	03-0404	6.1	140x115x134
1000	FT28655	03-0404	7.5	140x126x134
1250	FT28660	03-0404	8.5	154x110x153
1500	FT28665	03-0404	10.6	154x140x153
2000	FT28670	03-0404	13.7	185x131x178
2500	FT28675	03-0404	16.5	185x143x178
3000	FT28680	03-0404	18.5	185x150x190
3500	FT28685	03-0404	21.0	185x170x190
4000	FT28690	03-0404	23.0	185x180x190
5000	FT28695	03-0404	25.0	185x190x190
Table 6-a				

Autotransformers 240 to 100V 1phase-Reversible-Closed type				
Power VA	Type	Style	Weight (Kgr)	Dimensions (mm)
40	FC28600	04-1010	0.6	76x74x57
70	FC28605	04-1010	1.0	90x79x70
100	FC28610	04-1010	1.3	90x88x70
150	FC28615	04-1010	1.8	99x105x74
200	FC28620	04-1010	2.2	99x115x74
250	FC28625	04-1010	2.6	112x114x90
300	FC28630	04-1010	2.9	112x119x90
400	FC28635	04-1010	3.8	121x127x96
500	FC28640	04-1010	4.5	121x132x96
600	FC28645	04-1009	5.1	141x164x112
750	FC28650	04-1009	6.1	141x181x112
1000	FC28655	04-1009	7.5	141x191x112
1250	FC28660	04-1009	8.5	167x190x130
1500	FC28665	04-1009	10.6	167x220x130
2000	FC28670	04-1009	13.7	180x212x155
2500	FC28675	04-1009	16.5	180x228x155
3000	FC28680	04-1009	18.5	180x233x155
3500	FC28685	04-1009	21.0	180x253x155
4000	FC28690	04-1009	23.0	180x263x155
5000	FC28695	04-1009	25.0	180x273x155
Table 6-b				

Autotransformers 240 to 115V 1phase - Reversible - Open & Closed type				
Power VA	Weight (Kgr)	Dimensions (mm) Closed type	Open type	Closed type
40	0.60	75x84x55	FT07661	FC07661
100	0.96	90x95x70	FT06833	FC06833
150	1.77	100x111x75	FT06821	FC06821
200	1.86	100x113x75	FT08273	FC08273
250	2.49	100x128x75	FT07020	FC07020
300	2.50	110x120x90	FT06822	FC06822
400	3.17	110x133x90	FT07024	FC07024
500	3.66	120x137x95	FT07025	FC07025
600	4.45	120x149x95	FT06928	FC06928
750	4.79	120x154x95	FT08321	FC08321
1000	6.47	134x79x95	FT07969	FC08466
1250	7.31	134x89x95	FT08522	FC08522
1500	8.22	134x70x125	FT08369	FC08369
2000	10.99	134x90x125	FT07127	FC08257
2500	13.67	134x110x125	FT07023	FC08368
3000	14.57	180x200x150	FT08389	FC08389
3500	18.64	180x220x150	FT07280	FC07280
4000	18.53	180x260x150	FT08524	FC08524
5000	26.23	180x260x150	FT07279	FC07279
6000	26.32	180x260x150	FT08531	FC08531
Table 6-c				

Autotransformers 240 to 110V & 240 to 120V 1phase-Reversible-Open type					
Power VA	240V to 110V	240V to 120V	Style	Weight (Kgr)	Dimensions (mm)
40	FT28602	FT28700	01-0404	0.5	90x55x53
70	FT28607	FT28705	01-0404	0.8	90x69x53
100	FT28612	FT28710	03-0404	1.1	79x63x81
150	FT28617	FT28715	03-0404	1.5	87x70x91
200	FT28622	FT28720	03-0404	1.8	87x75x91
250	FT28627	FT28725	03-0404	2.1	87x85x91
300	FT28632	FT28730	03-0404	2.5	99x82x100
400	FT28637	FT28735	03-0404	3.2	99x92x100
500	FT28642	FT28740	03-0404	3.9	112x92x113
600	FT28647	FT28745	03-0404	4.4	140x92x134
750	FT28652	FT28750	03-0404	5.4	140x106x134
1000	FT28657	FT28755	03-0404	6.9	140x126x134
1250	FT28662	FT28760	03-0404	8.1	154x110x153
1500	FT28667	FT28765	03-0404	9.4	154x124x153
2000	FT28672	FT28770	03-0404	12.0	185x121x178
2500	FT28677	FT28775	03-0404	14.5	185x140x178
3000	FT28682	FT28780	03-0404	16.6	185x145x178
3500	FT28687	FT28785	03-0404	18.9	185x160x190
4000	FT28692	FT28790	03-0404	21.0	185x170x190
5000	FT28697	FT28795	03-0404	25.0	185x190x190

Table 6-d

Autotransformers 240 to 110V & 240 to 120V 1 phase-Reversible-Closed type					
Power VA	240V to 110V	240V to 120V	Style	Weight (Kgr)	Dimensions (mm)
40	FC28602	FC28700	04-1007	0.5	76x69x57
70	FC28607	FC28705	04-1007	0.8	76x83x57
100	FC28612	FC28710	04-1007	1.1	90x84x70
150	FC28617	FC28715	04-1008	1.5	99x100x74
200	FC28622	FC28720	04-1008	1.8	99x105x74
250	FC28627	FC28725	04-1008	2.1	99x115x74
300	FC28632	FC28730	04-1008	2.5	112x114x90
400	FC28637	FC28735	04-1008	3.2	112x124x90
500	FC28642	FC28740	04-1008	3.9	121x122x96
600	FC28647	FC28745	04-1008	4.4	141x156x112
750	FC28652	FC28750	04-1008	5.4	141x170x112
1000	FC28657	FC28755	04-1008	6.9	141x190x112
1250	FC28662	FC28760	04-1008	8.1	167x190x130
1500	FC28667	FC28765	04-1008	9.4	167x204x130
2000	FC28672	FC28770	04-1009	12.0	180x204x155
2500	FC28677	FC28775	04-1009	14.5	180x223x155
3000	FC28682	FC28780	04-1009	16.6	180x228x155
3500	FC28687	FC28785	04-1009	18.9	180x243x155
4000	FC28692	FC28790	04-1009	21.0	180x253x155
5000	FC28697	FC28795	04-1009	25.0	180x273x155

Table 6-e

Autotransformers 240 to 200V 1phase-Reversible-Open type				
Power VA	Type	Style	Weight (Kgr)	Dimensions (mm)
200	FT28900	01-0404	0.8	90x69x53
300	FT28910	03-0404	1.1	79x63x81
500	FT28920	03-0404	1.5	87x70x91
750	FT28930	03-0404	2.1	87x85x91
1000	FT28935	03-0404	2.9	99x87x100
1250	FT28940	03-0404	3.2	99x92x100
1500	FT28945	03-0404	3.8	112x97x113
2000	FT28950	03-0404	5.1	140x99x134
2500	FT28955	03-0404	5.4	140x106x134
3000	FT28960	03-0404	6.9	140x126x134
4000	FT28970	03-0404	8.8	154x119x153
5000	FT28975	03-0404	10.0	154x129x153
6000	FT28980	03-0404	12.0	185x121x178
7500	FT28985	03-0404	14.5	185x140x178
10000	FT28990	03-0404	18.5	185x150x178
Table 6-f				

Autotransformers 240 to 200V 1phase-Reversible-Closed type				
Power VA	Type	Style	Weight (Kgr)	Dimensions (mm)
200	FC28900	04-1010	0.8	76x83x57
300	FC28900	04-1010	1.1	90x84x70
500	FC28920	04-1010	1.5	99x100x74
750	FC28930	04-1010	2.1	99x115x74
1000	FC28935	04-1010	2.9	112x119x90
1250	FC28940	04-1010	3.2	112x124x90
1500	FC28945	04-1010	3.8	121x127x96
2000	FC28950	04-1009	5.1	141x156x112
2500	FC28955	04-1009	5.4	141x163x112
3000	FC28960	04-1009	6.9	141x183x112
4000	FC28970	04-1009	8.8	167x199x130
5000	FC28975	04-1009	10.0	167x209x130
6000	FC28980	04-1009	12.0	180x241x155
7500	FC28985	04-1009	14.5	180x260x155
10000	FC28990	04-1009	18.5	180x270x155
Table 6-g				

Autotransformers 240 to 220V 1phase-Reversible-Open type				
Power VA	Type	Style	Weight (Kgr)	Dimensions (mm)
200	FT29000	01-0404	0.5	90x55x53
300	FT29010	01-0404	0.7	90x64x53
500	FT29020	03-0404	1.0	79x58x81
750	FT29030	03-0404	1.3	79x67x81
1000	FT29035	03-0404	1.5	87x70x91
1250	FT29040	03-0404	1.9	87x80x91
1500	FT29045	01-0404	2.3	99x77x100
2000	FT29050	01-0404	2.9	99x87x100
2500	FT29055	03-0404	3.7	112x92x113
3000	FT29060	03-0404	4.2	112x97x113
4000	FT29070	03-0404	5.1	140x99x134
5000	FT29075	01-0404	6.4	140x115x134
6000	FT29080	01-0404	8.1	154x110x153
7500	FT29085	03-0404	9.0	154x119x153
10000	FT29090	03-0404	10.5	185x111x178
Table 6-h				

Autotransformers 240 to 220V 1phase-Reversible-Closed type				
Power VA	Type	Style	Weight (Kgr)	Dimensions (mm)
200	FC29000	04-1010	0.5	76x69x57
300	FC29010	04-1010	0.7	76x78x57
500	FC29020	04-1010	1.0	90x79x70
750	FC29030	04-1010	1.3	90x88x70
1000	FC29035	04-1010	1.5	99x100x74
1250	FC29040	04-1010	1.9	99x110x74
1500	FC29045	04-1010	2.3	112x109x90
2000	FC29050	04-1010	2.9	112x119x90
2500	FC29055	04-1010	3.7	121x122x96
3000	FC29060	04-1010	4.2	121x127x96
4000	FC29070	04-1009	5.1	141x164x112
5000	FC29075	04-1009	6.4	141x181x112
6000	FC29080	04-1009	8.1	167x225x130
7500	FC29085	04-1009	9.0	167x234x130
10000	FC29090	04-1009	10.5	180x231x155
Table 6-j				

AUDIO TRANSFORMERS						
Line matching (From Line to Speaker) From 100V line to 4 or 8 or 16 Ohms speaker						
Power Watt	4 OHMS	8 OHMS	16 OHMS	Mounting style	Weight Kgr	Dimensions (mm)
1	FT27000	FT27100	FT27200	01-0101	.080	51x31x30
2	FT27005	FT27105	FT27205	01-0101	.110	51x36x30
3	FT27010	FT27110	FT27210	01-0101	.140	61x35x36
4	FT27015	FT27115	FT27215	01-0101	.170	61x37x36
5	FT27020	FT27120	FT27220	01-0101	.200	64x35x38
8	FT27025	FT27125	FT27225	01-0101	.270	74x40x42
10	FT27030	FT27130	FT27230	01-0101	.320	74x44x42
15	FT27035	FT27135	FT27235	01-0102	.400	77x48x45
20	FT27040	FT27140	FT27240	01-0202	.500	90x55x53
25	FT27045	FT27145	FT27245	01-0202	.600	90x60x53
30	FT27050	FT27150	FT27250	01-0202	.700	90x64x53
40	FT27055	FT27155	FT27255	03-0404	1.000	79x58x81
50	FT27060	FT27160	FT27260	03-0404	1.200	79x63x81
60	FT27065	FT27165	FT27265	03-0404	1.300	79x67x81
80	FT27070	FT27170	FT27270	03-0404	1.500	87x70x91
100	FT27075	FT27175	FT27275	03-0404	1.800	87x75x91
150	FT27080	FT27180	FT27280	03-0404	2.600	99x82x100
200	FT27085	FT27185	FT27285	03-0404	3.300	99x97x100
300	FT27090	FT27190	FT27290	03-0404	4.100	112x102x113
400	FT27095	FT27195	FT27295	03-0404	5.700	124x134x130
Table 7-a						

Line matching with adjustable output (5 Tapps) From 100V line to 4 or 8 OHMS						
Max WATT	4 OHMS	8 OHMS	Output tappings (Watt)	Style	Kgr	Dimensions (mm)
4	FT27300	FT27350	0.25-0.5-1-2-4	01-0101	.170	61x37x36
8	FT27305	FT27355	0.5-1-2-4-8	01-0101	.270	74x40x42
16	FT27310	FT27360	1-2-4-8-16	01-0202	.500	90x55x53
32	FT27315	FT27365	2-4-8-16-32	01-0202	.700	90x64x63
Table 7-b						

**TRANSFORMERS
FOR INVERTERS**

Primary 2x11V / Secondary 220-240-260V

Power VA	Type	Style	Weight Kgr	Dimensions (mm)
50	FT27400	03-0404	1.3	79x67x81
75	FT27405	03-0404	1.7	87x75x91
100	FT27410	03-0404	2.0	87x80x91
150	FT27415	03-0404	3.2	99x92x100
200	FT27420	03-0404	4.0	112x100x113
250	FT27425	03-0404	4.5	112x105x113
300	FT27430	03-0404	4.9	124x105x130
400	FT27435	03-0404	6.4	124x125x130
500	FT27440	03-0404	7.3	124x135x130
750	FT27445	03-0404	10.5	154x129x153
1000	FT27450	03-0404	13.7	185x128x180
1500	FT27455	03-0404	18.5	185x147x180
2000	FT27460	03-0404	23.0	185x177x180

Table 8

PORTABLE TOOL TRANSFORMERS
Class II



Full isolated in polycarbonate
enclosures for portable tools

Portable tool transformers – Class II Input 240V – output 110V			
Power VA	Weight (Kgr)	Dimensions (mm)	Type
1000	7	17x17x22	99PT1000
1500	9	17x17x22	99PT1500
2000	11	20x20x27	99PT2000
2500	14	20x20x27	99PT2500
3000	17	20x20x27	99PT3000
3500	21	24x32x28	99PT3500
4000	21	24x32x28	99PT4000

Table 9

1-Phase POWER TRANSFORMERS

Custom built

In this category we don't offer a full range of transformers but, the design is made upon customer's specifications. Simply know that the range of capacities goes up to 25 KVA for double wound transformers and to greater capacities for autotransformers. Indicatively, we show only one table with the usual range of capacities, from 6 to 25 KVA.

Specifications:

Compliance with BS171

Suitable for industrial & domestic applications.

Class F insulation

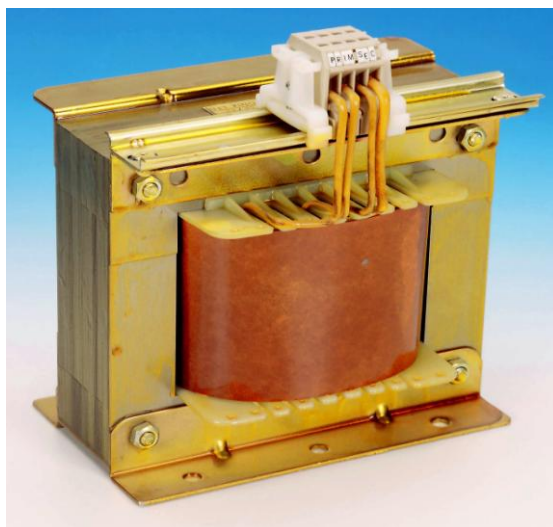
Operation in surrounding temperature of 40° C with temperature rise of 80° C.

Insulation resistance > 5 Meghoms between input & output windings and >2

Meghoms for other insulation, measurement made at 500V DC.

Flash test 2000V RMS between core & other parts and 4000V between input & output windings.

50/60 Hz frequency operation.



08-0606
With Terminals

1-PHASE Power Transformers - Custom built			
KVA	Style	Weight Kgr	Dimensions (mm)
6	08-0606	46	240x240x270
8	08-0606	59	240x280x270
10	08-0606	85	360x240x380
15	08-0606	115	360x260x380
20	08-0606	145	360x300X380
25	08-0606	174	360x340x380

Table 10

3-PHASE Power Transformers Custom built

Specifications:

Compliance with BS171

Suitable for industrial & domestic applications.

Class F insulation

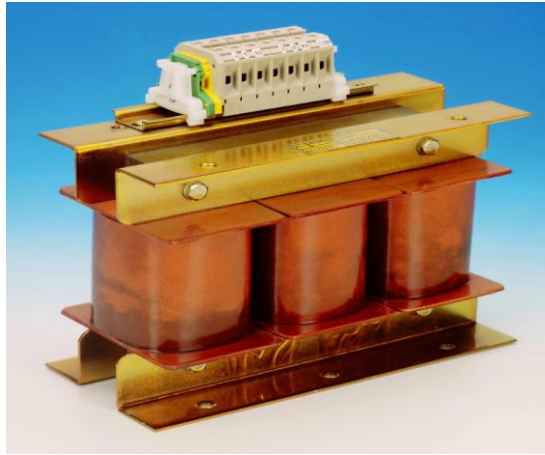
Operation in surrounding temperature of 40° C with temperature rise of 80° C.

Insulation resistance > 5 Megohms between input & output windings and >2

Megohms for other insulation, measurement made at 500V DC.

Flash test 2000V RMS between core & other parts and 4000V between input & output windings.

50/60 Hz frequency operation.



Style 06-0606

Input 415V / Output 220 or 240V 3-Phase • Double wound				
KVA	Weight Kgr	Dimensions (mm)	415V to 220V	415V to 240V
1	12	18x14x20	TR1300	TR1400
1.5	16	24x14x26	TR1305	TR1405
2	19	24x15x26	TR1310	TR1410
2.5	23	24x16x26	TR1315	TR1415
3	26	24x18x26	TR1320	TR1420
4	37	30x20x32	TR1325	TR1425
5	46	30x22x32	TR1330	TR1430
6	54	30x23x32	TR1335	TR1435
7	62	30x25x32	TR1340	TR1440
8	75	36x24x38	TR1345	TR1445
10	88	36x26x38	TR1350	TR1450

Table 11-a

In this table of 3-phase power transformers, we don't refer to specific types, but, we let customer be informed about weights & dimensions in relation to transformers capacity in KVA. The design is made upon customer's specifications. Simply know that the range of capacities goes up to 60 KVA for double wound transformers and to greater capacities for autotransformers.

3-PHASE Power Transformers Double wound Custom built		
KVA	Weight Kgr	Dimensions (mm)
1	12	18x14x20
1.5	16	24x14x26
2	19	24x15x26
2.5	23	24x16x26
3	26	24x18x26
4	37	30x20x32
5	46	30x22x32
6	54	30x23x32
7	62	30x25x32
8	75	36x24x38
10	88	36x26x38
12	100	36x28x38
15	110	42x28x44
20	140	42x31x44
25	175	48x32x50
30	200	48x34x50
35	225	48x36x50
40	260	60x36x60
45	275	60x37x60
50	290	60x38x60
60	330	60x40x60
Table 11-b		

**3-PHASE
AUTOTRANSFORMERS**

Input 415V / Output 220V 3-Phases • Autotransformer				
Power KVA	Type	Style	Weight Kgr	Dimensions (mm)
1	TR1000	06-0606	7.8	190x120x180
1.5	TR1005	06-0606	11.1	230x130x210
2	TR1010	06-0606	13.3	230x140x210
3	TR1015	06-0606	18.4	230x170x210
4	TR1020	06-0606	24	300x170x280
5	TR1025	06-0606	31	300x190x280
7	TR1030	06-0606	37.6	300x210x280
10	TR1035	06-0606	48	300x240x280
15	TR1040	06-1616	84	380x240x370
20	TR1045	06-1616	110	380x280x370
30	TR1050	06-1616	146	470x340x370
40	TR1055	06-1616	160	470x380x370
50	TR1060	06-1616	185	470x360x470
Table 12-a				

Input 415V / Output 380V 3-Phases • Autotransformers				
Power KVA	Type	Style	Weight Kgr	Dimensions (cm)
1	TR1100	06-0606	2	14x7x15
1.5	TR1105	06-0606	2.7	16x7x16
2	TR1110	06-0606	3.3	16x8x16
2.5	TR1115	06-0606	4.2	16x9x16
3	TR1120	06-0606	5	16x10x16
4	TR1125	06-0606	5.6	19x9x18
5	TR1130	06-0606	6.2	19x10x18
6	TR1135	06-0606	7.8	19x11x18
7	TR1140	06-0606	8.5	19x12x18
8	TR1145	06-0606	9.7	24x12x22
10	TR1150	06-0606	11.5	24x13x22
12	TR1155	06-0606	13.3	24x14x22
15	TR1160	06-0606	15	24x15x22
20	TR1165	06-0606	19	24x16x22
25	TR1170	06-0606	25	30x16x27
30	TR1175	06-0606	28	30x17x27
35	TR1180	06-0606	31	30x19x27
40	TR1185	06-0606	35	30x21x27
50	TR1190	06-0606	41	30x23x27
60	TR1195	06-0606	47	30x25x27
70	TR1200	06-1616	67	38x21x37
80	TR1205	06-1616	74	38x22x37
100	TR1210	06-1616	85	38x24x37
120	TR1215	06-1616	97	38x26x37
150	TR1220	06-1616	106	47x30x37
200	TR1225	06-1616	137	47x34x37
250	TR1230	06-1616	164	47x38x37
300	TR1235	06-1616	193	47x36x46
350	TR1240	06-1616	214	47x38x46
400	TR1245	06-1616	235	47x40x46
Table 12-b				

MOTOR STARTING AUTOTRANSFORMERS

General

- Used in Starters for electrosubmersible pumps and other motors.
- For intermitted use only.
- Designed to comply with the following British Standards:
BS171:1970, BS4941:1977 PART 4, IEC292-4:1975
- Max. delay time for each operation: 15 seconds.
- Rate of cycles:
 - Class 0.03: Up to 3 operations per hour
 - Class 0.01: Up to 12 operations per hour
 - Class 0.3 : Up to 30 operations per hour
- Rated operational voltage: 415V - 3-phases
- Tappings at 55% & 65% or at 65% only
- Class H (155⁰)
- Attention is drawn to the fact that the number of startings per hour (s.p.h.) assumes equal periods between starts except that, in the event of rapid succession, the autotransformer shall be allowed to cool before a further start is made.

Tappings at 55+65% or at 65% only Motor Starting (3 startings per hour)						
Horse Power (HP)	KW	Tapps 55+65 %	Taps 65 % only	Style	Weight KGR	Dimensions (CM)
5	4	SF01	TS01	5	6.3	20x16x12
7.5	6	SF02	TS02	5	7.8	20x16x14
10	7.58	SF03	TS03	5	9.8	20x16x15
12.5	9	SF04	TS04	5	11.1	24x21x15
15	11	SF05	TS05	5	13.3	24x21x16
20	15	SF06	TS06	5	14.5	24x21x17
25	19	SF07	TS07	5	18.4	24x21x19
30	22	SF08	TS08	5	20.6	24x21x20
35	26	SF09	TS09	5	21.9	32x27x17
40	30	SF10	TS10	5	24.5	32x27x18
50	37	SF11	TS11	5	28	32x27x19
60	45	SF12	TS12	5	31	32x27x20
80	60	SF13	TS13	5	37	32x27x21
100	75	SF14	TS14	5	43	32x27x23
125	93	SF15	TS15	5	47	32x27x24
150	112	SF16	TS16	6	65	38x27x37
175	130	SF17	TS17	6	74	38x28x37
200	148	SF18	TS18	6	80	38x29x37
225	167	SF19	TS19	6	85	38x30x37
250	185	SF20	TS20	6	90	38x31x37
300	223	SF21	TS21	6	95	47x28x37
350	260	SF22	TS22	6	106	47x30x37
400	297	SF23	TS23	6	120	47x32x37

Table 13-a

Transformer Type selection in relation with Motor Horse-Power (h.p.) or KW and the Startings per Hour			
Horse Power	KW	3 sph	12 sph
5	4	TS01	TS03
7.5	6	TS02	TS04
10	7.5	TS03	TS06
12.5	9	TS04	TS07
15	11	TS05	TS08
20	15	TS06	TS10
25	19	TS07	TS12
30	22	TS08	TS12
35	26	TS09	TS13
40	30	TS10	TS14
50	37	TS11	TS16
60	45	TS12	TS17
80	60	TS13	TS16
100	75	TS14	TS19
125	93	TS15	TS20
150	112	TS16	TS20
175	130	TS17	TS22
200	148	TS18	TS23
225	167	TS19	
250	185	TS20	
300	223	TS21	
350	260	TS22	
400	297	TS23	
Table 13-b			

Table showing the Horse-Power (HP) in relation with the Startings per Hour (sph) for a given size of autotransformer			
	<-----H.P ratings----->		
Type	3 sph	12 sph	30 sph
TS01	5		
TS02	7.5		
TS03	10	5	
TS04	12	7.5	
TS05	15	8.5	5
TS06	20	10	6
TS07	25	12.5	7
TS08	30	15	10
TS09	35	17	11
TS10	45	20	12.5
TS11	50	26	13
TS12	60	30	15
TS13	80	35	20
TS14	100	40	25
TS15	125	45	30
TS16	150	50	35
TS17	175	60	40
TS18	200	90	45
TS19	225	100	50
TS20	250	125	80
TS21	300	150	90
TS22	350	175	100
TS23	400	200	125
Table 13-b			

**Table showing the startings per hour (s.p.h.) in relation
with the Transformer size (type) and the load (H.P.)**

	<-----Horse - Power----->										
Type	5	7.5	10	12.5	15	20	25	30	35	40	50
TS01	3	1									
TS02	8	4	2	1							
TS03	14	7	3	2							
TS04	22	11	6	4	2	1			S.P.H		
TS05	35	18	10	6	4	2	1				
TS06	51	26	14	9	6	3	2	1			
TS07	66	33	18	12	8	4	3	2	1		
TS08		53	29	20	12	7	4	3	2	1	
TS09		67	36	25	16	9	5	4	3	2	1
TS10			57	38	25	14	9	7	5	3	2
TS11				46	30	17	10	8	6	4	3
TS12					47	26	16	12	9	6	4
TS13						36	23	17	12	9	6
TS14						49	31	24	17	12	9
TS15			S.P.H				36	28	20	14	10
TS16								46	33	24	17
TS17								54	39	28	20
TS18									50	36	25
TS19										46	32
TS20										76	53
TS21										94	66

Table continues....

Type	60	80	100	125	150	175	200	225	250	300	350	400
TS10	1											
TS11	2											
TS12	3	3	1	1								
TS13	4	4	2	1				S.P.H				
TS14	6	6	3	2	1							
TS15	7	7	4	3	2	1						
TS16	11	12	7	4	3	2	2	1				
TS17	13	14	8	5	4	3	2	1				
TS18	17	18	10	7	5	3	3	2	1			
TS19	22	23	14	9	6	4	3	3	2	1		
TS20	36	38	23	15	10	8	6	5	4	2	2	1
TS21	45	47	28	19	13	9	7	6	4	3	2	2
TS22		60	36	24	16	12	9	7	6	4	3	2
TS23			46	31	21	16	12	10	7	5	4	3

Table 13-d

**Table showing the total operating time (Δt) in seconds, in
relation with the type of transformer and the power load in HP**

**(During this time the transformer is assumed to carry
continuously the maximum starting current)**

	<-----Horse-Power----->										
Type	5	7.5	10	12.5	15	20	25	30	35	40	50
TS01	54	27	15	9							
TS02	124	62	34	23	15	8		S.P.H			
TS03	213	109	58	41	25	15	9				
TS04	345	175	95	65	42	23	15	11			
TS05	545	273	150	100	65	36	23	18	13	9	
TS06	776	395	215	146	95	53	34	25	18	13	
TS07	998	508	276	187	122	68	44	34	24	18	12
TS08		808	438	299	194	109	69	54	39	28	20
TS09		1017	552	376	245	137	88	68	49	35	25
TS10			858	585	381	213	137	106	76	55	38
TS11				703	458	258	164	128	92	66	46
TS12					707	394	251	194	140	102	71
TS13			S.P.H			541	346	267	193	140	98
TS14						748	478	369	255	194	136
TS15							550	425	307	224	156
TS16								700	507	367	258
TS17								824	596	433	303
TS18									750	545	461
TS19									958	696	488
TS20										1148	805
TS21										1420	995

Table continues...

Type	60	80	100	125	150	175	200	225	250	300	350	400
TS07	8											
TS08	13											
TS09	18	13	10									
TS10	28	21	17	11								
TS11	34	25	20	13			S.P.H					
TS12	50	39	31	20	14							
TS13	71	54	42	28	19	14	11					
TS14	97	75	58	39	25	20	15	12				
TS15	111	85	68	45	30	22	17	14	11			
TS16	185	141	111	75	50	38	30	24	19	13		
TS17	218	166	132	88	60	45	35	28	22	15	11	
TS18	274	210	165	110	75	57	45	35	28	20	14	12
TS19	350	268	212	142	97	73	57	46	36	26	19	15
TS20	578	442	289	234	159	120	94	76	60	43	31	25
TS21	714	546	432	265	197	148	115	92	73	53	38	31
TS22	901	690	545	288	248	188	147	118	94	67	49	39
TS23		885	699	468	318	240	187	151	119	85	62	50

Table 13-e

Mechanical Magnitudes			
Power VA	Mounting Style	Weight Kgr	Dimensions (mm)
20	01-0404	0.5	85x55x50
25	01-0404	0.6	85x60x50
30	01-0404	0.7	85x65x50
40	03-0404	1.0	80x60x80
50	03-0404	1.2	80x65x80
60	03-0404	1.4	80x70x80
70	03-0404	1.5	80x75x80
80	03-0404	1.6	87x80x90
100	03-0404	1.8	87x85x90
120	03-0404	2.0	87x90x90
150	03-0404	2.4	100x85x100
200	03-0404	2.9	100x95x100
250	03-0404	3.3	110x90x120
300	03-0404	3.9	110x100x120
350	03-0404	4.6	110x110x120
400	03-0404	5.0	130x110x130
450	03-0404	5.8	130x120x130
500	03-0404	6.8	130x130x130
600	03-0404	7.3	130x140x130
700	03-0404	8	160x120x160
750	03-0404	9	160x125x160
800	03-0404	10	160x130x160
900	03-0404	11	160x140x160
1000	03-0404	12	160x150x160
1500	03-0404	15	190X140X190
2000	03-0404	19	190x160x190
2500	03-0404	22	190x180x190
3000	03-0404	25	190x200x190
4000	08-0606	33	240x200x270
5000	08-0606	40	240x220x270

Table 14

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OTHER PRODUCTS IMPORTED TRADING ITEMS

- Variable Voltage Autotransformers, hand operated
- Automatic AC Voltage Stabilizers
- Inverters
- AC & DC Panel Meters
- Shunts
- Current transformers
- Terminals
- Universal Step-Switches

Variable Voltage Autotransformers Hand operated, 1-phase



- Supplying variable voltage from 0 to 260V AC for 240V input voltage.

Code	VA	Max. current (Amp)
VAR-200-1	200	0.84
VAR-500-1	500	2
VAR-1000-1	1,000	4
VAR-2000-1	2,000	8
VAR-3000-1	3,000	12
VAR-5000-1	5,000	20
VAR-10000-1	10,000	40
VAR-15000-1	15,000	60
VAR-20000-1	20,000	80

Variable Voltage Autotransformers

Hand operated 3-phases

- Supplying 3-phase variable voltage from 0 to 440V AC for 415V input voltage.

Code	VA	Max. current Per phase (A)
VAR-1500-3	1,500	2.2
VAR-3000-3	3,000	4
VAR-6000-3	6,000	8
VAR-9000-3	9,000	12
VAR-15000-3	15,000	20



Automatic AC Voltage Stabilizers * 1-Phase

Input: 145-265V / Output: 230V stable $\pm 3\%$

Code	VA	Max. current Per phase (A)
STAB-500-1	500	2.2
STAB-1000-1	1,000	4.4
STAB-1500-1	1,500	6.5
STAB-2000-1	2,000	8.7
STAB-3000-1	3,000	13
STAB-5000-1	5,000	21.7
STAB-8000-1	8,000	34.8
STAB-10000-1	10,000	43.5
STAB-15000-1	15,000	65.2



Automatic AC Voltage Stabilizers 3-Phases

- Input: 3-Phases 260-440V
- Output: 400V stable $\pm 3\%$

Code	VA	Max. current Per phase (A)
STAB-1500-3	1,500	2.2
STAB-3000-3	3,000	4.3
STAB-4500-3	4,500	6.5
STAB-6000-3	6,000	8.7
STAB-9000-3	9,000	13
STAB-15000-3	15,000	21.7
STAB-24000-3	24,000	34.6
STAB-30000-3	30,000	43.3



Inverters

From 12 Volts battery DC to 240 Volts AC

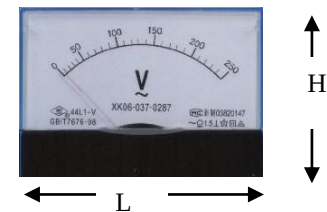
INV0100	INVERTER 100VA
INV0500	INVERTER 500VA
INV1000	INVERTER 1000VA
INV1500	INVERTER 1500VA
INV2000	INVERTER 2000VA



AC & DC Panel Meters

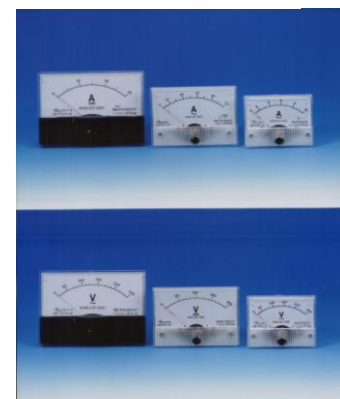
We have in stock 3 sizes of panel meters:

1. **Small:** Type 85, L x H = 6.5 x 5.5 cm
2. **Medium:** Type 69, L x H = 8 x 6.5 cm
3. **Large:** Type 44 L x H = 10 x 8 mm



Scales for all sizes

Volts AC	20-30-50-100-250-600	V ac
Volts DC	20-30-50-100-200	V dc
Amps AC	1-5-10-20-30 Without current transformer 50-100-400-1000 With current transformer	A ac A ac
Amps DC	1-5-10 Without shunt 20-30-50-100-400 With shunt	A dc



Shunt

Shunt available:

20-30-50-100-400-1000 Amper DC



Current Transformers

Current transformers (C.T.)
for AC Ammeters
in the following scales:

50-100-400-1000 Ampers AC



Terminals

Terminals & parts
For asymmetrical rails
available in the following sizes:

2.5 – 4 – 6 – 10 – 16 – 35 mm²



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