

# STANCOR®

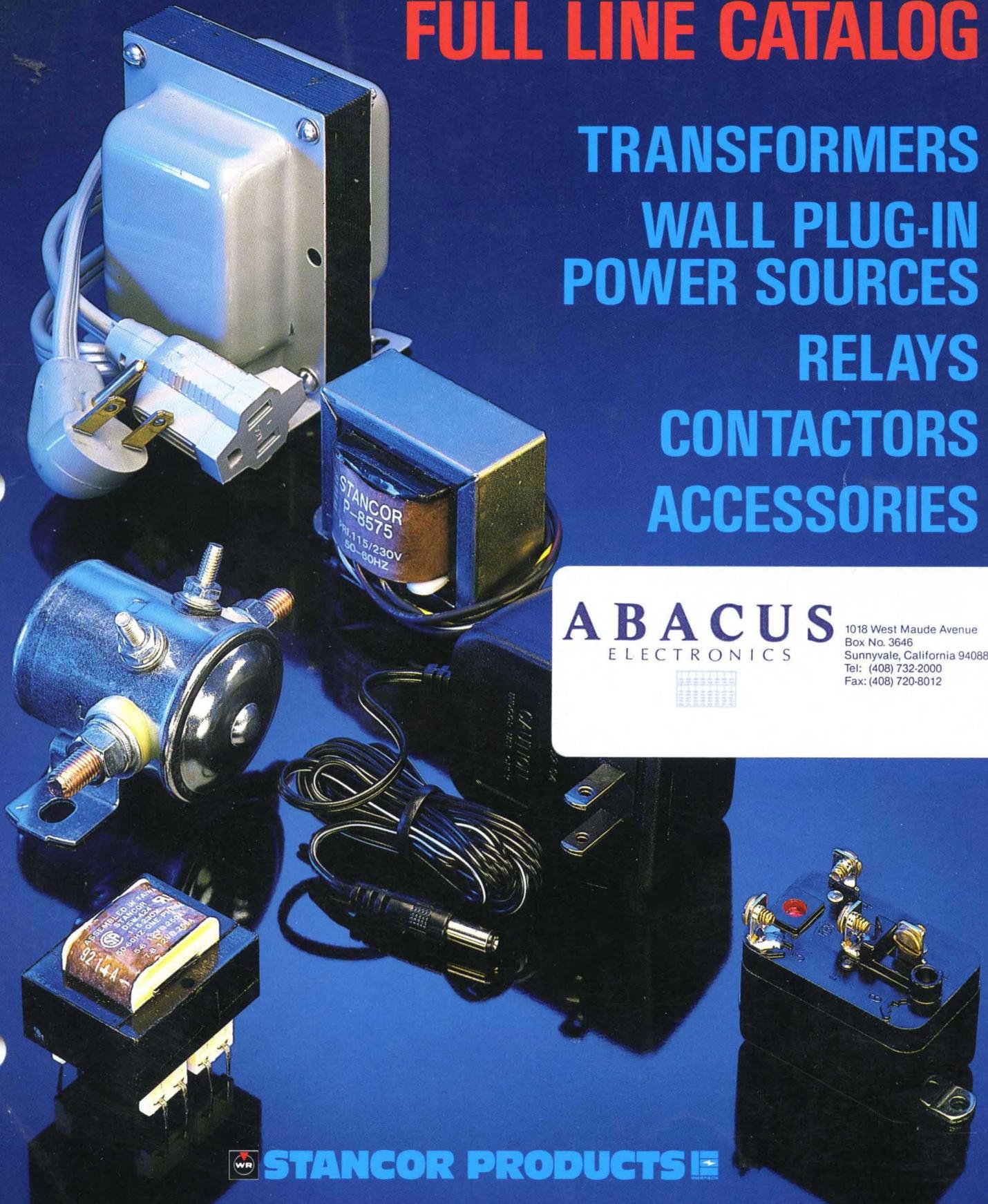
## FULL LINE CATALOG

TRANSFORMERS  
WALL PLUG-IN  
POWER SOURCES  
RELAYS  
CONTACTORS  
ACCESSORIES

**ABACUS**  
ELECTRONICS



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**STANCOR PRODUCTS**

# Production/Catalog Number Index For Relays & Contactors

# STANCOR

Stancor Production Part No.	Stancor Catalog No.	Stancor Production Part No.	Stancor Catalog No.	Stancor Production Part No.	Stancor Catalog No.
70-108224-5A	70-901	120-106761-6	120-906	154-422221-22100AS	154-912
70-108225-5A	70-913	120-105752-6	120-907	154-422221-52100AS	154-910
70-108226-5A	70-917	120-108752-6	120-908		
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70-111224-5A	70-902	120-114752-6	120-910	184-20103-301ZY	184-916
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70-111226-5A	70-918	120-106762-6	120-912	184-20202-101ZY	184-913
70-117221-5A	70-907			184-20205-101ZY	184-903
70-117224-5A	70-903	122-5133-AS	122-901	184-20206-301ZY	184-907
70-117225-5A	70-915	122-5233-AS	122-902	184-20302-101ZY	184-914
		122-5333-AS	122-903	184-20303-301ZY	184-918
70-120221-5A	70-908	122-6133-AS	122-905	184-50102-101ZY	184-922
70-120224-5A	70-904	122-6233-AS	122-906	184-50203-301ZY	184-927
70-311221-5A	70-910	122-6333-AS	122-907		
70-311224-5A	70-922			192-311111-11682	192-902
70-317221-5A	70-911	124-105111-3	124-902	192-331111-11682	192-903
70-317224-5A	70-923	124-105211-3	124-906		
70-320221-5A	70-912	124-114111-3	124-903	586-102111-3	586-901
		124-114211-3	124-907	586-105111-3	586-902
75-250301-2510FC	75-905	124-117111-3	124-904	586-108111-3	586-903
75-250301-2513FC	75-906	124-305111-3	124-910	586-114111-3	586-905
75-840301-2910FC	75-902	124-314111-3	124-911	586-117111-3	586-906
75-840301-2913FC	75-903	124-317111-3	124-912	586-120111-3	586-907
				586-302111-3	586-910
84-20102-101ZY	84-912	129115-6810ZW	129-903	586-305111-3	586-911
84-20105-101ZY	84-902	129115-6830ZW	129-904	586-314111-3	586-914
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84-20302-101ZY	84-914	129115-7180ZW	129-911	690-11112-005S	TO-9005A
84-20405-101ZY	84-901			690-12112-005S	TO-9005B
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84-20203-301ZY	84-917	129117-5480ZW	129-906	690-11112-012S	TO-9012A
84-20206-301ZY	84-907	129505-3110ZW	129AR-902	690-12112-012S	TO-9012B
84-20303-301ZY	84-918	129507-5310ZW	129AR-905	690-13112-012S	TO-9012C
84-20306-301ZY	84-908	129515-3180ZW	129AR-901	690-11112-024S	TO-9024A
84-31106-301ZY	84D-903	129517-5386ZW	129AR-904	690-12112-024S	TO-9024B
84-31506-301ZY	84D-902			690-13112-024S	TO-9024C
84-50102-101ZY	84-922	134-20102-101ZY	134-912	690-21112-005S	TD-9005A
84-50103-301ZY	84-926	134-20103-301ZY	134-916	690-22112-005S	TD-9005B
84-50203-301ZY	84-927	134-20202-101ZY	134-913	690-23112-005S	TD-9005C
84-50303-301ZY	84-928	134-20203-301ZY	134-917	690-21112-012S	TD-9012A
		134-20302-101ZY	134-914	690-22112-012S	TD-9012B
		134-20303-301ZY	134-918	690-23112-012S	TD-9012C
91-108-1	91-180-1	134-21502-101ZY	134D-911	690-21112-024S	TD-9024A
91-131006-13000	91-902	134-21503-301ZY	134D-915	690-22112-024S	TD-9024B
91-132006-13000	91-901			690-23112-024S	TD-9024C
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91-191006-13000	91-905	150-66	150-906	690-32112-005S	TS-9005B
91-193006-13000	91-906	150-62	150-902	690-33112-005S	TS-9005C
91-222004-22000	91D-913	150-63	150-903	690-31112-012S	TS-9012A
91-227004-22000	91D-912	150-61	150-901	690-32112-012S	TS-9012B
		150-64	150-904	690-33112-012S	TS-9012C
120-105751-6	120-901	154-112221-12000AS	154-902	690-31112-024S	TS-9024A
120-108751-6	120-902	154-112221-22000AS	154-903	690-32112-024S	TS-9024B
120-111751-6	120-903	154-212221-12000AS	154-905	690-33112-024S	TS-9024C
120-114751-6	120-904	154-212221-52000AS	154-904		
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		154-342221-52000AS	154-907		
		154-422021-12100DS	154-914		
		154-422021-22100DS	154-915		
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## Directory of Stancor Distributors

### NAME, ADDRESS AND PHONE NUMBER OF NEAREST STANCOR DISTRIBUTORS

NAME	ADDRESS	PHONE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

## Warranty Statement

All statements, technical information and recommendations contained herein are based on information that White-Rodgers Logansport Division, Emerson Electric Co. (Seller) believes to be reliable, but the accuracy or completeness thereof is not guaranteed. Seller reserves the right to discontinue, alter or modify the products or warranty dated below at any time. Buyer is responsible for determining the suitability of the product for Buyer's intended use and Buyer assumes all risks and responsibility for loss or damage resulting from the handling or use of the product.

Seller warrants that products manufactured by Seller will be free from defects in material and manufacture. Seller's sole liability and Buyer's exclusive remedy under this warranty are limited to the repair or replacement at Seller's election, of products or parts thereof returned to Seller which are shown to Seller's reasonable satisfaction to have been defective; provided that written notice of the defect shall have been given by Buyer to Seller within ninety (90) days after the first operation or

use of the product, but in no event later than one (1) year after delivery of such products by Seller. If a product listed herein is not manufactured by Seller, Seller will, in lieu of the above warranty, pass to Buyer any warranties that may have been extended to Seller by the manufacturer.

**The foregoing constitutes Seller's sole responsibility under this warranty, and Buyer's exclusive remedy for the breach thereof. Except as otherwise expressly set forth in this agreement, there are no other warranties, express or implied, whether of merchantability, fitness for a particular purpose, or otherwise. Seller shall not be liable for any special, indirect, incidental or consequential damages of any character in connection with the sale, resale or use of the products.**

No agreement varying or extending the foregoing warranties, remedies, or this limitation will be binding upon Seller unless in writing, signed by a duly-authorized officer of Seller.

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A-52C	27	C	DSW-510	21	A	LB1240	22	I	P-8394	7	J
A-53C	27	C	DSW-512	21	B	LB1256	22	J	P-8395	7	J
A-63C	27	C	DSW-516	21	C	LB1288	22	K	P-8396	7	J
A-4350	27	B	DSW-520	21	D	LB2120	22	L	P-8397	7	J
A-4779	27	A	DSW-524	21	E	LB2230	22	M	P-8500	7	G
A-8078	26	L	DSW-528	21	F	LB4120	22	L	P-8504	7	G
A-8079	26	L	DSW-532	21	G	LB5120	22	L	P-8505	7	GG
A-8080	26	I	DSW-536	21	H	LB6120	22	L	P-8507	7	G
A-8081	26	J	DSW-548	21	I	LB6230	22	M	P-8508	7	GG
A-8084	26	K	DSW-556	21	J	LB12120	22	L	P-8542	8	E
A-8095	26	C	DSW-610	21	A	LB12230	22	M	P-8550	7	C
A-8096	26	A	DSW-612	21	B				P-8551	7	I
A-8097	26	B	DSW-616	21	C	P-591-900	25	A	P-8553	7	E
A-8099	26	D	DSW-620	21	D	P-591-901	25	A	P-8555	7	E
A-8102	26	E	DSW-624	21	E	P-591-902	25	A	P-8556	7	E
A-8103	26	F	DSW-628	21	F	P-591-910	25	A	P-8557	7	E
A-8105	26	G	DSW-632	21	G	P-591-911	25	A	P-8558	7	E
A-8109	26	H	DSW-636	21	H	P-591-912	25	A	P-8559	7	EE
			DSW-648	21	I	P-3064	6	D	P-8560	7	EE
			DSW-656	21	J	P-4026	6	A	P-8564	8	EE
			DSW-2120	21	K	P-5015	6	E	P-8566	8	EE
			DSW-3120	21	K	P-5016	6	F	P-8571	8	EE
			DSW-4120	21	K	P-6133	6	A	P-8574	7	HL
			DSW-5120	21	K	P-6134	6	C	P-8575	7	KE
			DSW-6120	21	K	P-6135	6	B	P-8577	7	KE
						P-6138	6	E	P-8578	7	J
						P-6160	19	D	P-8600	8	BB
			GIS-100	19	A	P-6161	19	D	P-8601	8	BB
			GIS-150	19	A	P-6287	18	C	P-8602	8	BB
			GIS-250	19	A	P-6308	6	D	P-8603	8	BB
			GIS-500	19	A	P-6309	6	D	P-8604	7, 12	H, A
			GIS-1000	19	A	P-6375	10	A	P-8605	8	F
						P-6376	10	A	P-8607	8	FA
			GISD-100	19	B	P-6377	10	B	P-8609	8	AA
			GISD-150	19	B	P-6378	10	B	P-8610	8	AD
			GISD-250	19	B	P-6379	10	B	P-8611	8	DD
			GISD-500	19	B	P-6385	19	E	P-8612	8	DD
			GISD-1000	19	B	P-6406	19	E	P-8613	8	DD
						P-6410	19	C	P-8615	10	CC
			GSD-75	18	A	P-6411	19	C	P-8616	10	CC
			GSD-100	18	A	P-6412	19	C	P-8617	10	CC
			GSD-150	18	A	P-6413	19	C	P-8618	10	CC
			GSD-250	18	A	P-6425	17	I	P-8619	10	CC
			GSD-300	18	A	P-6426	17	J	P-8620	18	CC
						P-6428	9	A	P-8622	19	D
			GSD-350	18	A	P-6429	9	A	P-8628	6	A
			GSD-500	18	B	P-6433	6	B	P-8629	6	A
			GSD-750	18	B	P-6434	9	A	P-8630	18	CC
			GSD-1000	18	B	LB210	22	A	P-8631	18	CC
			GSD-1500	18	B	LB215	22	D	P-8632	18	CC
						LB240	22	I	P-8634	18	CD
						LB256	22	J	P-8637	18	DD
						LB288	22	K	P-8638	18	DD
						LB310	22	A	P-8639	18	DD
						LB315	22	D	P-8640	18	DD
						LB410	22	A	P-8641	7	D
						LB412	22	B	P-8642	7	DD
						LB420	22	F	P-8643	7	DD
						LB424	22	G	P-8644	7	DD
						LB510	22	A	P-8645	7	L
						LB512	22	B	P-8646	7	L
						LB520	22	F	P-8647	7	L
						LB524	22	G	P-8648	6	DD
						LB610	22	A	P-8649	6	DD
						LB612	22	C	P-8651	6	DF
						LB616	22	E	P-8652	6	F
						LB620	22	F	P-8653	6	F
						LB624	22	G	P-8654	6	FA
						LB634	22	H	P-8655	7	FA
						LB640	22	I	P-8656	7	AB
						LB656	22	J	P-8657	7	B
						LB688	22	K	P-8658	7	B
						LB1210	22	A	P-8659	7	BB
						LB1212	22	C	P-8660	7	BB
						LB1216	22	E	P-8661	7	KK
						LB1220	22	F	P-8662	7	K
						LB1224	22	G			
						LB1234	22	H			
DSW-210	21	A	LB210	22	A	P-8357	7	L			
DSW-212	21	B	LB215	22	D	P-8358	7	D			
DSW-216	21	C	LB240	22	I	P-8359	7	B			
DSW-220	21	D	LB256	22	J	P-8361	12	C			
DSW-224	21	E	LB288	22	K	P-8362	12	C			
DSW-228	21	F	LB310	22	A	P-8363	12	C			
DSW-232	21	G	LB315	22	D	P-8364	12	C			
DSW-236	21	H	LB410	22	A	P-8366	12	C			
DSW-248	21	I	LB412	22	B	P-8380	6	F			
DSW-256	21	J	LB420	22	F	P-8384	7	C			
DSW-310	21	A	LB424	22	G	P-8385	6	C			
DSW-312	21	B	LB510	22	A	P-8388	7	L			
DSW-316	21	C	LB512	22	B	P-8389	6	C			
DSW-320	21	D	LB520	22	F	P-8390	7	B			
DSW-324	21	E	LB524	22	G	P-8391	7	B			
DSW-328	21	F	LB610	22	A	P-8392	7	B			
DSW-332	21	G	LB612	22	C	P-8393	7	B			
DSW-336	21	H	LB616	22	E						
DSW-348	21	I	LB620	22	F						
DSW-356	21	J	LB624	22	G						
DSW-410	21	A	LB634	22	H						
DSW-412	21	B	LB640	22	I						
DSW-416	21	C	LB656	22	J						
DSW-420	21	D	LB688	22	K						
DSW-424	21	E	LB1210	22	A						
DSW-428	21	F	LB1212	22	C						
DSW-432	21	G	LB1216	22	E						
DSW-436	21	H	LB1220	22	F						
DSW-448	21	I	LB1224	22	G						
DSW-456	21	J	LB1234	22	H						

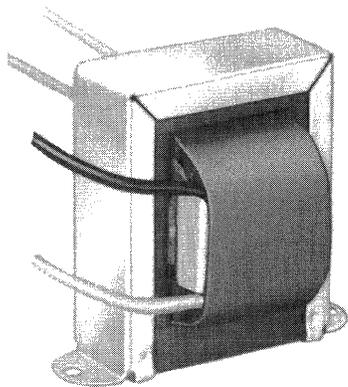
# Part Number Index For Transformers

# STANCOR

Stancor Part No.	Pg. No.	Sect.	Stancor Part No.	Pg. No.	Sect.	Stancor Part No.	Pg. No.	Sect.	Stancor Part No.	Pg. No.	Sect.
P-8663	7	K	PPC-14	23	D	STA-5760	36	A	SW-536	21	H
P-8664	7	K	PPC-17	23	D	STA-5760A	36	A	SW-548	21	I
P-8665	7	K	PPC-18	24	B	STA-5775	36	A	SW-556	21	J
P-8666	7	K	PPC-19	24	B	STA-5790	36	A	SW-610	21	A
P-8667	8	B	PPC-20	24	B	STA-6013A	36	A	SW-612	21	B
P-8668	8	B	PPC-22	23	E	STA-6612	36	A	SW-616	21	C
P-8669	8	B	PPC-23	23	E	STA-6612A	36	A	SW-620	21	D
P-8670	8	B	PPC-27	23	E	STA-6612B	36	A	SW-624	21	E
P-8671	8	D	PPC-28	24	B	STA-6613	36	A	SW-628	21	F
P-8672	8	D	PPC-46	24	A	STA-6615	36	A	SW-632	21	G
P-8673	8	D	PPC-47	24	B	STA-6618	36	A	SW-636	21	H
P-8674	8	D	PPC-48	24	B	STA-6624	36	A	SW-648	21	I
P-8678	9	B	PPC-51	24	A	STA-6690	36	A	SW-656	21	J
P-8682	9	B	PPC-56	24	C				SW-2120	21	K
P-8683	9	B	PPC-57	24	C	STAF-0329F	37	A	SW-3120	21	K
P-8684	9	C	PPC-58	24	C	STAF-0354F	37	A			
P-8685	9	C				STAF-0381BF	37	A	SW-4120	21	K
P-8686	9	C	PS-8415	17	A	STAF-0418F	37	A	SW-5120	21	K
P-8687	9	C	PS-8416	17	B	STAF-0437F	37	A	SW-6120	21	K
P-8689	18	D	RT-201	13	A	STAF-0460F	37	A	TA-3	33	A
P-8690	7	F	RT-202	13	A	STAF-0797F	37	A	TA-7	33	B
P-8691	7	F	RT-204	13	A	STAF-0834F	37	A	TA-12	33	C
P-8692	7	F	RT-206	13	A	STAF-1058F	37	A	TA-21	33	E
P-8693	7	F	RT-208	13	A	STAF-1059F	37	A	TA-24	33	F
P-8694	7	I	RT-401	13	C	STAF-1433F	37	A	TA-28	33	F
P-8695	7	K	RT-402	13	C	STAF-1454F	37	A	TA-31	33	G
P-8696	9	D	RT-408	13	C	STAF-1847F	37	A	TA-34	33	G
P-8705	6	C	RT-2012	13	B	STAF-1848F	37	A	TA-35	33	H
P-8707	7	L				STAF-1948F	37	A	TA-38	33	H
P-8715	7	D	STA-300R	36	A	STAF-1972F	37	A	TA-39	34	A
P-8716	7	D	STA-3512	36	A	STAF-2098F	37	A	TA-42	34	A
P-8720	7	J	STA-3512B	36	A	STAF-2099F	37	A	TA-47	34	B
P-8721	7	J	STA-3512C	36	A	STAF-2100F	37	A	TA-52	34	A
P-8722	7	J	STA-3512E	36	A	STAF-2134F	37	A	TA-55	34	B
P-8723	7	J	STA-3512F	36	A	STAF-2223F	37	A	TA-57	33	C
P-8728	8	D	STA-3518	36	A	STAF-2243F	37	A	TA-59	33	D
P-8750	9	E	STA-3530	36	A	STAF-2343F	37	A			
P-8754	9	E	STA-3530A	36	A	STAF-2349AF	37	A	TAPC-35	34	C
PA-8421	17	C	STA-3540	36	A	STAF-3309AF	37	A	TAPC-38	34	C
PC-8406	17	F	STA-3545B	36	A	STAF-3382F	37	A	TAPC-52	34	D
PC-8410	17	G	STA-3560	36	A	STAF-3613F	37	A	TAPC-63	34	D
PC-8412	17	H	STA-3560A	36	A	STAF-3775F	37	A	TC-1	36	I
PCA-2	11	A	STA-3560B	36	A	STAF-3777F	37	A	TC-2	36	I
PCA-3	11	B	STA-3575	36	A	STAF-4935F	37	A			
PCA-4	11	B	STA-3575A	36	A				TP-2	12	B
PCF-24075	10	D	STA-3590	36	A	SW-210	21	A	TP-4	12	B
PCT-01	29	E	STA-3590A	36	A	SW-212	21	B	TP-6	12	B
PCT-04	29	C	STA-3590B	36	A	SW-216	21	C			
PCT-11	29	B	STA-3590B	36	A	SW-220	21	D	TTPC-1	30	A
PCT-12	29	B	STA-4110	36	A	SW-224	21	E	TTPC-2	30	A
PCT-18	29	A	STA-4110A	36	A	SW-228	21	F	TTPC-3	30	A
PCT-21	29	A	STA-4112A	36	A	SW-232	21	G	TTPC-5	30	A
PCT-23	29	C	STA-4112B	36	A	SW-236	21	H	TTPC-6	30	B
PCT-24	29-30	A, E	STA-4112C	36	A	SW-248	21	I	TTPC-7	30	B
PCT-27	29-30	A, E	STA-4116	36	A	SW-256	21	J	TTPC-8	30	B
PCT-31	29	B	STA-4118	36	A	SW-310	21	A	TTPC-9	30	B
PCT-33	29	A	STA-4124	36	A	SW-312	21	B	TTPC-11	30	B
PCT-36	29	A	STA-4130	36	A	SW-316	21	C	TTPC-12	30	C
PCT-39	29	B	STA-4160	36	A	SW-320	21	D	TTPC-13	30	C
PCT-40	29	B	STA-4160A	36	A	SW-324	21	E	TTPC-14	30	C
PCT-62	29	A	STA-4190A	36	A	SW-328	21	F	TTPC-15	30	C
PCT-76	29	B	STA-4190B	36	A	SW-332	21	G	TTPC-18	30	D
PCT-77	29-30	A, E	STA-4190D	36	A	SW-336	21	H	TTPC-19	30	D
PCT-78	29-30	A, E	STA-4190F	36	A	SW-348	21	I			
PM-8420	17	D	STA-4192D	36	A	SW-356	21	J	W50DRL60-1	38	B
PPC-1	23	C	STA-4814	36	A	SW-410	21	A	W60DRJ40-1	38	B
PPC-2	23	C	STA-4815	36	A	SW-412	21	B	W60DUH40-1	38	A
PPC-3	23	C	STA-4820	36	A	SW-416	21	C	W75DUJ50-1	38	A
PPC-4	23	C	STA-4860	36	A	SW-420	21	D	W90DRK30-X1	38	D
PPC-6	23	C	STA-4860A	36	A	SW-424	21	E	W120AUG10-X1	38	E
PPC-7	23	C	STA-4875	36	A	SW-428	21	F	W120DRK25-X1	38	D
PPC-8	24	A	STA-4890	36	A	SW-432	21	G	W140DUJ35-1	38	A
PPC-11	23	D	STA-4890A	36	A	SW-436	21	H	W170AUK50-2	38	C
PPC-12	23	D	STA-5712	36	A	SW-448	21	I	W180AUM88-1	38	C
PPC-13	23	D	STA-5713A	36	A	SW-456	21	J	W200DUJ28-1	38	A
			STA-5713B	36	A	SW-510	21	A	W240AUJ45-1	38	C
			STA-5713C	36	A	SW-512	21	B	W240AUM66-1	38	C
			STA-5715	36	A	SW-516	21	C	W240DUH05-1	38	A
						SW-520	21	D			
						SW-524	21	E			
						SW-528	21	F			
						SW-532	21	G			

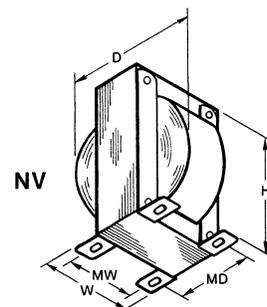
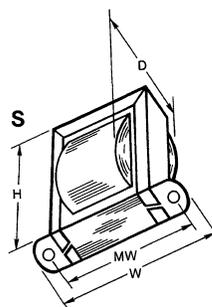
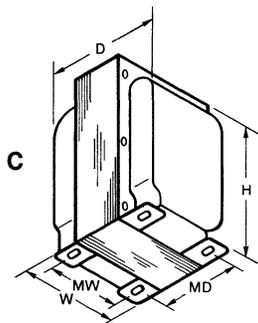
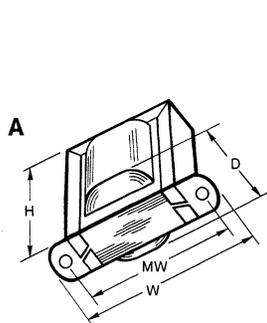
Stancor Part No.	Pg. No.	Stancor Part No.	Pg. No.	Stancor Part No.	Pg. No.
70-901	50	124-902	52	586-907	52
70-902	50	124-903	52	586-910	52
70-903	50	124-904	52	586-911	52
70-904	50	124-906	52	586-914	52
70-906	50	124-907	52	586-915	52
70-907	50	124-910	52	586-916	52
70-908	50	124-911	52	ADT-30100	56
70-909	50	124-912	52	ADT-30120	56
70-910	50			ADT-30140	56
70-911	50	129-902	46	STC-100	55
70-912	50	129-903	46	STC-120	55
70-913	50	129-904	46	STC-140	55
70-914	50	129-906	46	STC-170	55
70-915	50	129-907	46	STC-180	55
70-917	50	129-911	46	STC-225	55
70-918	50	129-912	46	STC-240	55
70-922	50	129AR-901	46	STO-60	55
70-923	50	129AR-902	46	STO-85	55
		129AR-904	46	STO-110	55
		129AR-905	46	STO-120	55
75-902	46			STO-140	55
75-903	46	134-185-1	40	STO-148	55
75-905	46	134-912	40	STO-160	55
75-906	46	134-913	40	STO-170	55
		134-914	40	STO-175	55
84-901	40	134-916	40	STO-180	55
84-902	40	134-917	40	STO-190	55
84-903	40	134-918	40	STO-210	55
84-906	40			STO-220	55
84-907	40	134D-911	40	STO-230	55
84-908	40	134D-915	40	STO-248	55
84-912	40			STO-325	55
84-913	40	150-901	48	TD-9005A	54
84-914	40	150-902	48	TD-9005B	54
84-917	40	150-903	48	TD-9005C	54
84-918	40	150-904	48	TD-9012A	54
84-922	40	150-905	48	TD-9012B	54
84-926	40	150-906	48	TD-9012C	54
84-927	40			TD-9024A	54
84-928	40	154-902	44	TD-9024B	54
		154-903	44	TD-9024C	54
84D-902	40	154-904	44	TO-9005A	54
84D-903	40	154-905	44	TO-9005B	54
		154-907	44	TO-9005C	54
91-901	42	154-908	44	TO-9012A	54
91-902	42	154-910	44	TO-9012B	54
91-903	42	154-911	44	TO-9012C	54
91-905	42	154-912	44	TO-9024A	54
91-906	42	154-913	44	TO-9024B	54
91D-912	42	154-914	44	TO-9024C	54
91D-913	42	154-915	44	TS-9005A	54
120-901	48	184-902	40	TS-9005B	54
120-902	48	184-903	40	TS-9005C	54
120-903	48	184-907	40	TS-9012A	54
120-904	48	184-912	40	TS-9012B	54
120-905	48	184-913	40	TS-9012C	54
120-906	48	184-914	40	TS-9024A	54
120-907	48	184-916	40	TS-9024B	54
120-908	48	184-918	40	TS-9024C	54
120-909	48	184-922	40		
120-910	48	184-927	40		
120-911	48	192-902	42		
120-912	48	192-903	42		
122-901	42	586-901	52		
122-902	42	586-902	52		
122-903	42	586-903	52		
122-905	42	586-905	52		
122-906	42	586-906	52		

## CONTROL TRANSFORMERS



### CONTROL FILAMENT POWER TRANSFORMERS

Stancor has developed a wide variety of power transformers for use in an array of electrical and electronic applications. Designed for today's high technology requirements, the extensive product line includes — Auto, control, energy limiting, filament, isolation, plate and filament, and rectifier. In addition, there are miniature transformers for printed circuit applications.



### SINGLE SECONDARY: ALL PRIMARIES 50/60 Hz.‡

S E C T	STANCOR Part No.	Style	Secondary▲		Primary Volts	Insulation Test RMS Volts*	Termination		Dimensions-Inches					Wt. Lbs.
			Volts	Amps.			Pri.	Sec.	Case			Mounting		
									H	W	D	MW	MD	
A	P-8628	A	2.5C.T.	.3	117	1500	Leads	Leads	1¼	2½	1⅝	1¾	—	.3
	P-8629	A	2.5	1.0	117	1500	Leads	Leads	1⅝	2⅝	1⅝	2	—	.4
	P-4026	A	2.5	1.5	117	2500	Leads	Leads	1⅝	2⅝	1⅝	2⅝	—	.7
	P-6133†	S	2.5C.T.	5.0	117	7500	Leads	Leads	2¾	3⅝	2¼	2⅜/16	—	1.5
	P-6454	S	2.5C.T.	10.0	117/107	7500	Leads	Leads	3⅝	3⅝	2½	3⅝	—	2.5
B	P-6467	A	5.0C.T.	3.0	117	2500	Leads	Leads	2	3¼	2⅝	2⅜/16	—	1.4
	P-6135	NV	5.0C.T.	10.0	117	2500	Leads	Leads	3⅝	2½	2¾	2	2⅝	3.0
	P-6433†	NV	5.0C.T.	15.0	117	2500	Leads	Leads	3⅝	2½	2¾	2	2¼	3.0
C	P-8385	A	6.3C.T.	.3	117	1500	Leads	Leads	1¼	2⅝	1⅝	1¾	—	.3
	P-6465	A	6.3C.T.	.6	117	1500	Leads	Leads	1⅝	2⅝	1½	2	—	.4
	P-8705	A	6.3C.T.	.6	230	1500	Leads	Leads	1⅝	2⅝	1½	2	—	.4
	P-8389	A	6.3	1.0	117	1500	Leads	Leads	1⅝	2⅝	1⅝	2⅝	—	.6
	P-6134	A	6.3C.T.	1.2	117	3000	Leads	Leads	1⅝	2⅝	1⅝	2⅝	—	.8
	P-8190	A	6.3	1.2	117	5000	Leads	Leads	2	3¼	1⅝	2⅜/16	—	1.0
D	P-6466	A	6.3C.T.	3.0	117	2500	Leads	Leads	2	3¼	2⅝	2⅜/16	—	1.4
	P-8648	A	6.3C.T.	4.0	117	1500	Leads	Leads	2⅝	3¼	2⅝	3⅝	—	1.6
	P-8649	A	6.3C.T.	5.0	117	1500	Leads	Leads	2⅝	3¼	2⅝	3⅝	—	1.8
	P-3064†	NV	6.3C.T.	6.0	117	2500	Lugs	Lugs	3⅝	2½	2⅝	2	2	2.4
	P-6456	A	6.3C.T.	6.0	117/107	2000	Leads	Leads	2⅝	3¼	2⅝	3⅝	—	2.0
	P-8651	A	6.3C.T.	8.0	117	1500	Leads	Leads	2⅝	4	2¼	3⅜/16	—	2.4
	P-6464	C	6.3C.T.	10.0	117	2000	Leads	Leads	3½	2⅜/16	3¼	2¼	2	3.5
	P-6308†	NV	6.3C.T.	10.0	117/107	2500	Leads	Leads	3⅜/16	2¼/16	2⅝	2¼	2⅝	3.4
P-6309	NV	6.3C.T.	20.0	117/107	2500	Leads	Leads	4⅜/16	3¼	3⅝	3	2⅝	6.7	
E	P-5015†	NV	7.5C.T.	4.0	117	2500	Lugs	Lugs	3⅝	2½	2¼	2	2⅝	2.7
	P-6138†	NV	7.5C.T.	8.0	117	2500	Lugs	Lugs	3⅜/16	3⅝	2¾	2½	2⅝	4.7
F	P-8652	A	10.0C.T.	1.0	117	1500	Leads	Leads	2	3¼	1⅝	2⅜/16	—	.9
	P-8653	A	10.0C.T.	2.0	117	1500	Leads	Leads	2	3¼	2	2⅜/16	—	1.3
	P-8380	A	10.0C.T.	3.0	117	1500	Leads	Leads	2⅝	3¼	2¼	3⅝	—	1.6
	P-8654	A	10.0C.T.	4.0	117	1500	Leads	Leads	2⅝	4	2⅝	3⅜/16	—	2.3
	P-5016†	NV	10.0C.T.	4.0	117	2500	Lugs	Lugs	3⅜/16	2⅜/16	2½	2¼	2	3.3
	P-6458	NV	10.0C.T.	5.0	117/107	2000	Leads	Leads	3⅜/16	2½	2½	2⅝	1⅜/16	3.0

‡May be operated from a 400 Hz. source with no change in output ratings. †Has electrostatic shield.  
\*Insulation Test Voltage: Twice allowable RMS working voltage plus 1000 volts. ▲R.M.S. values.

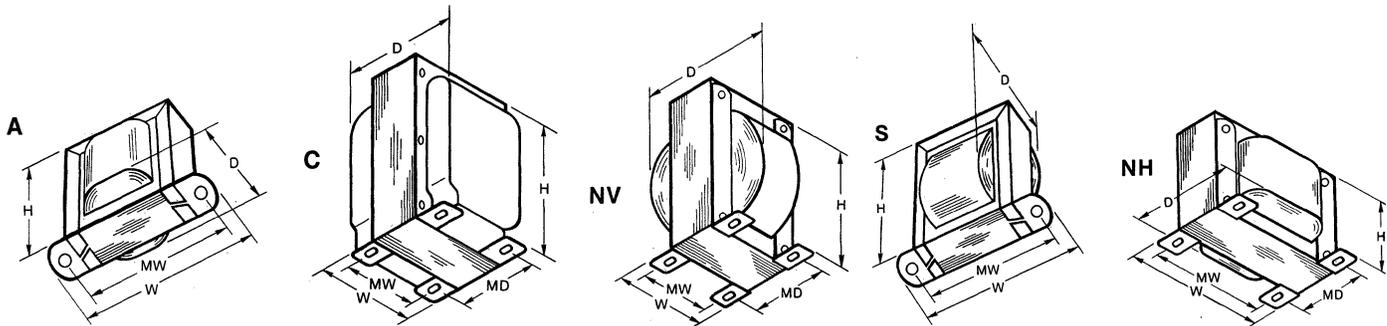
### CONTROL TRANSFORMERS

#### SINGLE SECONDARY: ALL PRIMARIES 50/60 Hz. (cont'd.)

S E C T	STANCOR Part No.	Style	Secondary ▲		Primary Volts	Insulation Test RMS Volts*	Termination		Dimensions-Inches					Wt. Lbs.
			Volts	Amps.			Pri.	Sec.	Case			Mounting		
									H	W	D	MW	MD	
A	P-8655	NV	10.0C.T.	6.0	117	1500	Leads	Leads	3/8	2 1/2	2 3/4	2	2 5/16	3.1
	P-8656	NV	10.0C.T.	8.0	117	1500	Leads	Leads	3 7/16	2 13/16	3	2 1/4	2 1/2	4.1
	P-6461	C	10.0C.T.	10.0	117	2000	Leads	Leads	3 7/8	3 1/4	3 9/16	2 1/2	2 1 1/16	5.0
B	P-8390	A	12.0	.150	117	1500	Leads	Leads	1 1/4	2 1/8	1 1/4	1 3/4	—	.25
	P-8391	A	12.0	.350	117	1500	Leads	Leads	1 3/8	2 3/8	1 3/8	2	—	.35
	P-8392	A	12.0	.700	117	1500	Leads	Leads	1 3/8	2 7/8	1 3/8	2 3/8	—	.60
	P-8393	A	12.0	1.200	117	1500	Leads	Leads	2	3 1/4	1 5/8	2 13/16	—	.85
	P-8657	A	12.0	2.0	117	1500	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.3
	P-8658	A	12.0	4.0	117	1500	Leads	Leads	2 5/8	4	2 1/4	3 9/16	—	2.3
	P-8659	NV	12.0	6.0	117	1500	Leads	Leads	3 7/16	2 13/16	2 5/8	2 1/4	2 1/8	3.4
	P-8660	NV	12.0	8.0	117	1500	Leads	Leads	3 13/16	3 1/8	2 3/4	2 1/2	2 1/8	4.3
C	P-8384	A	12.6C.T.	1.0	117	1500	Leads	Leads	2	3 1/4	1 3/4	2 13/16	—	.9
	P-8550	A	12.6C.T.	1.5	115	1500	Leads	Leads	1 15/16	3 5/16	2	2 13/16	—	1.3
D	P-8130	A	12.6C.T.	2.0	117	1500	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.4
	P-8715	A	12.6C.T.	2.0	230	1500	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.4
	P-8358	A	12.6C.T.	3.0	117	1500	Leads	Leads	2 3/8	3 3/4	2 1/4	3 1/8	—	1.6
	P-8641	A	12.6C.T.	4.0	117	1500	Leads	Leads	2 5/8	4	2 3/8	3 9/16	—	2.3
	P-8642	C	12.6C.T.	6.0	117	1500	Leads	Leads	3 1/2	2 13/16	3 3/8	2 1/4	2 3/16	3.8
	P-8643	C	12.6C.T.	8.0	117	1500	Leads	Leads	3 3/8	3 1/8	3 3/8	2 1/2	2 3/8	5.0
	P-8644	C	12.6C.T.	10.0	117	1500	Leads	Leads	4 1/4	3 7/16	3 7/8	2 3/4	2 3/4	6.3
	P-8716	A	12.6C.T.	4.0	230	2500	Leads	Leads	2 5/8	4	2 3/8	3 9/16	—	2.3
E	P-8577	A	14.0C.T.	.250	115/230	1500	Leads	Leads	1 3/8	2 3/8	1 1/2	2	—	.3
	P-8553	A	14.0C.T.	.250	115	1500	Leads	Leads	1 3/8	2 3/8	1 3/8	2	—	.4
	P-8555	A	14.0C.T.	1.0	115	1500	Leads	Leads	1 15/16	3 1/4	1 3/4	2 13/16	—	1.2
	P-8556	A	14.0C.T.	2.0	115	1500	Leads	Leads	2 1/4	3 1 1/16	1 15/16	3 1/8	—	1.5
	P-8557	NV	14.0C.T.	4.0	115	1500	Leads	Leads	3	2 1/2	2 7/16	2	2 1/4	3.0
	P-8558	NV	14.0C.T.	6.0	115	1500	Leads	Leads	3 3/8	2 13/16	2 7/8	2 1/4	2 3/8	4.0
F	P-8690	A	18.0C.T.	.750	115	1500	Leads	Leads	1 15/16	3 5/16	2	2 13/16	—	1.3
	P-8691	A	18.0C.T.	1.0	115	1500	Leads	Leads	1 15/16	3 5/16	2 1/8	2 13/16	—	1.5
	P-8692	A	18.0C.T.	1.5	115	1500	Leads	Leads	2 9/32	3 3/4	2 1/8	3 1/8	—	1.7
	P-8693	A	18.0C.T.	2.0	115	1500	Leads	Leads	2 9/32	3 3/4	2 1/4	3 1/8	—	2.0
G	P-8500	A	20.0C.T.	.050	115/230	2500	Leads	Leads	1 1/4	2 1/8	1 1/4	1 3/4	—	.3
	P-8504	A	20.0C.T.	.250	115/230	2500	Leads	Leads	1 3/8	2 3/8	1 3/8	2	—	.4
	P-8505	A	20.0C.T.	.300	115/230	2500	Leads	Leads	1 3/8	2 3/8	1 3/8	2	—	.6
	P-8507	A	20.0C.T.	.500	115/230	2500	Leads	Leads	1 3/8	2 7/8	1 1/2	2 3/8	—	.8
	P-8508	A	20.0C.T.	1.0	115/230	2500	Leads	Leads	2	3 1/4	2 1/4	2 13/16	—	1.4
H	P-8604	A	20.0C.T.	1.0	117	1500	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.4
	P-8559	A	20.0C.T.	2.0	115	1500	Leads	Leads	2 9/16	4	2 1/4	3 9/16	—	2.5
	P-8560	NV	20.0C.T.	4.0	115	1500	Leads	Leads	3 3/8	2 13/16	2 7/8	2 1/4	2 3/8	4.0
I	P-8551 #	A	24.0	1.0	115	1500	Leads	Leads	1 15/16	3 1/4	2 1/8	2 13/16	—	1.4
	P-8694 #	A	24.0	2.0	115	1500	Leads	Leads	2 9/16	4	2	3 9/16	—	2.3
J	P-8394	A	24.0C.T.	.085	117	1500	Leads	Leads	1 1/4	2 1/8	1 1/4	1 3/4	—	.25
	P-8720	A	24.0C.T.	.085	230	1500	Leads	Leads	1 1/4	2 1/8	1 1/4	1 3/4	—	.25
	P-8395	A	24.0C.T.	.200	117	1500	Leads	Leads	1 3/8	2 3/8	1 3/8	2	—	.35
	P-8721	A	24.0C.T.	.200	230	1500	Leads	Leads	1 3/8	2 3/8	1 3/8	2	—	.35
	P-8578	A	24.0C.T.	.200	115/230	1500	Leads	Leads	1 3/8	2 3/8	1 1/2	2	—	.30
	P-8396	A	24.0C.T.	.400	117	1500	Leads	Leads	1 5/8	2 7/8	1 5/8	2 3/8	—	.60
	P-8722	A	24.0C.T.	.400	230	1500	Leads	Leads	1 5/8	2 7/8	1 1/2	2 3/8	—	.60
	P-8397	A	24.0C.T.	.700	117	1500	Leads	Leads	2	3 1/4	1 3/4	2 13/16	—	.85
	P-8723	A	24.0C.T.	.700	230	1500	Leads	Leads	2	3 1/4	1 5/8	2 13/16	—	.85
K	P-8661	A	24.0C.T.	1.0	117	1500	Leads	Leads	2	3 1/4	2 1/16	2 13/16	—	1.4
	P-8575	A	24.0C.T.	1.0	115/230	1500	Leads	Leads	1 15/16	3 5/16	2	2 13/16	—	1.3
	P-8662	A	24.0C.T.	2.0	117	1500	Leads	Leads	2 5/8	4	2 3/8	3 9/16	—	2.3
	P-8663	NV	24.0C.T.	4.0	117	1500	Leads	Leads	3 13/16	3 1/8	2 13/16	2 1/2	2 1/8	4.0
	P-8664	NV	24.0C.T.	6.0	117	1500	Leads	Leads	4 3/16	3 7/16	3	2 3/4	2 1/4	5.7
	P-8665	NV	24.0C.T.	8.0	117	1500	Leads	Leads	4 3/16	3 7/16	3 3/8	2 3/4	2 3/4	7.3
	P-8695	NV	24.0C.T.	10.0	115	1500	Leads	Leads	4 1/8	3 7/16	3 3/4	2 3/4	3	8.0
	P-8666	NV	24.0C.T.	12.0	117	1500	Leads	Leads	4 9/16	3 3/4	4 5/8	3	3 1/4	11.2
L	P-6469	A	25.2	1.0	117	1500	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.4
	P-8707	A	25.2	1.0	230	1500	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.4
	P-8180	A	25.2C.T.	1.0	117	1500	Leads	Leads	2	3 1/4	2 1/4	2 13/16	—	1.4
	P-8357	A	25.2C.T.	2.0	117	1500	Leads	Leads	2 5/8	4	2 1/4	3 9/16	—	2.2
	P-8574	A	25.2C.T.	2.0	115/230	1500	Leads	Leads	2 19/32	4	2 1/4	3 9/16	—	2.2
	P-8388	A	25.2C.T.	2.8	117	1500	Leads	Leads	2 5/8	4	2 1/4	3 9/16	—	2.2
	P-8645	C	25.2C.T.	5.0	117	1500	Leads	Leads	4 1/4	3 7/16	3 7/8	2 3/4	2 1 1/16	6.0
	P-8646	C	25.2C.T.	7.5	117	1500	Leads	Leads	4 1/4	3 1/2	4 1/4	2 3/4	3 1/8	7.3

\*Insulation Test Voltage Twice allowable RMS working voltage plus 1000 volts. †Has electrostatic shield. ▲R.M.S. values.  
 §May be operated from a 400 Hz. source with no change in output ratings. #60 Hz. only.

## CONTROL TRANSFORMERS



### SINGLE SECONDARY: ALL PRIMARIES 50/60 Hz. (cont'd)

S E C T	STANCOR Part No.	Style	Secondary▲		Primary Volts	Insulation Test RMS Volts*	Termination		Dimensions-Inches					Wt. Lbs.
			Volts	Amps.			Pri.	Sec.	Case		Mounting			
			H	W	D	MW	MD							
A	P-8607	A	26.0C.T. Nominal	.25	117‡	2500	Leads	Leads	1 5/8	2 7/8	1 3/4	2 3/8	—	.70
	P-8609	A	26.8C.T.	1.0	117	1500	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.3
B	P-8600	A	28.0C.T.	.085	117	1500	Leads	Leads	1 1/4	2 1/8	1 1/4	1 3/4	—	.25
	P-8601	A	28.0C.T.	.175	117	1500	Leads	Leads	1 3/8	2 3/8	1 3/8	2	—	.35
	P-8602	A	28.0C.T.	.300	117	1500	Leads	Leads	1 5/8	2 7/8	1 5/8	2 3/8	—	.60
	P-8603	A	28.0C.T.	.800	117	1500	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.0
	P-8667	A	28.0C.T.	1.0	117	1500	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.4
	P-8668	NV	28.0C.T.	2.0	117	1500	Leads	Leads	3 1/8	2 1/2	2 1/2	2	2 3/16	2.9
	P-8669	NV	28.0C.T.	4.0	117	1500	Leads	Leads	3 13/16	3 1/8	3 1/4	2 1/2	2 1/2	5.3
	P-8670	NV	28.0C.T.	6.0	117	1500	Leads	Leads	4 9/16	3 7/16	3 1/2	2 3/4	2 5/8	7.0
C	P-8610	A	36.0C.T.	.065	117	1500	Leads	Leads	1 1/4	2 1/8	1 1/4	1 3/4	—	.25
	P-8728	A	36.0C.T.	.065	230	1500	Leads	Leads	1 1/4	2 1/8	1 1/4	1 3/4	—	.25
	P-8611	A	36.0C.T.	.135	117	1500	Leads	Leads	1 3/8	2 3/8	1 3/8	2	—	.35
	P-8612	A	36.0C.T.	.300	117	1500	Leads	Leads	1 5/8	2 7/8	1 5/8	2 3/8	—	.60
	P-8613	A	36.0C.T.	.550	117	1500	Leads	Leads	2	3 1/4	1 7/8	2 13/16	—	1.0
	P-8671	A	36.0C.T.	1.0	117	1500	Leads	Leads	2 3/8	3 3/4	2 1/4	3 1/8	—	2.0
	P-8672	NV	36.0C.T.	2.0	117	1500	Leads	Leads	3 7/16	2 13/16	2 3/4	2 1/4	2 1/8	3.5
	P-8673	NV	36.0C.T.	4.0	117	1500	Leads	Leads	4 3/16	3 1/16	2 7/8	2 3/4	2 3/8	6.0
D	P-8542	A	40.0C.T.	.250	115/230	2500	Leads	Leads	1 5/8	2 7/8	1 1/2	2 3/8	—	.8
	P-8564	A	40.0C.T.	1.0	115	1500	Leads	Leads	2 9/16	4	2 1/4	3 9/16	—	2.6
	P-8566	NV	40.0C.T.	4.0	115	1500	Leads	Leads	3 3/4	3 1/8	3 1/2	2 1/2	2 7/8	6.4
E	P-8605	A	48.0C.T. Nominal	1.0	117‡	2500	Leads	Leads	2 5/8	4	2 3/8	3 9/16	—	2.3
			‡Primary tapped to provide secondary voltages of 45C.T. or 51C.T. or 54C.T.											
F	P-8571	NV	60.0C.T.	2.0	115	1500	Leads	Leads	3 3/4	3 1/8	3 1/8	2 1/2	2 5/8	5.6

\*Insulation Test Voltage Twice allowable RMS working voltage plus 1000 volts. ▲ R.M.S. values.  
 ‡May be operated from a 400 Hz. source with no change in output ranges.

### CONTROL TRANSFORMERS

#### MULTIPLE SECONDARIES: ALL PRIMARIES 50/60 Hz.§

S E C T	STANCOR Part No.	Style	Secondary ▲		Primary Volts	Insulation Test RMS Volts*	Termination		Dimensions-Inches					Wt. Lbs.
			Volts	Amps.			Pri.	Sec.	Case			Mounting		
									H	W	D	MW	MD	
A	P-6428†	C	6.3	1.75	117	2500	Leads	Leads	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>8</sub>	2	2	3.0
			6.3	1.75										
			6.3	1.75										
	P-6429†	C	6.3C.T.	1.75	117	2500	Leads	Leads	3 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>16</sub>	4.8
			6.3	3.5										
			6.3	3.5										
	P-6434	C	6.3	3.5	117	1500	Leads	Leads	3 <sup>1</sup> / <sub>2</sub>	2 <sup>13</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	2	3.5
			6.3C.T.	3.5										
			12.6	2.5										
			12.6C.T.	2.5										

#### DUAL C.T. SECONDARIES: ALL PRIMARIES 50/60 Hz.§†

B	P-8682	S	12.0C.T.	.5	115	1500	Lugs	Lugs	2 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	—	1.1
	P-8683	S	12.0C.T.	.5	115	1500	Lugs	Lugs	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>13</sup> / <sub>16</sub>	—	1.7
			12.0C.T.	1.0										
P-8678	NH	12.0C.T.	4.0	115	1500	Lugs	Lugs	3 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>15</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	4.5	
C	P-8684 #	NH	18.0C.T.	1.0	115	1500	Lugs	Lugs	2 <sup>1</sup> / <sub>2</sub>	3	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	2	2.3
	P-8685 #	NH	18.0C.T.	1.0	115	1500	Lugs	Lugs	3 <sup>1</sup> / <sub>4</sub>	3 <sup>13</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	4.5
			18.0C.T.	2.0										
	P-8686 #	NH	18.0C.T.	2.0	115	1500	Lugs	Lugs	3 <sup>9</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	5.8
			18.0C.T.	4.0										
P-8687 #	NH	18.0C.T.	4.0	115	1500	Lugs	Lugs	3 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	8.9	
D	P-8696	A	32.0C.T.	.25	230	1500	Leads	Leads	2 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	—	1.3
			15.0C.T.	.75										
E	P-8750	A	32.0C.T.	.25	115	1500	Leads	Leads	2 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	—	1.3
			15.5C.T.	.75										
	P-8754	NV	32.0C.T.	1.0	115	1500	Leads	Leads	4 <sup>1</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	7.4
			15.0C.T.	10.0										

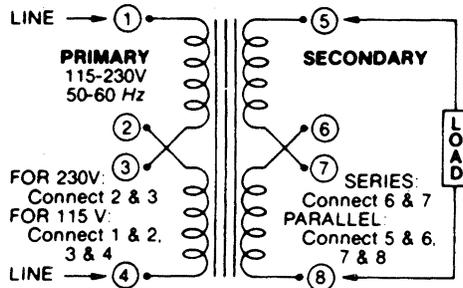
†Has Electrostatic shield. ‡Windings may be connected in series or parallel if properly phased. ALL SECONDARY VOLTAGES ±3%.  
 \*Insulation Test Voltage: Twice allowable RMS Working Voltage plus 1000 Volts. §May be operated from a 400 Hz. source with no change in output ratings.  
 ¶Tapped at 100/105/110/115 Volts ▲R.M.S. values. # For 60 Hz. only.

## Power Transformers

### CONTROL TRANSFORMERS

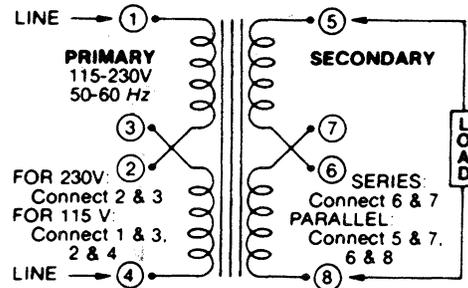
Typical Applications: Automatic Assembly equipment, Relays, Solenoids, Small Motors, Speed Changers, Recording Devices, Pumps, Electronic Tubes, Heating Elements, Elevators, Door Openers, Auto-

matic Musical Instruments, Low Voltage Lighting Signal Lamps, Spark Plug Testers, Control Valves for Fluids and Gases, Fans and Blowers, Mechanical and Electrical Signs.

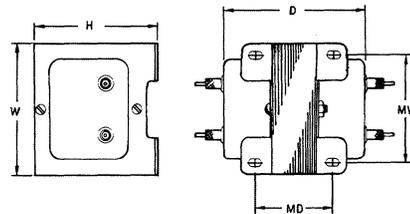
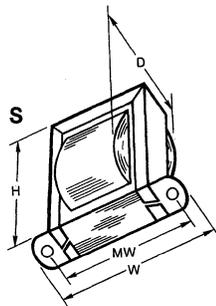
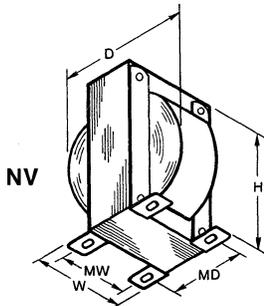


# (Schematic Diagram)  
FOR P-6377, P-6378, P-6379,  
P-8617, P-8618 AND P-8619

#### TERMINATION



# (Schematic Diagram)  
FOR P-6375, P-6376,  
P-8615 AND P-8616



STYLE PCF

® U.L. RECOGNIZED UNIT.

#### PRIMARIES 115/230 VOLTS 50/60 Hz. §—SOLDER LUG TERMINATION—DUAL SECONDARY WINDINGS #

S E C T	STANCOR Part No.	Style	V.A. Cap.	Output From Two Secondary Windings* ▲			Dimensions-Inches					Wt. Lbs.
				Individually	Parallel	Series	Case			Mounting		
							H	W	D	MW	MD	
A	P-6375	S	12	6V. @ 1A.	6V. @ 2A.	12V. @ 1A.	2 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	—	1.0
	P-6376	S	24	6V. @ 2A.	6V. @ 4A.	12V. @ 2A.	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>13</sup> / <sub>16</sub>	—	1.5
B	P-6377	S	48	12V. @ 2A.	12V. @ 4A.	24V. @ 2A.	3 <sup>1</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	—	2.5
	P-6378	NV	96	12V. @ 4A.	12V. @ 8A.	24V. @ 4A.	3 <sup>1</sup> / <sub>2</sub>	2 <sup>13</sup> / <sub>16</sub>	3	2 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	4.2
	P-6379	NV	192	12V. @ 8A.	12V. @ 16A.	24V. @ 8A.	4 <sup>1</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	3	8.0
C	P-8615	S	12	24V. @ .25A.	24V. @ .5A.	48V. @ .25A.	2 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	—	1.0
	P-8616	S	24	24V. @ .5A.	24V. @ 1A.	48V. @ .5A.	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>13</sup> / <sub>16</sub>	—	1.5
	P-8617	S	48	24V. @ 1A.	24V. @ 2A.	48V. @ 1A.	3 <sup>1</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	—	2.5
	P-8618	NV	96	24V. @ 2A.	24V. @ 4A.	48V. @ 2A.	3 <sup>1</sup> / <sub>2</sub>	2 <sup>13</sup> / <sub>16</sub>	3	2 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	4.2
	P-8619	NV	192	24V. @ 4A.	24V. @ 8A.	48V. @ 4A.	4 <sup>1</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	3	8.0

#### POWER CIRCUIT TRANSFORMERS: PRIMARIES 230/460 50/60 Hz.—LEAD WIRE TERMINATION §

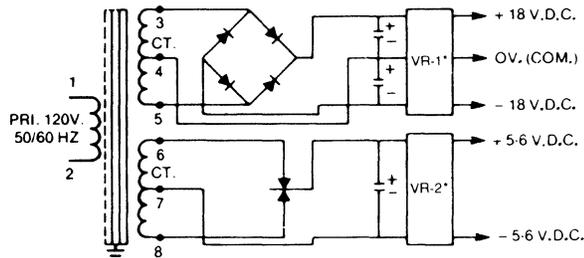
S E C T	STANCOR Part No.	Style	PRIMARY Volts	Secondary ▲			Dimensions-Inches					Wt. Lbs.
				Volts	Amps.	V.A. Cap.	Case			Mounting		
							H	W	D	MW	MD	
D	PCF-24075	PCF	230/460	115	.65	75	3 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	3	2 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>

\*By connecting primaries in series (for 230 Volts) but using only 115 Volts input, a series of half voltage output ratings becomes available at the full rated current from each secondary.

§ (Refer to Schematic Diagram.) ▲ R.M.S. values.  
§ May be operated from a 400 Hz. source with no change in output ratings.

### CONTROL TRANSFORMERS

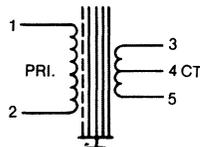
#### TYPICAL CIRCUIT USED WITH PCA-3 and PCA-4 POWER TRANSFORMERS



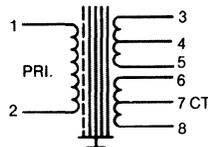
\*VR-1 & VR-2 ARE SOLID STATE VOLTAGE REGULATORS

#### FOR PERIPHERAL COMPUTER ACCESSORIES — “PCA SERIES”

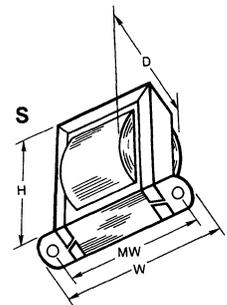
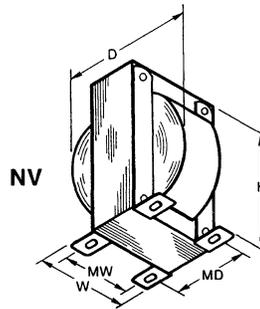
Designed for use in power supplies delivering regulated positive and negative D.C. voltage and separate 5 to 6 Volt regulated D.C. voltage. All transformer ratings are for continuous duty with a 105°C. maximum operating temperature limit. All primaries for 120 volts, 50-60 Hertz. All have electrostatic shield grounded to core internally.



PCA-1, -2



PCA-3, -4



S E C T	STANCOR Part No.	Style	Sec. # 1 A.C.▲		Sec. # 2 A.C.▲		Termination		Dimensions-Inches					Wt. Lbs.
			Volts	Amps.	Volts	Amps.	Pri.	Sec.	Case			Mounting		
									H	W	D	MW	MD	
A	PCA-2	S	33.0C.T.	.35	—	—	Lugs	Lugs	2 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>13</sup> / <sub>16</sub>	—	1.4
B	PCA-3 PCA-4	NV NV	33.0C.T. 34.0C.T.	.21 .35	18C.T. 19C.T.	1.25 2.50	Lugs Lugs	Lugs Lugs	3 <sup>1</sup> / <sub>8</sub> 3 <sup>7</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub> 2 <sup>13</sup> / <sub>16</sub>	2 <sup>5</sup> / <sub>8</sub> 2 <sup>7</sup> / <sub>8</sub>	2 2 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub> 2 <sup>3</sup> / <sub>8</sub>	3.0 3.9

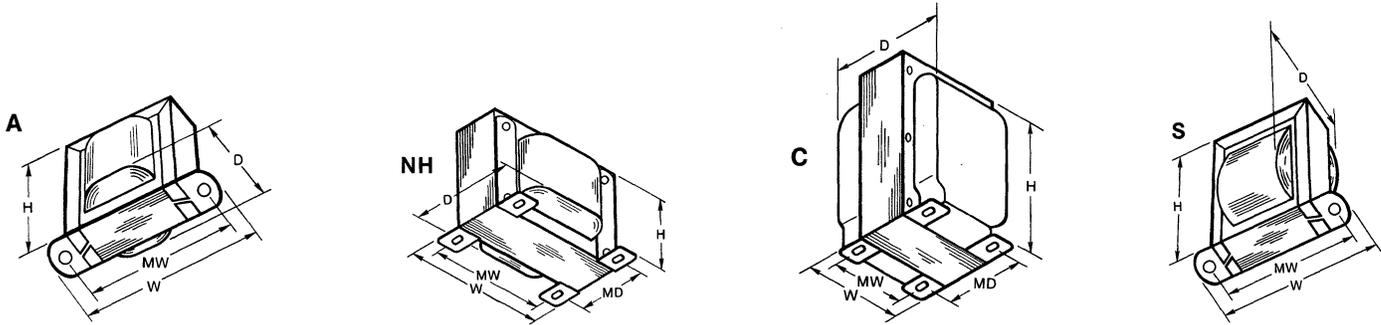
▲R.M.S. values. # Refer to Schematic in Technical Notes Section

#### D.C. OUTPUT RATINGS

STANCOR Part No.	Secondary No. 1 FWB Rectifier	Input Filter Cap.	Secondary No. 2 FWCT Rectifier	Input Filter Cap.
PCA-2	Pos. 21V. D.C. at 250MA. D.C. Neg. 21V. D.C. at 250MA. D.C.	500MF 500MF	—	—
PCA-3	Pos. 21V. D.C. at 150MA. D.C. Neg. 21V. D.C. at 150MA. D.C.	500MF 500MF	8.5V. D.C. at 2.0 Amps. D.C.	1000MF —
PCA-4	Pos. 21V. D.C. at 250MA. D.C. Neg. 21V. D.C. at 250MA. D.C.	500MF 500MF	8.0V. D.C. at 4.0 Amps. D.C.	3000MF —

## Power Transformers

### CONTROL TRANSFORMERS



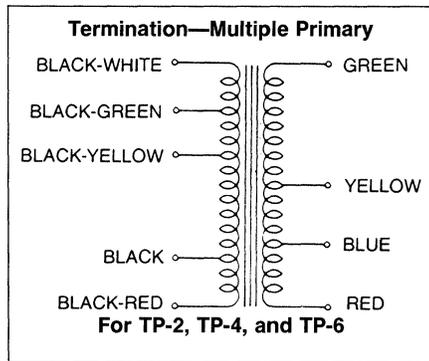
#### PRIMARIES 117 VOLTS 60 Hz. §—LEAD WIRE TERMINATION, EXCEPT †

S E C T	STANCOR Part No.	Style	Secondary # 1		Secondary # 2		Dimensions-Inches					Wt. Lbs.
			Volts	Amperes	Volts	Amperes	Case			Mounting		
							H	W	D	MW	MD	
A	P-8604*	A	20C.T.	1.0 Amps. RMS	—	—	2	3¼	2⅞	2 <sup>13</sup> / <sub>16</sub>	—	1.4
	P-8198†▲	C	54C.T.	.5 Amps. RMS	6.3	.5 Amps. RMS	2 <sup>5</sup> / <sub>8</sub>	2 <sup>9</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>16</sub>	1¾	1⅝	1.7

§May be operated from a 400 Hz. source with no change in output ratings.  
\*May be operated from 117 volts 50/60 Hz. at full-rated load.

†Has solder lug terminations.

▲Secondary leads have lugs attached.



6.5	21C.T.
7.5	22
8	24
9	26.5C.T.
9.5	27
10	28
13.5C.T.	29C.T.
14.5C.T.	31.5
16C.T.	32C.T.
18C.T.	35.5C.T.
19C.T.	37C.T.
20	42C.T.

**Typical Secondary  
AC Voltages  
For TP-2, TP-4, and TP-6**

#### RECTIFIER TRANSFORMERS: PRIMARIES 117 VOLTS 60 Hz. §—LEAD WIRE TERMINATION

Multiple Primary and Secondary Taps offer a wide selection of output Voltages. All DC current ratings are based on capacitor input Filtering.

S E C T	STANCOR Part No.	Style	Max. DCMA			Dimensions-Inches					Wt. Lbs.
			Full-Wave C.T.	Bridge	Half-Wave	Case			Mounting		
						H	W	D	MW	MD	
B	TP-2	A	150	100	50	1⅝	2⅞	1⅞	2⅞	—	.7
	TP-4	C	1500	1000	500	3⅝	2½	3⅝	2	2⅞	3.2
	TP-6	A	50	35	25	1⅞	2⅞	17/16	2	—	.45

§May be operated from a 400 Hz. source with no change in output ratings.

# Refer to Schematic in Technical Notes Section.

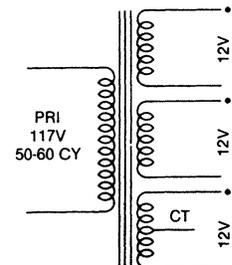
#### VERSATILE LOW CURRENT CONTROL TRANSFORMERS:

##### PRIMARIES 117 VOLTS 50/60 Hz. § LEAD WIRE TERMINATION MULTIPLE SECONDARIES

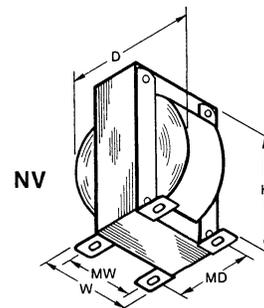
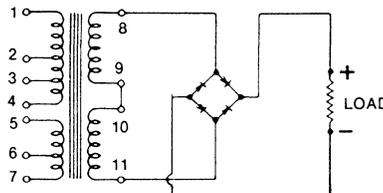
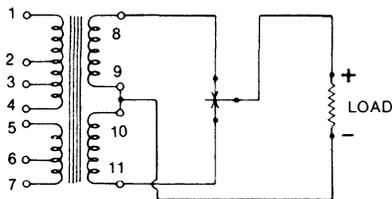
Three isolated 12 Volt Secondaries (one with a center tap) provide many combinations of output voltages and current by series or parallel combinations.

S E C T	STANCOR Part No.	Style	Amperes▲ Each Sec.	Dimensions-Inches				Wt. Lbs.
				Case			Mounting	
				H	W	D	MW	
C	P-8361	S	.10	1¾	2	1½	1¾	.36
	P-8362	S	.15	2	2⅞	1¾	2	.60
	P-8363	S	.25	2⅞	2⅞	1¾	2⅞	.85
	P-8364	S	.50	2⅞	2⅞	2⅞	2⅞	1.25

§May be operated from a 400 Hz. source with no change in output ratings.  
▲R.M.S. values.



### RECTIFIER TRANSFORMERS



(RECTIFIERS NOT INCLUDED)

#### UNIVERSAL RECTIFIER TRANSFORMERS: PRIMARIES 117 VOLTS 50/60 Hz.—SOLDER LUG TERMINATION

S E C T	STANCOR Part No.	Style	Rectifier Circuit	Range of Applied A.C. Volts Under Load (Approx.)	Output Resistive or Inductive Load Max. D.C.		Output Capacitive Load* Max. D.C.		Dimensions-Inches					Wt. Lbs.
					Volts	Amps.	Volts	Amps.	Case			Mounting		
									H	W	D	MW	MD	
A	RT-201	NV	C.T. Bridge	11.7 to 29.4 11.1 to 28.5	11.2 23.0	2.0 1.25	13.8 <sup>1</sup> 30.0 <sup>2</sup>	2.0 1.25	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>8</sub>	2	2 <sup>1</sup> / <sub>8</sub>	2.5
	RT-202	NV	C.T. Bridge	12.0 to 29.8 12.0 to 29.8	11.1 24.3	4.0 2.0	14.7 <sup>3</sup> 33.0 <sup>1</sup>	4.0 2.0	3 <sup>7</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub>	3.8
	RT-204	NV	C.T. Bridge	11.7 to 29.2 11.6 to 29.2	12.0 24.0	8.0 4.0	14.5 <sup>4</sup> 32.4 <sup>3</sup>	8.0 4.0	3 <sup>13</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>8</sub>	6.1
	RT-206	NV	C.T. Bridge	12.0 to 29.7 12.0 to 29.7	11.5 24.0	12.0 6.0	14.4 <sup>5</sup> 32.0 <sup>6</sup>	12.0 6.0	4 <sup>5</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>4</sub>	9.1
	RT-208	NV	C.T. Bridge	12.1 to 29.2 12.1 to 29.2	11.4 23.7	15.0 8.0	14.8 <sup>7</sup> 32.5 <sup>4</sup>	15.0 8.0	4 <sup>9</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	5	2 <sup>15</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	12.6
	B	RT-2012	NV	C.T. Bridge	12.2 to 29.0 12.2 to 29.0	11.4 23.5	22.5 12.0	14.3 <sup>8</sup> 33.0 <sup>5</sup>	22.5 12.0	5 <sup>5</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>
C		RT-401	NV	C.T. Bridge	24.0 to 59.0 24.0 to 59.0	25.0 52.5	2.0 1.0	34.0 <sup>11</sup> 73.5 <sup>9</sup>	2.0 1.0	3 <sup>7</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>
	RT-402	NV	C.T. Bridge	23.0 to 58.0 23.0 to 58.0	25.0 51.5	4.0 2.0	33.5 <sup>6</sup> 72.5 <sup>9</sup>	4.0 2.0	3 <sup>13</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>16</sub>	6.9
	RT-408	NV	C.T. Bridge	25.0 to 54.1 25.0 to 54.1	23.4 46.3	12.0 8.0	32.0 <sup>4</sup> 66.8 <sup>4</sup>	12.0 8.0	5 <sup>5</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>4</sub>	26.5

\*MFD Filter Capacitor: 1-1000, 2-500, 3-2000, 4-4000, 5-6000, 6-3000, 7-7500, 8-12000, 9-15000, 11-25000

### RECTIFIER TRANSFORMERS

Each transformer has the winding arrangement and terminal numbering shown in the schematic diagrams above. The primary windings may be used in series to raise or lower the secondary voltage output. A variety of combinations is possible using the taps on both windings for "Aiding" or "Bucking" action.

Designed for 117 V, 50/60 cycle operation; however, may be satisfactorily operated at 400 cycles.

The secondary winding of each transformer consists of two identical windings connected to terminals 8 & 9 and to 10 & 11 respectively. Use the tables showing the various output voltages for specific terminal connections as your guide. Many combinations are possible other than those listed in the tables. All ratings shown are for normal convection air cooled applications. Select only rectifiers capable of handling the output voltages and currents described.

When operating these transformers continuously at maximum rated output voltage and current and because of certain other conditions, it is sometimes necessary to derate the rectified output current (D.C.) as much as 20%, in order to stay within the recommended operating temperature limit of 105 degrees Centigrade. The type of rectifier circuit and load (capacitive, inductive or resistive) deter-

mines the relative amount of current (RMS) in the transformer secondary winding. The relationship of A.C. to D.C. (secondary RMS current to rectified D.C. output) for typical circuits and loads is given in the Technical Data on Page 38 of this catalog. Operating duty cycle, type of cooling (natural convection in free air or otherwise) and the power line input voltage and frequency also have an effect on the transformer temperature. These things should all be properly related to the results in any specific application.

The "RT-Series" of transformers may also be used in other rectifier circuits than the Full-wave C.T. and Full-wave Bridge shown above. In circuits such as the Half-wave or Full-wave Voltage Doubler (symmetrical) and Full-wave Bridge, where a C.T. connection is not required, both secondary windings may be connected in parallel, to double the RMS current that is available from each secondary separately. The RMS voltage will, of course, be half of the amount available as that obtained with the secondaries connected in series. Please refer to the adjacent data to obtain the secondary RMS current as related to each rectifier circuit and type of load.

Voltages expressed in the tables are approximate and will vary within plus or minus two (2) Volts.

## RECTIFIER TRANSFORMERS

### APPLICATION DATA

RT-201		Full-Wave C.T.				Full-Wave Bridge			
STANCOR Power Supply		Output 2.0 A. D.C.				Output 1.25 A. D.C.			
		Resistive Load		Capacitive Load*		Resistive Load		Capacitive Load†	
Input 117 VAC Term No.	Connect Term. No.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.
1-2	—	29.4	11.2	28.8	13.8	28.5	23.0	27.9	30.0
1-7	2-6	26.0	9.8	25.7	11.7	25.4	20.0	25.1	26.4
1-6	2-5	23.0	8.4	22.7	9.9	22.3	17.3	21.8	22.2
1-7	2-5	20.9	7.4	20.8	8.6	20.2	15.4	19.8	19.7
1-3	—	19.4	6.7	19.1	7.6	18.6	13.9	18.2	17.6
1-7	3-6	17.8	6.1	17.6	6.7	17.2	12.8	16.8	15.7
1-6	3-5	16.3	5.3	16.1	6.0	15.7	11.2	15.2	13.8
1-7	3-5	14.9	4.7	14.8	5.3	14.3	10.3	14.1	12.4
1-4	—	14.2	4.4	14.2	5.0	13.7	9.7	13.5	11.6
1-7	4-6	13.4	4.0	13.3	4.4	12.7	8.8	12.5	10.4
1-6	4-5	12.4	3.6	12.4	3.9	11.7	7.9	11.7	9.5
1-7	4-5	11.7	3.3	11.7	3.5	11.1	7.4	11.1	8.7

\*1000 MFD

†500 MFD

RT-202		Full-Wave C.T.				Full-Wave Bridge			
STANCOR Power Supply		Output 4.0 A. D.C.				Output 2.0 A. D.C.			
		Resistive Load		Capacitive Load*		Resistive Load		Capacitive Load†	
Input 117 VAC Term No.	Connect Term. No.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.
1-2	—	29.7	11.1	29.3	14.7	29.7	24.3	29.3	33.0
1-7	2-6	26.2	9.8	26.0	12.6	26.2	21.5	26.0	29.0
1-6	2-5	24.4	8.8	24.0	11.3	24.3	19.5	23.9	26.0
1-7	2-5	21.9	7.8	21.7	9.9	21.8	17.6	21.5	23.1
1-3	—	20.9	7.4	20.7	9.3	20.9	16.6	20.6	21.7
1-7	3-6	19.2	6.6	18.9	8.2	19.1	15.1	18.9	19.6
1-6	3-5	18.0	6.1	17.8	7.5	18.0	14.2	17.8	18.2
1-7	3-5	16.6	5.5	16.4	6.6	16.6	12.8	16.4	16.3
1-4	—	14.4	4.4	14.2	5.3	14.4	11.8	14.2	13.7
1-7	4-6	13.5	4.1	13.4	4.9	13.5	10.1	13.4	12.6
1-6	4-5	12.9	3.9	12.7	4.4	12.9	9.5	12.7	11.7
1-7	4-5	12.2	3.7	12.0	4.0	12.2	8.9	12.0	10.8

\*2000 MFD

†1000 MFD

RT-204		Full-Wave C.T.				Full-Wave Bridge			
STANCOR Power Supply		Output 8.0 A. D.C.				Output 4.0 A. D.C.			
		Resistive Load		Capacitive Load*		Resistive Load		Capacitive Load†	
Input 117 VAC Term. No.	Connect Term. No.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.
1-2	—	29.2	12.0	28.8	14.5	29.2	24.0	29.0	32.4
1-7	2-6	25.7	10.5	25.7	12.6	25.7	21.1	25.4	29.2
1-6	2-5	22.8	9.2	22.8	10.9	22.8	18.7	22.7	25.7
1-7	2-5	20.6	8.3	20.6	9.6	20.7	16.6	20.6	22.8
1-3	—	19.3	7.7	19.3	8.7	19.4	15.4	19.0	21.0
1-7	3-6	17.6	7.0	17.6	7.8	17.8	14.0	17.6	19.0
1-6	3-5	16.2	6.3	16.2	6.9	16.3	12.7	16.1	17.2
1-7	3-5	15.0	5.8	15.0	6.3	15.1	11.6	14.9	15.6
1-4	—	14.2	5.4	14.2	5.8	14.4	11.0	14.2	14.8
1-7	4-6	13.3	5.0	13.3	5.3	13.4	10.2	13.3	13.5
1-6	4-5	12.5	4.6	12.5	4.9	12.6	9.4	12.5	12.4
1-7	4-5	11.7	4.3	11.7	4.5	11.8	8.8	11.6	11.4

\*4000 MFD.

†2000 MFD.

### RECTIFIER TRANSFORMERS

#### APPLICATION DATA

RT-206		Full-Wave C.T.				Full-Wave Bridge			
STANCOR Power Supply		Output 12.0 A. D.C.				Output 6.0 A. D.C.			
		Resistive Load		Capacitive Load*		Resistive Load		Capacitive Load†	
Input 117 VAC Term. No.	Connect Term No.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.
1-2	—	29.8	11.5	29.6	14.4	29.6	24.0	29.2	32.0
1-7	2-6	26.0	9.9	25.8	12.0	25.8	20.6	25.4	27.3
1-6	2-5	23.8	8.8	23.6	10.7	23.8	18.6	23.6	24.6
1-7	2-5	21.2	7.6	21.0	9.0	21.2	16.4	21.0	21.4
1-3	—	19.7	7.0	19.7	8.4	19.7	15.2	19.4	19.2
1-7	3-6	17.9	6.2	17.8	7.2	17.9	13.5	17.8	17.3
1-6	3-5	16.7	5.7	16.6	6.6	16.8	12.5	16.6	15.8
1-7	3-5	15.4	5.1	15.4	5.9	15.4	11.4	15.2	14.0
1-4	—	14.6	4.7	14.5	5.2	14.6	10.6	14.5	13.4
1-7	4-6	13.5	4.2	13.4	4.7	13.5	9.8	13.4	12.0
1-6	4-5	12.9	3.9	12.8	4.3	12.9	9.2	12.8	11.0
1-7	4-5	12.0	3.4	12.0	3.9	12.0	8.4	12.0	10.0

\* 6000 MFD.

† 3000 MFD.

RT-208		Full-Wave C.T.				Full-Wave Bridge			
STANCOR Power Supply		Output 15.0 A. D.C.				Output 8.0 A. D.C.			
		Resistive Load		Capacitive Load*		Resistive Load		Capacitive Load†	
Input 117 VAC Term. No.	Connect Term No.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.
1-2	—	29.2	11.4	29.2	14.8	29.2	23.7	29.0	32.5
1-7	2-6	25.4	9.9	25.4	12.5	25.3	21.0	25.2	27.0
1-6	2-5	24.1	9.3	24.0	11.6	24.0	19.4	23.9	25.5
1-7	2-5	21.5	8.2	21.5	10.0	21.3	17.0	21.3	22.0
1-3	—	19.3	7.1	19.3	8.7	19.1	14.9	19.1	21.2
1-7	3-6	17.6	6.4	17.5	7.7	17.4	13.4	17.4	17.0
1-6	3-5	16.8	6.0	16.8	7.2	16.8	12.9	16.7	16.1
1-7	3-5	15.6	5.5	15.5	6.5	15.4	11.7	15.4	14.5
1-4	—	14.4	5.0	14.4	5.7	14.2	10.7	14.2	13.1
1-7	4-6	13.4	4.5	13.4	5.1	13.3	9.8	13.3	11.9
1-6	4-5	13.0	4.3	12.9	4.8	12.9	9.5	12.8	11.4
1-7	4-5	12.2	3.9	12.1	4.4	12.1	8.7	12.1	10.4

\* 7500 MFD.

† 4000 MFD.

RT-2012		Full-Wave C.T.				Full-Wave Bridge			
STANCOR Power Supply		Output 22.5 A. D.C.				Output 12.0 A. D.C.			
		Resistive Load		Capacitive Load*		Resistive Load		Capacitive Load†	
Input 117 VAC Term. No.	Connect Term No.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.
1-2	—	29.1	11.4	28.8	14.3	29.0	23.5	28.7	33.0
1-7	2-6	25.2	9.7	25.1	12.0	25.3	20.4	25.1	28.0
1-6	2-5	23.6	8.9	23.6	10.9	23.5	18.8	23.5	25.7
1-7	2-5	21.1	7.7	21.0	9.4	21.0	16.3	20.9	22.3
1-3	—	19.3	7.2	19.3	8.3	19.2	14.8	19.2	20.2
1-7	3-6	17.7	6.3	17.7	7.2	17.5	13.4	17.5	17.7
1-6	3-5	16.9	6.0	16.9	6.7	16.8	12.5	16.8	16.7
1-7	3-5	15.6	5.4	15.7	5.9	15.5	11.5	15.5	15.1
1-4	—	14.6	4.9	14.6	5.4	14.5	10.7	14.5	13.7
1-7	4-6	13.5	4.4	13.5	4.7	13.5	9.7	13.4	12.6
1-6	4-5	13.0	4.3	13.0	4.5	13.0	9.3	13.0	11.9
1-7	4-5	12.2	3.9	12.1	4.0	12.2	8.6	12.0	10.8

\* 11,250 MFD.

† 6000 MFD.

# Power Transformers



## RECTIFIER TRANSFORMERS

### APPLICATION DATA

RT-401		Full-Wave C.T.				Full-Wave Bridge			
STANCOR Power Supply		Output 2.0 A. D.C.				Output 1.0 A. D.C.			
		Resistive Load		Capacitive Load*		Resistive Load		Capacitive Load†	
Input 117 VAC Term. No.	Connect Term No.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.
1-2	—	59.0	25.0	59.0	34.0	59.5	52.5	59.5	73.5
1-7	2-6	53.0	22.0	52.5	30.0	53.0	46.5	52.5	65.0
1-6	2-5	48.5	20.0	48.0	27.0	48.5	43.0	48.0	59.5
1-7	2-5	43.5	18.0	43.5	24.0	44.0	39.0	44.0	53.5
1-3	—	42.0	17.0	42.0	22.5	42.0	37.0	42.0	51.0
1-7	3-6	38.0	15.0	38.0	20.5	38.5	33.5	38.5	46.5
1-6	3-5	36.0	14.5	36.0	19.0	36.0	31.5	36.0	43.5
1-7	3-5	33.0	13.0	33.0	17.0	33.5	29.0	33.5	40.0
1-4	—	29.0	11.0	29.0	14.5	29.0	25.0	29.0	34.5
1-7	4-6	27.0	10.5	27.0	13.0	27.0	23.0	27.0	32.0
1-6	4-5	25.5	10.0	25.5	12.5	26.0	22.0	26.0	30.5
1-7	4-5	24.0	9.0	24.0	11.5	24.5	20.5	24.5	28.5

\* 2500 MFD.

† 1500 MFD.

RT-402		Full-Wave C.T.				Full-Wave Bridge			
STANCOR Power Supply		Output 4.0 A. D.C.				Output 2.0 A. D.C.			
		Resistive Load		Capacitive Load*		Resistive Load		Capacitive Load†	
Input 117 VAC Term. No.	Connect Term No.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.
1-2	—	58.0	25.0	58.0	33.5	58.0	51.5	58.0	72.5
1-7	2-6	51.0	21.5	51.0	29.0	51.0	45.0	51.0	63.5
1-6	2-5	45.5	19.0	45.5	25.0	45.5	40.0	45.5	56.0
1-7	2-5	41.0	17.0	41.0	22.0	41.0	36.0	41.0	50.0
1-3	—	38.0	15.5	38.0	20.5	38.5	33.5	38.5	46.5
1-7	3-6	35.0	14.0	35.0	18.5	35.0	30.5	35.0	42.5
1-6	3-5	32.0	13.0	32.0	16.5	32.0	28.0	32.0	39.0
1-7	3-5	29.5	12.0	29.5	15.0	30.0	26.0	30.0	36.0
1-4	—	28.0	11.0	28.0	14.0	28.5	24.5	28.5	33.5
1-7	4-6	26.0	10.0	26.0	13.0	26.5	22.5	26.5	31.5
1-6	4-5	24.5	9.5	24.5	12.0	25.0	21.0	25.0	29.0
1-7	4-5	23.0	9.0	23.0	11.0	23.5	20.0	23.5	27.0

\* 3000 MFD.

† 1500 MFD.

RT-408		RT-408 Full-Wave Bridge			
STANCOR Power Supply		Output 8.0 A. D.C.			
		Resistive Load		Capacitive Load*	
Input 117 VAC Term. No.	Connect Term No.	Sec. Volts A.C.	Output Volts D.C.	Sec. Volts A.C.	Output Volts D.C.
1-2	—	53.5	44.0	53.0	63.0
1-7	2-6	50.0	40.5	50.0	59.0
1-6	2-5	45.3	37.0	45.0	52.0
1-7	2-5	42.5	34.5	42.0	48.0
1-3	—	37.5	30.5	37.5	40.0
1-7	3-6	35.5	27.5	35.5	39.0
1-6	3-5	32.5	25.0	33.0	35.5
1-7	3-5	31.5	24.0	31.5	31.5
1-4	—	29.0	21.5	29.0	29.5
1-7	4-6	27.5	20.5	27.5	28.0
1-6	4-5	26.0	19.5	26.0	26.0
1-7	4-5	25.0	18.0	25.0	25.0

\* 4300 MFD.

### PLATE AND FILAMENT TYPE

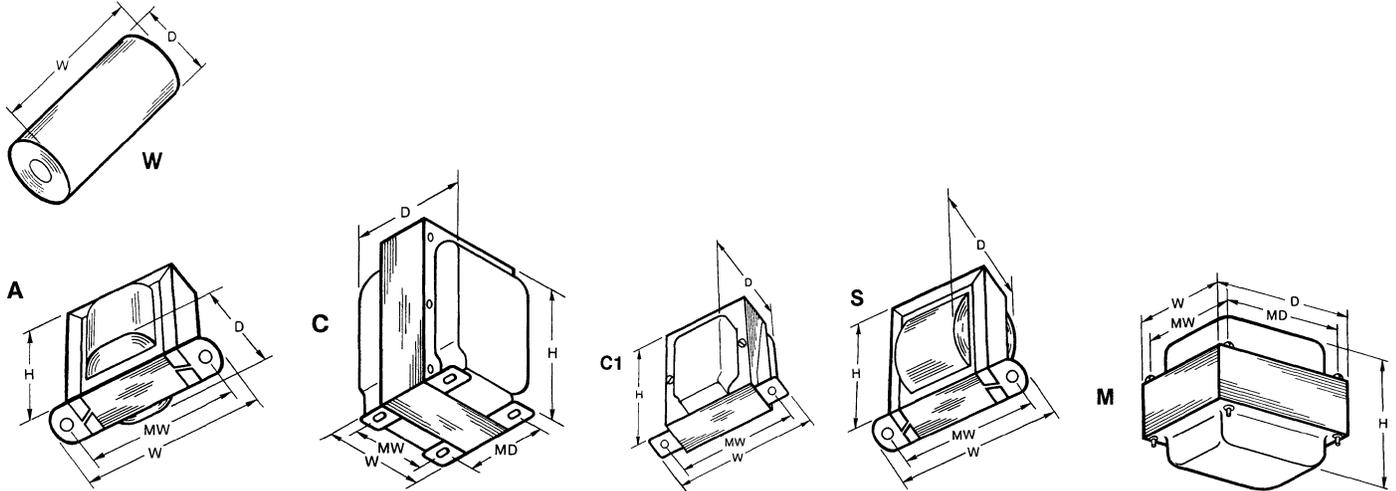
Stancor's line of commercial grade power transformers offer a choice of standard mounting styles. Listings are in ascending order of plate-supply voltage for ease of selection.

All units are designed and built to meet the exacting requirements for EIA electrical tolerances, dielectric strength, temperature rise and construction. All are insulated with class A materials (105°C max. operating temperature). Transformers designed for full-wave C.T. rectification with

capacitor input filter may be used with choke input filter allowing an increase in D.C. current of 30%.

Transformers designed for full-wave C.T. rectification with choke input filter may be used with capacitor input filter requiring a decrease in D.C. current of 25%.

**CONSULT FACTORY** for detailed information concerning electrical rating and/or mechanical characteristics.



#### FOR CAPACITOR INPUT SYSTEMS: PRIMARIES 117 VOLTS 60 Hz. §

S E C T	STANCOR Part No.	Style	Plate Winding		Other Windings		Termination		Dimension-Inches					Wt. Lbs.
			A.C. Volts	DCMA	Volts	Amps.	Pri.	Sec.	Case			Mounting		
									H	W	D	MW	MD	
A	PS-8415	S	125†	15	6.3	.6	Leads	Leads	1 <sup>15</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	2	—	.7
B	PS-8416	S	125-0-125	25	6.3	1.0	Leads	Leads	2 <sup>5</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub>	—	1.0
C	PA-8421	A	125†	50	6.3	2.0	Leads	Leads	2 <sup>1</sup> / <sub>4</sub>	3 <sup>11</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	—	1.5

† For use in Half-Wave Circuits. § May be operated from a 400 Hz. source with no change in output ratings. ALL SECONDARY A. C. VOLTAGES ±3%.

#### FOR CAPACITOR INPUT SYSTEMS: PRIMARIES 117 VOLTS 60 Hz. §

S E C T	STANCOR Part No.	Style	Plate Winding		Rectifier Fila.		Other Windings		Termination		Dimensions-Inches					Wt. Lbs.
			A.C. Volts	DCMA	Volts	Amps.	Volts	Amps.	Pri.	Sec.	Case			Mounting		
											H	W	D	MW	MD	
D	PM-8420	M	260-0-260	90			6.3	4.0	Leads	Leads	3 <sup>1</sup> / <sub>2</sub>	2 <sup>13</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	2 <sup>14</sup> / <sub>16</sub>	3.5
E	P-8356	C†	270-0-270	260	5.0	3.0	6.3	8.8	Leads	Leads	3 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	6.5
F	PC-8406	C	325-0-325	40	5.0	2.0	6.3C.T.	2.0	Leads	Leads	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	2	1 <sup>11</sup> / <sub>16</sub>	2.4
G	PC-8410	C	360-0-360	120	5.0	3.0	6.3C.T.	3.5	Leads	Leads	3 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>16</sub>	5.5
H	PC-8412	C	400-0-400	200	5.0	3.0	6.3C.T.	5.0	Leads	Leads	4 <sup>11</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	4	3	2 <sup>13</sup> / <sub>16</sub>	8.2

† With Copper shorting band to reduce external Magnetic Field.

§ May be operated from a 400 Hz. source with no change in output ratings. ALL SECONDARY A.C. VOLTAGES ±3%.

#### FOR 100 WS ELECTRONIC PHOTOFLASH: PRIMARIES 105/115/125 VOLTS 60 Hz. §

I	P-6425	S	380†	20					Leads	Leads	2 <sup>5</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>8</sub>	2	2 <sup>3</sup> / <sub>8</sub>	—	1.4
										Charges 1050 mfd. to 450 volts D.C.						
J	P-6426	W	Trigger Coil for use with P-6425. Ratio 1 to 35						Leads	Leads	—	3 <sup>4</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	—	—	.2

† For use in Half-Wave Circuits § May be operated from a 400 Hz. source with no change in output ratings. ALL SECONDARY A.C. VOLTAGES ±3%.

## Power Transformers

### AUTO TRANSFORMERS

#### STEP-DOWN AUTO-TRANSFORMERS: PRIMARY 230V, 50/60 Hz§

Three Conductor Line Cord and Receptacle CASE AND CORE INTERNALLY CONNECTED TO THIRD CONDUCTOR OF NEMA STANDARD CORD AND RECEPTACLE FOR SAFETY†

S E C T	STANCOR Part No.	Input Voltage	Output Voltage	Amps	V.A. Cap.	RMS Test Voltage	Style	Dimensions-Inches					Wt. Lbs.
								Case			Mounting		
								H	W	D	MW	MD	
A	P-6287	230	115	.35	40	1500	C	3 1/8	2 1/2	2 1/2	2	1 1/2	2.2
	P-8620†	230	115	.43	50	1500	A	2 5/16	3 1/16	1 7/8	3 1/8	—	1.5
	GSD-75	230	115	.65	75	1500	C	3 7/8	3 3/16	2 3/4	2 1/2	1 1/2	3.0
	P-8630	230	115	.74	85	1500	C	3 1/8	2 1/2	2 3/4	2	1 3/4	2.5
	GSD-100	230	115	.87	100	1500	C	3 7/8	3 3/16	3	2 1/2	1 3/4	3.7
	P-8631	230	115	1.10	125	1500	C	3 1/8	2 1/2	3	2	2	3.0
	GSD-150	230	115	1.3	150	1500	C	3 7/8	3 3/16	3 1/4	2 1/2	2	4.4
	P-8632	230	115	1.74	200	1500	C	3 7/8	3 1/8	3 1/4	2 1/2	2	4.2
	GSD-250	230	115	2.2	250	1500	C	3 7/8	3 3/16	3 5/8	2 1/2	2 3/8	5.8
	GSD-300	230	115	2.6	300	1500	C	3 7/8	3 3/16	3 5/8	2 1/2	2 3/8	5.8
	GSD-350	230	115	3.0	350	1500	C	3 7/8	3 3/16	4 3/16	2 1/2	3	7.3
	P-8634	230	115	3.5	400	1500	C	3 7/8	3 1/8	4 1/4	2 1/2	3	7.0
B	GSD-500	230	115	4.3	500	1500	C	4 5/8	3 13/16	4 7/16	3	3 1/4	10.6
	GSD-750	230	115	6.5	750	1500	C	4 5/8	3 13/16	5 3/16	3	4 1/8	14.4
	GSD-1000	230	115	8.7	1000	1500	C	4 5/8	3 13/16	6	3	5	17.0
	GSD-1500	230	115	13.0	1500	1500	C	5 3/8	4 7/16	6	3 1/2	4 1/4	20.0

§ May be operated from a 400 Hz. source with no change in output ratings.

#### STEP-UP AUTO-TRANSFORMERS: PRIMARY 115 VOLTS 50/60 Hz.

Three Conductor Line Cord and Receptacle CASE AND CORE INTERNALLY CONNECTED TO THIRD CONDUCTOR OF NEMA STANDARD CORD AND RECEPTACLE FOR SAFETY†

S E C T	STANCOR Part No.	Input Voltage	Output Voltage	Amps	V.A. Cap.	RMS Test Voltage	Style	Dimensions-Inches					Wt. Lbs.
								H	W	D	MW	MD	
D	P-8637	115	230	.37	85	1500	C	3 1/8	2 1/2	2 3/4	2	1 3/4	2.5
	P-8638	115	230	.54	125	1500	C	3 1/8	2 1/2	3	2	2	3.0
	P-8639	115	230	1.30	300	1500	C	3 7/8	3 1/8	3 7/8	2 1/2	2 3/8	5.2
	P-8640	115	230	2.17	500	1500	C	4 5/8	3 3/4	4 1/2	3	3 5/16	10.3
	P-8689	115	230	4.35	1000	1500	C	4 5/8	3 3/4	6 1/8	3	4 15/16	17.0

§ May be operated from a 400 Hz. source with no change in output ratings. † Has Leadwires.

### WHY & WHERE AUTO & ISOLATION TRANSFORMERS ARE USED

#### AUTO TRANSFORMERS

Stancors stock Auto Transformers are connected for either step-down or step-up applications involving line voltages of 115 or 230 Volts., 50/60 Hertz. Where it is not necessary to have isolation between the primary and secondary circuits, and a direct connection between them is permissible, the Auto Transformer offers the advantages of smaller size, less weight, and lower cost.

This type of unit is generally used in applications involving American appliances used abroad where our standard 115 Volt equipment must operate from a 230 Volt source. It is also used for foreign appliances designed for 230 Volt operation, which are to be used on our 115 Volt circuits. Our catalog items are designed for continuous rated output on either 50 or 60 Hertz.

**It is important to bear in mind that the Auto/Isolation Transformers change only the voltage levels and do not change the frequency from 50 to 60 Hertz or vice versa. In appliances using synchronous motors, such as clocks or phonograph record changers and players, the speed will be different when using them on a frequency which differs from the frequency they were originally designed. In these cases the manufacturer of the appliance should be consulted to obtain the proper motor.**

The V-A rating is equivalent to a Wattage rating where a resistive load and/or unity power factor exists. When inductive loads such as

motors are used (as in a motor driven appliance) the power factor is not unity and to be accurate the output is expressed in V-A, which is the product of the output voltage and the output current (Amps).

When selecting one of these items for use with an appliance which includes a motor, allowance should be made for the starting current of the motor which is somewhat higher than the running current. This information is generally available from the appliance manufacturer. Information pertaining to the AC Wattage or current required by an appliance is generally marked on the item by the manufacturer and should be observed. It is much better to buy a transformer with a larger V.A. rating than you will actually need because of larger motor starting currents and variations in the line voltage and/or frequency in some locations, which could cause overheating.

#### ISOLATION TRANSFORMERS

Used where a direct connection between primary and secondary circuits is not desired and the circuits must be isolated. This results in a larger, heavier and more costly item for a given power rating. However, in addition to the isolating advantages an electrostatic shield is generally added to minimize capacitive coupling between primary and secondary circuits. This helps to minimize the transfer of unwanted power line transients and interference from other sources connected to the power line by capacitive coupling to the secondary

circuit. The standard insulation test voltage rating between windings and between each winding and the core is 1,500 Volts R.M.S. This is normally sufficient for 115 and 230 Volt operation.

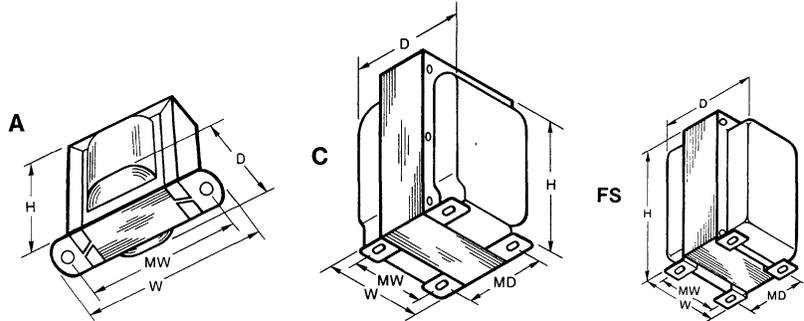
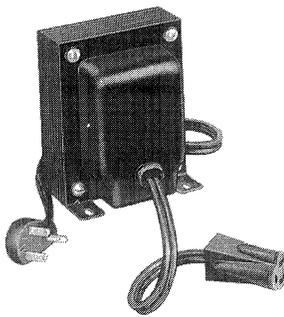
The V-A rating should be selected for each specific application, with allowance for any abnormal load or environmental conditions. All catalog items have an operating temperature limit of 105 Degrees C. (Designed for a 65 Degrees C. maximum temperature rise above a maximum ambient temperature for 40 Degrees C., with unrestricted free air ventilation.) V-A/Amps output ratings are for continuous operation from the specified input voltage and frequency.

#### GENERAL INFORMATION

All of these items have Class "A" insulation and are rated to have a maximum operating temperature limit of 105 Degrees C. These units may be used with rectifiers but the form factor as explained elsewhere in this catalog should be observed for various combinations of rectifier circuits and types of load following the rectifier.

These items are made with our standard N.E.M.A. plugs and receptacles, primarily for use in this country. However, if used overseas where different types of plugs are necessary, an adaptor plug should be used or our plug removed and a foreign plug attached to the end of the line cord.

### ISOLATION TRANSFORMERS



#### STRAIGHT ISOLATION: (Three Conductor Line Cord and Receptacle)

115/115 VOLTS, 50/60 Hz. § CASE AND CORE AND ELECTROSTATIC SHIELD INTERNALLY CONNECTED TO THIRD CONDUCTOR OF NEMA STANDARD CORD AND RECEPTACLE FOR SAFETY

S E C T	STANCOR Part No.	Input Voltage	Output Voltage	Amps	V.A. Cap.	RMS Test Voltage	Style	Dimensions-Inches					Wt. Lbs
								Case			Mounting		
								H	W	D	MW	MD	
A	GIS-100	115	115	.87	100	1500	C	3 1/2	2 13/16	3 9/16	2 1/4	2 7/16	4.5
	GIS-150	115	115	1.30	150	1500	C	3 3/8	3 1/8	4 3/16	2 1/2	2 15/16	7.0
	GIS-250	115	115	2.17	250	1500	C	4 1 1/16	3 3/4	4 3/8	3	3 3/16	9.3
	GIS-500	115	115	4.35	500	1500	C	4 1 1/16	3 3/4	6	3	4 13/16	16.5
	GIS-1000	115	115	8.70	1000	1500	C	5 3/8	4 3/8	8 1/8	3 1/2	6 1/2	31.5

#### STEP-DOWN ISOLATION: (Three Conductor Line Cord and Receptacle)

230/115 VOLTS, 50/60 Hz. § CASE AND CORE AND ELECTROSTATIC SHIELD INTERNALLY CONNECTED TO THIRD CONDUCTOR OF NEMA STANDARD CORD AND RECEPTACLE FOR SAFETY

S E C T	STANCOR Part No.	Input Voltage	Output Voltage	Amps	V.A. Cap.	RMS Test Voltage	Style	Dimensions-Inches					Wt. Lbs
								Case			Mounting		
								H	W	D	MW	MD	
B	GISD-100	230	115	.87	100	1500	C	3 1/2	2 13/16	3 9/16	2 1/4	2 7/16	4.5
	GISD-150	230	115	1.30	150	1500	C	3 3/8	3 1/8	4 3/16	2 1/2	2 15/16	7.0
	GISD-250	230	115	2.17	250	1500	C	4 1 1/16	3 3/4	4 3/8	3	3 3/16	9.0
	GISD-500	230	115	4.35	500	1500	C	4 1 1/16	3 3/4	6	3	4 13/16	16.0
	GISD-1000	230	115	8.70	1000	1500	C	5 3/8	4 3/8	8 1/8	3 1/2	6 1/2	31.0

§ May be operated from a 400 Hz. source with no change in output ratings.

#### STRAIGHT ISOLATION:

##### ELECTROSTATIC SHIELDS GROUNDED TO CORE:

PRIMARIES 50/60 Hz. LINE CORDS § SECONDARY, FEMALE RECEPTACLE, EXCEPT P-6411, P-6412, P-6413 & P-8622 LEAD TERMINATION

S E C T	STANCOR Part No.	Input Voltage	Output Voltage	Amps	V.A. Cap.	RMS Test Voltage	Style	Dimensions-Inches					Wt. Lbs
								Case			Mounting		
								H	W	D	MW	MD	
C	P-6413	115	115	.005	6	1500	A	1 1/4	2 1/8	1 1/4	1 3/4	—	.25
	P-6411	115	115	.13	15	1500	A	2	3 1/4	1 7/8	2 13/16	—	1.0
	P-6412	115	115	.30	35	1500	A	2 5/8	3 3/4	2	3 3/8	—	1.7
	P-6410	115	115	.43	50	1500	C	3 1/2	2 13/16	3 1/8	2 1/4	1 7/8	3.7
D	P-6160	105/115/125 #	115	.87	100	1500	C	4 1 1/16	3 3/4	3 3/4	3	2 9/16	7.0
	P-8622	115 †	115/230 ▲	1.30	150	1500	C	3 7/8	3 3/8	4	2 1/2	2 3/4	6.2
	P-6161	105/115/125 #	115	2.17	250	1500	C	4 1 1/16	3 3/4	5 1/2	3	4 5/16	14.2

#### STEP-DOWN ISOLATION:

##### ELECTROSTATIC SHIELDS GROUNDED TO CORE:

PRIMARIES 50/60 Hz., LINE CORDS § SECONDARY FEMALE RECEPTACLE, EXCEPT ‡

S E C T	STANCOR Part No.	Input Voltage	Output Voltage	Amps	V.A. Cap.	RMS Test Voltage	Style	Dimensions-Inches					Wt. Lbs
								H	W	D	MW	MD	
E	P-6406 ‡	115/230 † *	115	.43	50	1500	A	2 5/8	3 3/4	2 5/16	3 3/8	—	1.8
	P-6385	210/230/250 #	115	2.17	250	1500	C	4 1 1/16	3 3/4	5 1/2	3	4 15/16	14.2

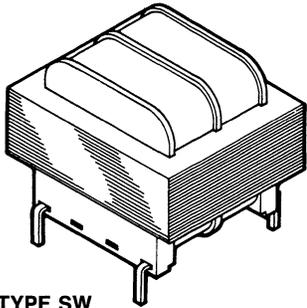
§ May be operated from a 400 Hz. source with no change in output ratings. ▲ Secondary is two separate 115 volt windings. # Has switch. ‡ Has Leadwires.  
\* Primary is two separate 115 volt windings. † Has Electrostatic Shield on separate leadwire (not grounded).

## Power Transformers

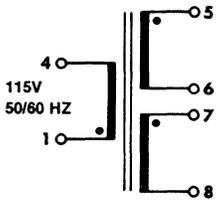
### PRINTED CIRCUIT TRANSFORMERS

#### "SIDE WINDER"

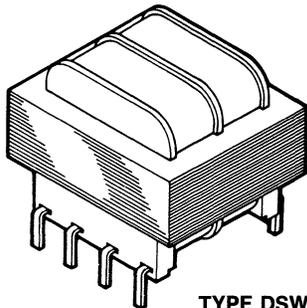
#### SPLIT BOBBIN—PC MOUNT TRANSFORMERS



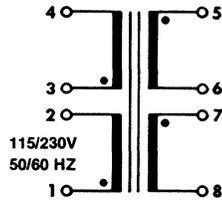
TYPE SW



6 PIN  
TYPE SW



TYPE DSW



8 PIN  
TYPE DSW

Stancor offers this compact transformer with primary and secondaries wound side by side. The "Side Winder" is non-concentrically wound, to reduce size and cost.

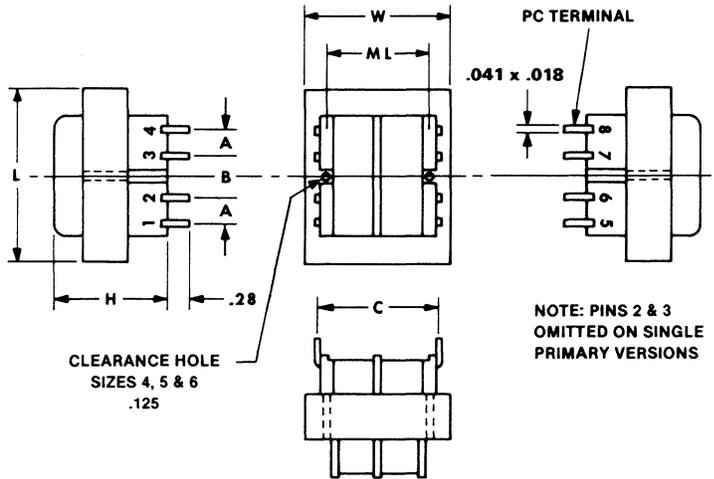
Split bobbin winding and low capacitive coupling design eliminates electrostatic shielding requirement and expense.

- High isolation . . . 2,500 V RMS. Hi-Pot Testing
- PC Pins . . . Precision spaced insert directly into PC Boards
- Class B Insulation . . . 130°C

"Side Winders" are available with Single 115V 50/60 Hz or Dual 115/230V 50/60 Hz Primaries, plus, secondaries are split to permit series or parallel connection.

U.L. RECOGNIZED  
(File Card E-68100)

CSA CERTIFIED  
(File LR 67965)



Size	Dimensions-Inches								Wt. Lbs.
	VA	H	W	L	ML	A	B	C	
2	1.1	15/16	1 1/8	1 3/8	—	.250	.250	1.200	.17
3	2.5	1 3/16	1 1/8	1 3/8	—	.250	.250	1.200	.25
4	6.0	1 5/16	1 5/16	1 3/8	1 1/16	.250	.350	1.280	.44
5	12.0	1 7/16	1 9/16	1 7/8	1 1/4	.300	.400	1.410	.70
6	20.0	1 7/16	1 7/8	2 1/4	1 1/2	.300	.400	1.600	.80

See size as first digit in Part Numbers Listed on Next Page.

### PRINTED CIRCUIT TRANSFORMERS

"SIDE-WINDER"

#### SINGLE & DUAL PRIMARY—SPLIT BOBBIN-PC MOUNT TRANSFORMERS

U.L. RECOGNIZED UNIT. (File Card E-68100) CSA CERTIFIED (File LR 67965)

S E C T	STANCOR Part No.		Secondary RMS Rating		
	Single 115V 6 Pin Input to 1 & 4	Dual 115/230V 8 Pin†	Individual	Series Output Across 5 & 8 Connect 6 & 7	Parallel Output Across 5 & 8 Connect 5 & 7, 6 & 8
A	SW-210	DSW-210	5V @ .11A	10V C.T. @ .11A	5V @ .22A
	SW-310	DSW-310	5V @ .25A	10V C.T. @ .25A	5V @ .5A
	SW-410	DSW-410	5V @ .6A	10V C.T. @ .6A	5V @ 1.2A
	SW-510	DSW-510	5V @ 1.2A	10V C.T. @ 1.2A	5V @ 2.4A
	SW-610	DSW-610	5V @ 2A	10V C.T. @ 2A	5V @ 4A
B	SW-212	DSW-212	6.3V @ .09A	12.6V C.T. @ .09A	6.3V @ .18A
	SW-312	DSW-312	6.3V @ .2A	12.6V C.T. @ .2A	6.3V @ .4A
	SW-412	DSW-412	6.3V @ .5A	12.6V C.T. @ .5A	6.3V @ 1.0A
	SW-512	DSW-512	6.3V @ 1.0A	12.6V C.T. @ 1.0A	6.3V @ 2.0A
	SW-612	DSW-612	6.3V @ 1.6A	12.6V C.T. @ 1.6A	6.3V @ 3.2A
C	SW-216	DSW-216	8V @ .07A	16V C.T. @ .07A	8V @ .14A
	SW-316	DSW-316	8V @ .15A	16V C.T. @ .15A	8V @ .3A
	SW-416	DSW-416	8V @ .4A	16V C.T. @ .4A	8V @ .8A
	SW-516	DSW-516	8V @ .8A	16V C.T. @ .8A	8V @ 1.6A
	SW-616	DSW-616	8V @ 1.25A	16V C.T. @ 1.25A	8V @ 2.5A
D	SW-220	DSW-220	10V @ .055A	20V C.T. @ .055A	10V @ .11A
	SW-320	DSW-320	10V @ .12A	20V C.T. @ .12A	10V @ .24A
	SW-420	DSW-420	10V @ .3A	20V C.T. @ .3A	10V @ .6A
	SW-520	DSW-520	10V @ .6A	20V C.T. @ .6A	10V @ 1.2A
	SW-620	DSW-620	10V @ 1A	20V C.T. @ 1A	10V @ 2A
E	SW-224	DSW-224	12V @ .045A	24V C.T. @ .045A	12V @ .09A
	SW-324	DSW-324	12V @ .1A	24V C.T. @ .1A	12V @ .2A
	SW-424	DSW-424	12V @ .25A	24V C.T. @ .25A	12V @ .5A
	SW-524	DSW-524	12V @ .5A	24V C.T. @ .5A	12V @ 1.0A
	SW-624	DSW-624	12V @ .8A	24V C.T. @ .8A	12V @ 1.6A
F	SW-228	DSW-228	14V @ .04A	28V C.T. @ .04A	14V @ .08A
	SW-328	DSW-328	14V @ .085A	28V C.T. @ .085A	14V @ .17A
	SW-428	DSW-428	14V @ .2A	28V C.T. @ .2A	14V @ .4A
	SW-528	DSW-528	14V @ .42A	28V C.T. @ .42A	14V @ .84A
	SW-628	DSW-628	14V @ .7A	28V C.T. @ .7A	14V @ 1.4A
G	SW-232	DSW-232	16V @ .035A	32V C.T. @ .035A	16V @ .07A
	SW-332	DSW-332	16V @ .075A	32V C.T. @ .075A	16V @ .15A
	SW-432	DSW-432	16V @ .188A	32V C.T. @ .188A	16V @ .376A
	SW-532	DSW-532	16V @ .375A	32V C.T. @ .375A	16V @ .750A
	SW-632	DSW-632	16V @ .625A	32V C.T. @ .625A	16V @ 1.25A
H	SW-236	DSW-236	18V @ .03A	36V C.T. @ .03A	18V @ .06A
	SW-336	DSW-336	18V @ .065A	36V C.T. @ .065A	18V @ .13A
	SW-436	DSW-436	18V @ .17A	36V C.T. @ .17A	18V @ .34A
	SW-536	DSW-536	18V @ .35A	36V C.T. @ .35A	18V @ .7A
	SW-636	DSW-636	18V @ .55A	36V C.T. @ .55A	18V @ 1.1A
I	SW-248	DSW-248	24V @ .023A	48V C.T. @ .023A	24V @ .046A
	SW-348	DSW-348	24V @ .05A	48V C.T. @ .05A	24V @ .1A
	SW-448	DSW-448	24V @ .125A	48V C.T. @ .125A	24V @ .25A
	SW-548	DSW-548	24V @ .25A	48V C.T. @ .25A	24V @ .5A
	SW-648	DSW-648	24V @ .4A	48V C.T. @ .4A	24V @ .8A
J	SW-256	DSW-256	28V @ .02A	56V C.T. @ .02A	28V @ .04A
	SW-356	DSW-356	28V @ .045A	56V C.T. @ .045A	28V @ .09A
	SW-456	DSW-456	28V @ .11A	56V C.T. @ .11A	28V @ .22A
	SW-556	DSW-556	28V @ .22A	56V C.T. @ .22A	28V @ .44A
	SW-656	DSW-656	28V @ .35A	56V C.T. @ .35A	28V @ .7A
K	SW-2120	DSW-2120	60V @ .01A	120V C.T. @ .01A	60V @ .02A
	SW-3120	DSW-3120	60V @ .02A	120V C.T. @ .02A	60V @ .04A
	SW-4120	DSW-4120	60V @ .05A	120V C.T. @ .05A	60V @ .1A
	SW-5120	DSW-5120	60V @ .1A	120V C.T. @ .1A	60V @ .2A
	SW-6120	DSW-6120	60V @ .16A	120V C.T. @ .16A	60V @ .32A

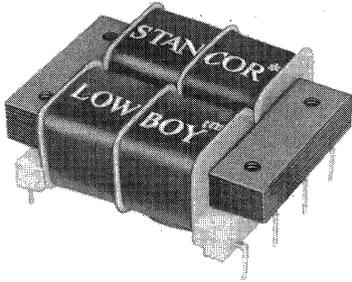
† Input 115V to 1 & 4 Connect 1 & 3, 2 & 4 (Parallel) Input 230V to 1 & 4 Connect 2 & 3 (Series)

# Power Transformers

# STANCOR

## PRINTED CIRCUIT TRANSFORMERS

### Stancor® Low Boy™ Low Profile

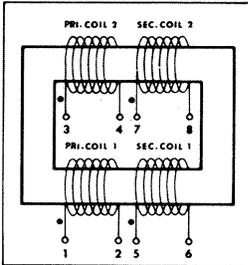


#### ENGINEERING DATA

Non-concentric winding provides isolation by design, eliminating the need for an electrostatic shield. These units have standard precision spaced printed circuit terminals.

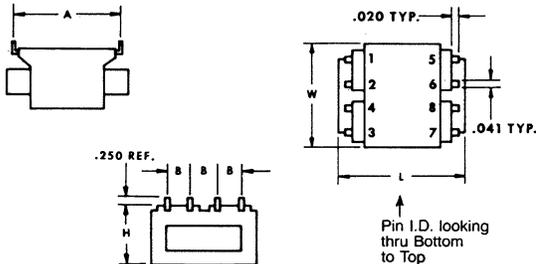
Consult Factory For Special Design Requirements

ITEM A



ITEM B

#### DIMENSIONS



Output V.A.	Dimension-Inches					Wt. Oz.
	H	W	L	A	B	
2, 3	.625	1.562	1.875	1.600	.375	4.5
4, 5, 6	.875	1.562	1.875	1.600	.375	5.5
12	1.062	2.000	2.500	2.000	.500	11.5

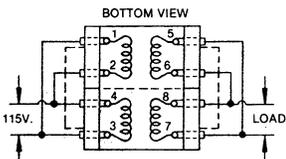
#### SPECIFICATIONS:

LOW-BOY™ — allow 3/4" card spacing for 2 & 3, VA units; 1" for 4, 5, & 6 VA, and 1 1/4" for 12 VA units.  
 DUAL PRIMARIES — versatility!!  
 115/230V. 50/60 Hz  
 SPLIT BOBBIN — side by side windings — (No static shield)

SEMI-TOROIDAL CONSTRUCTION —  
 Reduces Radiated Magnetic Fields and Results in Balanced Windings.  
 HI-POT — 2000 volts standard RMS  
 P.C. TERMINALS — Precision Spaced

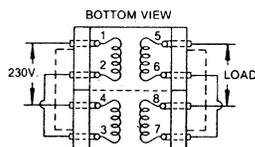
U.L. RECOGNIZED UNIT.  
 (File Card E-68100)

S E C T	STANCOR Part No.	V.A or Watts	Secondary		Wt. Oz.
			Series Output Across 5 & 8 Connect 6 & 7	Parallel Output Across 5 & 7, 6 & 8	
A	LB210	2	10V C.T. @ 200MA	5V @ 400MA	4.5
	LB310	3	10V C.T. @ 300MA	5V @ 600MA	4.5
	LB410	4	10V C.T. @ 400MA	5V @ 800MA	5.5
	LB510	5	10V C.T. @ 500MA	5V @ 1.1A	5.5
	LB610	6	10V C.T. @ 600MA	5V @ 1.2A	5.5
	LB1210	12	10V C.T. @ 1200MA	5V @ 2.4A	11.5
B	LB412	4	12V C.T. @ 333MA	6V @ 667MA	5.5
	LB512	5	12V C.T. @ 417MA	6V @ 833MA	5.5
C	LB612	6	12.6V C.T. @ 450MA	6.3V @ 900MA	5.5
	LB1212	12	12.6V C.T. @ 900MA	6.3V @ 1.8A	11.5
D	LB215	2	15V C.T. @ 150MA	7.5V @ 300MA	4.5
	LB315	3	15V C.T. @ 225MA	7.5V @ 450MA	4.5
E	LB616	6	16V C.T. @ 350MA	8V @ 700MA	5.5
	LB1216	12	16V C.T. @ 700MA	8V @ 1.4A	11.5
F	LB420	4	20V C.T. @ 200MA	10V @ 400MA	5.5
	LB520	5	20V C.T. @ 250MA	10V @ 500MA	5.5
	LB620	6	20V C.T. @ 300MA	10V @ 600MA	5.5
	LB1220	12	20V C.T. @ 600MA	10V @ 1.2A	11.5
G	LB424	4	24V C.T. @ 167MA	12V @ 333MA	5.5
	LB524	5	24V C.T. @ 208MA	12V @ 417MA	5.5
	LB624	6	24V C.T. @ 250MA	12V @ 500MA	5.5
	LB1224	12	24V C.T. @ 500MA	12V @ 1A	11.5
H	LB634	6	34V C.T. @ 170MA	17V @ 340MA	5.5
	LB1234	12	34V C.T. @ 340MA	17V @ 680MA	11.5
I	LB240	2	40V C.T. @ 60MA	20V @ 120MA	4.5
	LB640	6	40V C.T. @ 150MA	20V @ 300MA	5.5
	LB1240	12	40V C.T. @ 300MA	20V @ 600MA	11.5
J	LB256	2	56V C.T. @ 45MA	28V @ 90MA	4.5
	LB656	6	56V C.T. @ 100MA	28V @ 200MA	5.5
	LB1256	12	56V C.T. @ 200MA	28V @ 400MA	11.5
K	LB288	2	88V C.T. @ 28MA	44V @ 56MA	4.5
	LB688	6	88V C.T. @ 65MA	44V @ 130MA	5.5
	LB1288	12	88V C.T. @ 130MA	44V @ 260MA	11.5
L	LB2120	2	120V C.T. @ 20MA	60V @ 40MA	4.5
	LB4120	4	120V C.T. @ 33MA	60V @ 66MA	5.5
	LB5120	5	120V C.T. @ 41.7MA	60V @ 83.3MA	5.5
	LB6120	6	120V C.T. @ 50MA	60V @ 100MA	5.5
M	LB2230	2	230V C.T. @ 10MA	115V @ 20MA	4.5
	LB6230	6	230V C.T. @ 25MA	115V @ 50MA	5.5
	LB12230	12	230V C.T. @ 50MA	115V @ 100MA	11.5



PARALLEL CONNECTION

115V PRI  
 INPUT ACROSS TERMS 1 & 3, 2 & 4  
 LOAD SEC.  
 OUTPUT ACROSS TERMS 5 & 7, 6 & 8



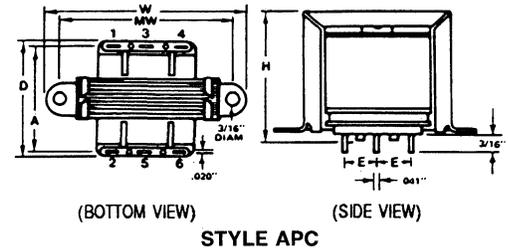
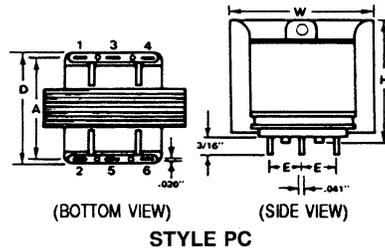
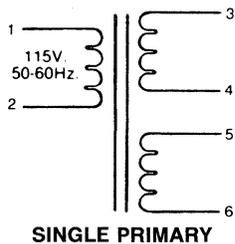
SERIES CONNECTION

230V PRI  
 INPUT ACROSS TERMS 1 & 4, CONNECT 2 & 3  
 LOAD SEC.  
 OUTPUT ACROSS TERMS 5 & 8, CONNECT 6 & 7

### PRINTED CIRCUIT TRANSFORMERS

#### PLUG-IN PRINTED CIRCUIT TYPE POWER TRANSFORMERS FOR SMALL D.C. POWER SUPPLIES

®  U.L. RECOGNIZED UNIT.  
(File Card E-68100)



#### SINGLE PRIMARY FOR 115 VOLTS, 50/60 Hz. INPUT

S E C T	STANCOR Part No.	Style	V.A. Cap.	Output From Two Secondary Windings ▲			Dimensions-Inches						Wt. Lbs.
				Individually	Parallel	Series	Case			Mounting			
							H	W	D	MW	A	E	
C	PPC-1	PC	1.5	4.0V. @ .188A.	4.0V @ .376A.	8.0V. C.T. @ .188A.	1 1/8	1 13/32	1 9/32	—	1	.31	.22
	PPC-2	PC	1.5	7.5V. @ .100A.	7.5V @ .200A.	15V. C.T. @ .100A.	1 1/8	1 13/32	1 9/32	—	1	.31	.22
	PPC-3	PC	1.5	15V. @ .050A.	15V @ .100A.	30V. C.T. @ .050A.	1 1/8	1 13/32	1 9/32	—	1	.31	.22
	PPC-4	PC	1.5	27V. @ .028A.	27V @ .056A.	54V. C.T. @ .028A.	1 1/8	1 13/32	1 9/32	—	1	.31	.22
	PPC-6	PC	1.5	58V. @ .013A.	58V @ .026A.	116V. C.T. @ .013A.	1 1/8	1 13/32	1 9/32	—	1	.31	.22
	PPC-7	PC	1.5	20V. @ .038A.	20V @ .076A.	40V. C.T. @ .038A.	1 1/8	1 13/32	1 9/32	—	1	.31	.22
	D	PPC-11	APC	4.5	4.0V. @ .562A.	4.0V @ 1.13A.	8.0V. C.T. @ .562A.	1 13/32	2 3/8	1 1/4	2	1.1	.4
PPC-12		APC	4.5	7.5V. @ .300A.	7.5V @ .600A.	15V. C.T. @ .300A.	1 13/32	2 3/8	1 1/4	2	1.1	.4	.47
PPC-13		APC	4.5	15V. @ .150A.	15V @ .300A.	30V. C.T. @ .150A.	1 13/32	2 3/8	1 1/4	2	1.1	.4	.47
PPC-14		APC	4.5	27V. @ .084A.	27V @ .168A.	54V. C.T. @ .084A.	1 13/32	2 3/8	1 1/4	2	1.1	.4	.47
PPC-17		APC	4.5	20V. @ .112A.	20V @ .224A.	40V. C.T. @ .112A.	1 13/32	2 3/8	1 1/4	2	1.1	.4	.47
E	PPC-22	APC	7.5	7.5V. @ .500A.	7.5V @ 1.00A.	15V. C.T. @ .500A.	1 5/8	2 3/16	1 15/32	2 3/8	1.3	.4	.66
	PPC-23	APC	7.5	15V. @ .250A.	15V @ .500A.	30V. C.T. @ .250A.	1 5/8	2 3/16	1 15/32	2 3/8	1.3	.4	.66
	PPC-27	APC	7.5	20V. @ .188A.	20V @ .376A.	40V. C.T. @ .188A.	1 5/8	2 3/16	1 15/32	2 3/8	1.3	.4	.66

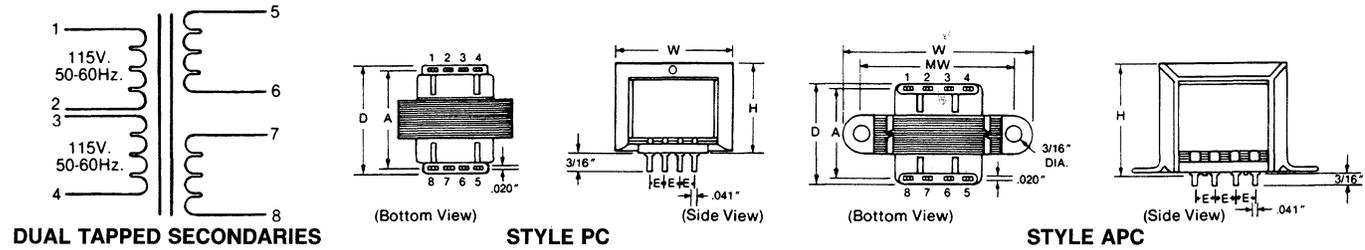
\*All Primaries for 115V., 50-60 Hz. ▲R.M.S. Values.

## Power Transformers

### PRINTED CIRCUIT TRANSFORMERS

For Small D.C. Power Supplies

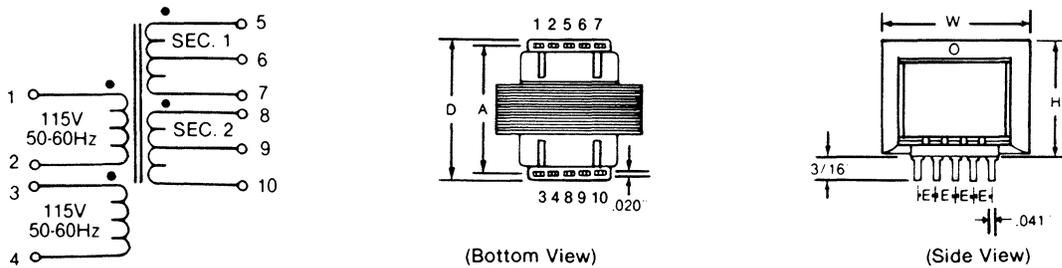
Plug-In Printed Circuit Type Power Transformers (cont'd)



DUAL PRIMARY FOR 115-230 VOLTS 50/60 Hz. INPUT

® U.L. RECOGNIZED UNIT. (File Card E-68100)

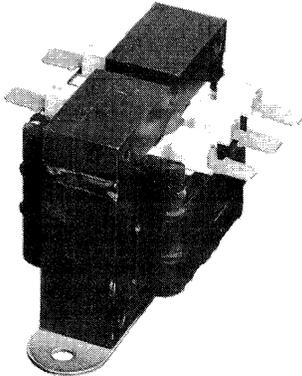
S E C T	STANCOR Part No.	Style	V.A. Cap.	Output From Two Secondary Windings▲			Dimensions-Inches						Wt. Lbs.
				Individually	Parallel	Series	Case			Mounting			
							H	W	D	MW	A	E	
A	PPC-8	PC	1.5	15V. @ 50MA.	15V. @ 100MA.	30V.C.T. @ 50MA.	1 <sup>9</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	—	1.0	.20	.22
	PPC-46	PC	1.5	7.5V. @ 100MA.	7.5V. @ 200MA.	15V.C.T. @ 100MA.	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	—	1.0	.20	.22
	PPC-51	PC	1.5	115V. @ 6.5MA.	115V. @ 13MA.	230V.C.T. @ 6.5MA.	1 <sup>9</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	—	1.0	.20	.22
B	PPC-18	APC	4.5	6.3V. @ 350MA.	6.3V. @ 700MA.	12.6V.C.T. @ 350MA.	1 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2	1.10	.25	.47
	PPC-47	APC	4.5	7.5V. @ 300MA.	7.5V. @ 600MA.	15V.C.T. @ 300MA.	1 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2	1.10	.25	.47
	PPC-19	APC	4.5	8V. @ 280MA.	8V. @ 560MA.	16V.C.T. @ 280MA.	1 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2	1.13	.25	.47
	PPC-28	APC	4.5	10V. @ 225MA.	10V. @ 450MA.	20V.C.T. @ 225MA.	1 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2	1.13	.25	.47
	PPC-20	APC	4.5	12V. @ 180MA.	12V. @ 360MA.	24V.C.T. @ 180MA.	1 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2	1.10	.25	.47
	PPC-48	APC	4.5	15V. @ 150MA.	15V. @ 300MA.	30V.C.T. @ 150MA.	1 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2	1.10	.25	.47
C	PPC-56	PC	24.0	8V. @ 1.5A.	8V. @ 3.0A.	16.0V.C.T. @ 1.5A.	1 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	—	2.11	.25	.90
	PPC-57	PC	24.0	10V. @ 1.2A.	10V. @ 2.4A.	20V.C.T. @ 1.2A.	1 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	—	2.11	.25	.90
	PPC-58	PC	24.0	12V. @ 1.0A.	12V. @ 2.0A.	24V.C.T. @ 1.0A.	1 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	—	2.11	.25	.90



DUAL PRIMARIES FOR 115-230 VOLTS — 50/60 Hz. INPUT

S E C T	STANCOR Part No.	Style	V.A. Cap.	Output From Two Secondary Windings▲ RMS		Dimensions-Inches						Wt. Lbs.
				Secondary No. 1	Secondary No. 2	Case			Mounting			
						H	W	D	MW	A	E	
F	DPC-X-12	PC	6.0	10V.C.T. @ .390A	20V.C.T. @ .107A	1 <sup>5</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>16</sub>	—	1.30	.25	.56
G	DPC-Y-12	PC	15.0	10V.C.T. @ .900A	20V.C.T. @ .270A	1 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	—	2.10	.20	.87
	DPC-Y-15	PC	15.0	10V.C.T. @ .900A	24V.C.T. @ .240A	1 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	—	2.10	.20	.87

### TYPE P-591 ENERGY LIMITING TRANSFORMERS



#### MANUFACTURING APPLICATION

Electronic Game Systems	Spa Control Systems
Computers	Intercoms
Home Environmental Systems	Telephone Systems
Pool Systems	Film Processing Equipment
Security and Alarms	Agriculture Environment
Solar Heating Controls	Controls Systems

Energy-Limiting Transformers are defined as transformers whose winding impedance is such that with the primary energized at maximum rated voltage and frequency, and the secondary short circuited, secondary current will not exceed 8 amperes after one minute.

#### GENERAL DATA

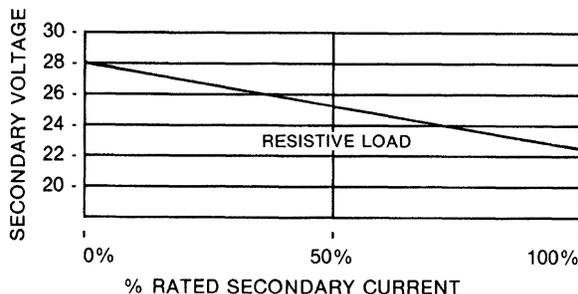
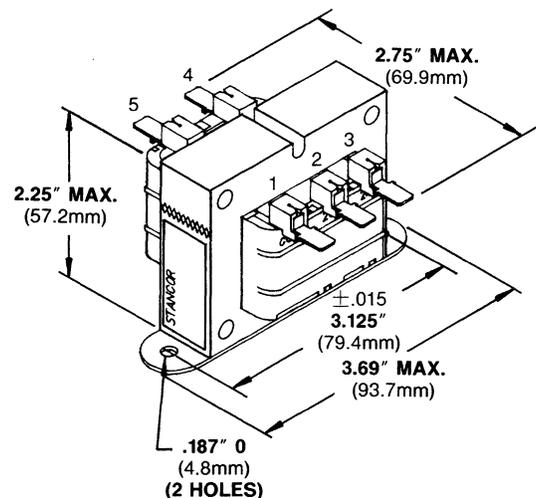
STANCOR Part No.	Volt-Amperes (VA)	Frequency (Hertz)	Primary Input (Volts)	Wt. Lbs.
P-591-900 P-591-901 P-591-902	30	50/60	120 240 208/240	1.20 .54 Kg
P-591-910 P-591-911 P-591-912	40	50/60	120 240 208/240	1.30 .59 Kg

Regulatory information on Class 2 Energy-Limiting Transformers may be found in U.L. 1585 and C.S.A. 22.2 #66.

#### ENGINEERING DATA

Ratings:	30VA and 40VA
Primary Voltages:	120 VAC, 240 VAC, and 208/240 VAC
Secondary Voltages:	24 VAC nominal
Frequencies:	50/60 Hz
Terminations:	.032 x .250 QC (Male)
Construction:	Over/Under Bobbin
<b>U.L. RECOGNIZED</b> (File E-52313)	<b>CSA CERTIFIED</b> (LR 68068)

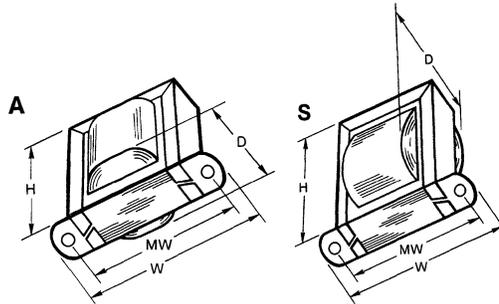
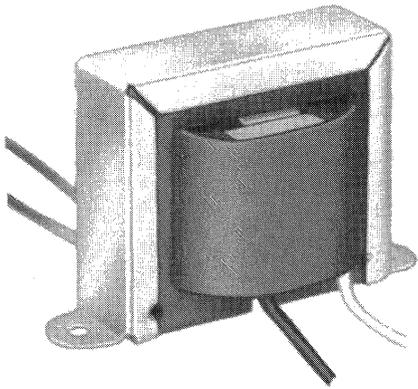
#### OUTLINE DIMENSIONS



Notes: Composite of 30 and 40 VA Regulation Curves. Inductive loads produce slightly different voltages. Above curves subject to 2% manufacturing tolerance.

TERMINAL #2 AND CAVITY OMITTED ON 120 and 240V TRANSFORMERS

## GENERAL PURPOSE AUDIO TRANSFORMERS



Stancor audio transformers fit a large variety of audio designs and requirements. Our audio transformers operate via electromagnetic induction over a broad band of frequencies. They are capable of performing multiple operations such as carrying D.C. in one or more windings, transforming voltage and current levels, acting as an impedance matching or coupling device or as a form of filter-allowing passage of only a limited range of frequencies.

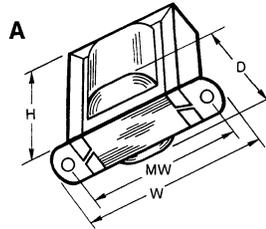
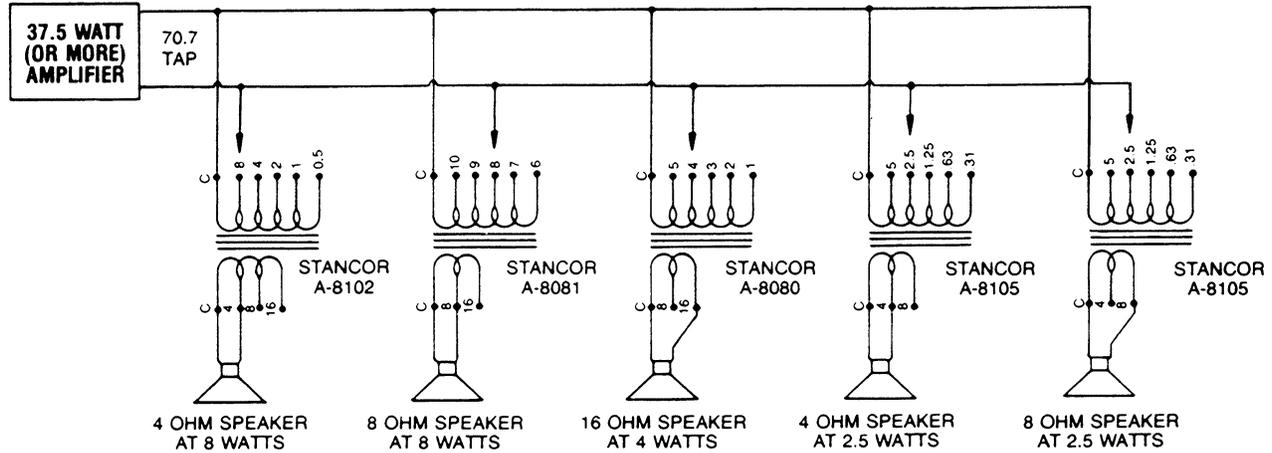
### 25 VOLT LINE TO VOICE COIL — See Page 28 For Technical Data

S E C T	STANCOR Part No.	Style	Impedance in Ohms		Power Steps in Watts	Termination		D.C. Resist		Overall Turns Ratio	Frequency Response in Hz ± 3 DB	RMS Test Voltage	Dimensions-Inches					Wt. Lbs.
			Pri.	Sec.		Pri.	Sec.	Pri.	Sec.				Case			Mounting		
													H	W	D	MW	MD	
A	A-8096	S	78/156/312/ 625/1250	4/8/16	8/4/2/1/0.5	Lugs	Lugs	72	1.0	8.8:1	30-20000	1000	2	2 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2	—	.65
B	A-8097	S	39/78/156/312 625/1250	4/8/16	16/8/4/2/ 1/0.5	Lugs	Lugs	60	1.1	8.68:1	30-20000	1000	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	2 <sup>13</sup> / <sub>16</sub>	—	1.6
C	A-8095	A	125/250/500/ 1000/2000	4/8	5/2.5/1.25/ .62/.31	Lugs	Lugs	100	.6	15.6:1	30-20000	1000	1 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	2	—	.4
D	A-8099	A	312/625/1250	4/8	2/1/0.5	Lugs	Lugs	85	.6	12.2:1	50-15000	1000	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	—	.3

### 70.7 VOLT LINE TO VOICE COIL — See Page 28 For Technical Data; Page 27 For Application Drawing

S E C T	STANCOR Part No.	Style	Impedance in Ohms		Power Steps in Watts	Termination		D.C. Resist		Overall Turns Ratio	Frequency Response in Hz ± 3 DB	RMS Test Voltage	Dimensions-Inches					Wt. Lbs.
			Pri.	Sec.		Pri.	Sec.	Pri.	Sec.				Case			Mounting		
													H	W	D	MW	MD	
E	A-8102	S	625/1250/2500 5000/10000	4/8/16	8/4/2/1/0.5	Lugs	Lugs	670	1.0	24.9:1	50-20000	1000	2	2 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2	—	.7
F	A-8103	S	312/625/1250/ 2500/5000/10000	4/8/16	16/8/4/2/ 1/0.5	Lugs	Lugs	585	1.1	24.5:1	40-15000	1000	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	2 <sup>13</sup> / <sub>16</sub>	—	1.5
G	A-8105	A	1000/2000/4000/ 8000/16000	4/8	5/2.5/1.25/ .62/.31	Lugs	Lugs	950	.6	44.2:1	50-20000	1000	1 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	2	—	.4
H	A-8109	A	2500/5000/10000	4/8	2/1/0.5	Lugs	Lugs	800	.6	34.9:1	50-15000	1000	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	—	.3
I	A-8080	A	1000/1250/1667/ 2500/5000	8/16	5/4/3/2/1	Lugs	Lugs	275	1.5	17.2:1	50-20000	1000	1 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	2	—	.4
J	A-8081	S	500/555/625/ 715/833	8/16	10/9/8/7/6	Lugs	Lugs	70	1.3	6.86:1	50-20000	1000	2	2 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2	—	.7
K	A-8084	A	1250/2500/5000/ 10000/20000/40000	8	4/2/1/1/5/ .25/.12	Leads	Leads	1150	.4	67.6:1	50-20000	1000	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	—	.7
L	A-8078	S	167/250/500/ 1000	4/8/16	30/20/10/5	Lugs	Lugs	35	.8	8:1	40-20000	1500	2 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub>	—	1.0
	A-8079	S	100/125/200/333	4/8/16	50/40/25/15	Lugs	Lugs	22	1.2	4.46:1	40-20000	1000	2 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	2	2 <sup>3</sup> / <sub>8</sub>	—	1.4

A TYPICAL 70.7 VOLT LINE DISTRIBUTION SYSTEM SHOWING THE PROPER STANCOR UNIT—Products Listed on Page 26.



### MICROPHONE, PICKUP OR LINE TO GRID

S E C T	STANCOR Part No.	Style	Application	Impedance in Ohms		Audio Watts	Termination		D.C. Resist		Overall Turns Ratio	Frequency Response in Hz. ±3 DB	RMS Test Volt- age	Dimensions-Inches					Wt. Lbs.		
				Pri.	Sec.		C.T.	C.T.	Pri.	Sec.				Pri.	Sec.	H	W	D		Mounting	
																				MW	MD
A	A-4779	A	Line to S. or P.P. Grids	600/500	60000	—	Leads	Leads	37	1600	1:10	100-10000	1500	1 3/8	2 3/8	1 3/8	2	—	.5		

### LINE TO LINE

S E C T	STANCOR Part No.	Style	Impedance in Ohms		Frequency Response in Hz. ±3 DB	Audio Watts	Termination		Dimensions-Inches					Wt. Lbs.
			Pri.	Sec.			Pri.	Sec.	H	W	D	Mounting		
												MW	MD	
B	A-4350	A	50/125/200/333/500	50/125/200/333/500	200-15000	10	Lugs	Lugs	2	3 1/4	1 7/8	2 13/16	—	1.0

### INTERSTAGE: SINGLE PLATE (7,000 to 15,000 OHM) TO PUSH-PULL GRIDS

S E C T	STANCOR Part No.	Style	Ratio	Max. Pri. DCMA	Termination		D.C. Resist		Overall Turns Ratio	Frequency Response in Hz. ±3 DB	RMS Test Volt- age	Dimensions-Inches					Wt. Lbs.
					Pri.	Sec.	Pri.	Sec.				H	W	D	Mounting		
															MW	MD	
C	A-52C	A	1:2	10	Leads	Leads	570	1450	1:2	100-10000	1000	1 3/8	2 3/8	1 1/2	2	—	.4
	A-53C	A	1:3	10	Leads	Leads	400	1500	1:3	100-10000	1000	1 3/8	2 3/8	1 1/2	2	—	.5
	A-63C	A	1:3	10	Leads	Leads	565	2050	1:3	100-10000	1000	1 3/8	2 7/8	1 3/8	2 3/8	—	.7

## Audio Transformers

### AUDIO TRANSFORMER TECHNICAL NOTES

Audio Transformers operate on the same electromagnetic induction principle as Power Transformers but generally over a fairly broad range of frequencies; instead of at a single power frequency, such as 60 Hertz. In common applications they may carry D.C. in one or more windings, transform Voltage and Current levels, act as an Impedance matching and coupling device or as a form of filter; passing only a limited range of frequencies (voice communication). Usually they perform more than just one of these function simultaneously in a specific type of usage.

In some applications the frequency response, amount of magnetic shielding, maximum operating level, percentage of waveform distortion and insertion loss of the transformer are important.

The most commonly required electrical information pertaining to Audio Transformers is listed in this catalog wherever it applies, along with the physical mounting style, weight and dimensions. Information not shown is often available upon request if it pertains to the normal intended type of usage for a specific item.

The Impedance values listed for each Audio Transformer are the Reflected Impedance (Primary) for the rated value of Load Impedance (Secondary), into which the transformer is designed to operate. The Impedance Ratio between Primary and Secondary is fixed; since it is equal to the square of the turns ratio, which remains the same for different operating conditions. Turns Ratios listed are for Total Primary to Secondary, with the exception of the Driver Transformers for use with tubes. These are listed for Primary to 1/2 Secondary operation and are typically used in Class "B" Amplifier applications.

Accuracy of turns ratios is maintained within plus or minus 3 percent. Center taps are accurate within plus or minus 1 percent. Values of Primary D.C. listed are maximum and, in case of push-pull operation with a center-tapped winding, are the maximum amount for each half of the winding, unless otherwise indicated.

### HANDY METHOD FOR APPROXIMATING THE PRIMARY TO SECONDARY RATIO REQUIRED OF A DRIVER TRANSFORMER IN CLASS B OR AB<sub>2</sub> SERVICE

$$\text{Transformer ratio, primary: } \frac{1}{2} \text{ secondary} = \frac{\sqrt{PZ_L}}{0.35E_s}$$

- Where: P = Driving power in watts required for tubes to be driven.  
 Z<sub>L</sub> = Plate load impedance of driver tube(s) selected.  
 E<sub>s</sub> = Peak grid-to-grid signal voltage required for tubes to be driven.

Factor values for this formula are data commonly found in tube manuals. Select driver tubes capable under typical operation of delivering 1.5 times the grid driving power requirements of the stage to be driven. Pentode or tetrode drivers should be operated with inverse feedback.

### URNS/IMPEDANCE RATIOS

Turns Ratio "NR" may be expressed as the ratio of turns between the Primary and Sec-

ondary windings. It is also the Voltage Ratio between them and may be expressed as:

$$NR = \frac{N \text{ sec.}}{N \text{ pri.}} = \frac{E \text{ sec.}}{E \text{ pri.}}$$

Since the Impedance Ratio is equal to the square of the Turns Ratio:

$$(NR)^2 = ZR \text{ or } NR = \sqrt{\frac{Z \text{ sec.}}{Z \text{ pri.}}}$$

- Where: N sec. = Number of Secondary Turns.  
 N pri. = Number of Primary Turns.  
 E sec. = Secondary Voltage.  
 E pri. = Primary Voltage  
 NR = Turns Ratio between windings.  
 Z = Impedance in Ohms.  
 ZR = Impedance Ratio between windings.

### INSERTION LOSS

Insertion loss is expressed in Decibels (db) as a measure of efficiency, thusly:

$$\text{Insertion loss in db} = \log \frac{P \text{ input}}{P \text{ output}}$$

Where P = power (in Watts).

If it is measured at mid-band Frequency it is a simple expression of the transformer efficiency. At other frequencies it includes the Frequency Response characteristics of the transformer for specific conditions.

### TECHNICAL DATA FOR AUDIO CONSTANT VOLTAGE LINE TRANSFORMERS

The Constant Voltage Line Sound Distribution Systems have become the most widely accepted systems in use today. They offer the Sound Engineer an easy means of establishing the volume level of each speaker in a system without the use of potentiometers or similar devices. The proven simplicity and versatility of these systems minimize the problem of speaker impedance mismatching thereby insuring high quality sound reproduction and minimum power losses. The use of higher power driving the constant voltage lines also helps to lower power losses over longer distances.

Most of the newer P.A. amplifiers have a designated 25 volt, 70.7 volt or 140 volt outlet on the output transformer, but almost any older amplifier has an impedance tap which may be used for the desired voltage output.

To insure a steady maintenance of the desired line voltage, it is recommended that the amplifier should be capable of producing 1 1/2 times the total power of the various speakers connected. Hence, if the sum of the speakers equals 25 watts, the driving amplifier should be capable of producing 37 1/2 watts. The power and impedance figures shown here with the formulas are based on the total power actually supplied to the speakers and not on the maximum capability of the amplifier.

The following table lists various amplifier power outputs with the corresponding im-

pedance tap on the output transformer which will supply these three basic line voltages:

Watts Power Output	Impedance For 140 Volt Line	Impedance For 70.7 Volt Line	Impedance For 25 Volt Line
5	4,000	1,000	125
10	2,000	500	62.5
15	3,333	333	41.7
20	1,000	250	31.2
25	800	200	25
30	666	166	21
40	500	125	15.6
50	400	100	12.5
60	333	83	10.5
80	250	62.5	7.8
100	200	50	6.3

For power ratings not shown in this table, use the following formula:

$$Z = \frac{E^2}{W} \text{ Impedance Tap for: } \begin{array}{l} 140 \text{ volt line} = 20,000/W \\ 70.7 \text{ volt line} = 5,000/W \\ 25 \text{ volt line} = 625/W \end{array}$$

Z = Ohms  
 E = Volts  
 W = Watts output

To establish the volume level of the various speakers in the system, it is necessary to know the power output of the amplifier and the power desired at each speaker. To choose the correct line transformers, match the power to be delivered to each speaker with the power tap on the line transformer.

Then correct the primaries of the line transformers in parallel to the proper voltage tap on

the output transformer of the amplifier. When the sum of the power ratings shown on each line transformer is equal to the power rating of the amplifier, and the speakers are connected to the appropriate secondary taps, the system is correctly matched.

To determine the proper tap on the primary of the line transformer for a given wattage input to the speaker, use the formula:

$$Z = E^2/W$$

EXAMPLE: In a 70.7 volt system assume that the speaker requires 5 watts. What is the impedance of the tap required to produce this wattage?

$$Z = E^2/W = 70.7 \times 70.7/5 = 5,000/5 = 1,000 \text{ ohms}$$

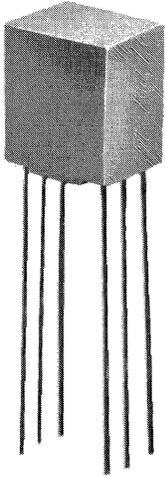
To determine the wattage input to the speaker when the tap is already connected, use the formula:

$$W = E^2/Z$$

EXAMPLE: In a 70.7 volt system, assume a speaker connected to the 500 Ohm tap of the primary of the line transformer. What wattage is produced by the use of this tap?

$$W = E^2/Z = 70.7 \times 70.7/500 = 5,000/500 = 10 \text{ Watts}$$

REMEMBER: Each speaker must have its own line-matching transformer and all of the line-matching transformers are connected in parallel to the proper voltage tap on the output transformer of the amplifier.



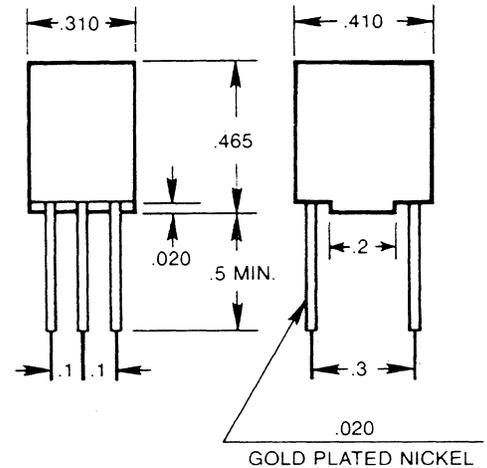
### PCT MINIATURE AUDIO TRANSFORMER

Stancor offers miniature encapsulated transformers and inductors for printed circuit board applications. They feature a molded case construction with base mounting pad for maximum lead exit protection. This feature prevents solder flowback, and allows for easy inspection of solder joints. Their rectangular shape allows the utmost utilization of space and stacking in limited areas.

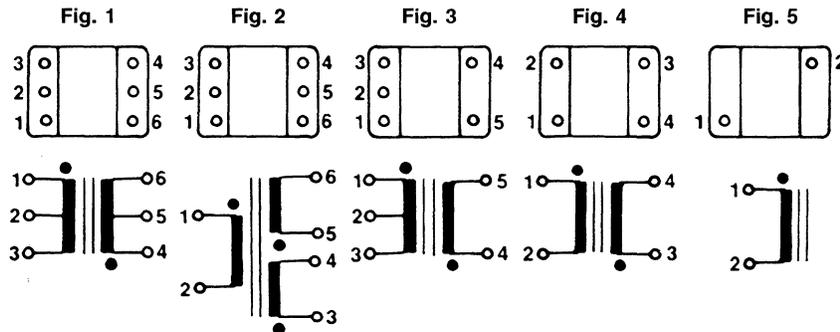
### POLYCHROMATRANS: WITH MULTIPLES OF 0.1" GRID SPACING FOR PRINTED CIRCUITS

All PCT series transformers and inductors are designed and constructed to meet the requirements of MIL-T-27. They feature a molded case construction with base mounting pad for maximum lead exit protection and to prevent solder flow back, and allow for easy inspection of solder joints. Their rectangular shape allows the utmost utilization of space and stacking in limited area. The space leads are of fatigue resistant gold plated nickel, are .020" in diameter, .75" long, and have multiples of 0.1" grid spacing for printed circuit application. They meet a 2.0 lb. on axis of pin terminal strength. These transformers, which weigh less than 3.0 grams, offer exceptional performance characteristics for use in all high performance impedance matching circuits requiring miniature magnetic components; including input, interstage, isolation, driver, choke, and output circuit applications.

### MECHANICAL DIMENSIONS



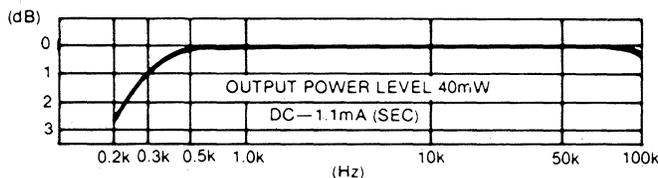
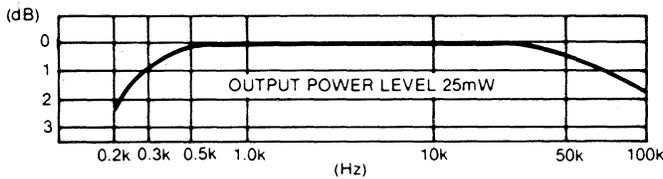
### SERIES SCHEMATIC AND CONNECTION DIAGRAMS



C.M.S.T.	STANCOR Part Number	Matching Impedance		Max. Power Level MW at 300 Hz.	Max. MA. D.C. Unbal. in Pri.	D.C. Resistance		Turn Ratio		RMS Test Volts	Connector Fig.
		Pri.	Sec.			Pri.	Sec.	Pri.	Sec.		
A	PCT-36	150	12.0	50	10.0	20	2.5	3.54	1.0	500	4
	PCT-33	500	50	50	3.0	55	8.0	3.16	1.0	500	4
	PCT-78	600	600	50	3.0	70	95.0	1.00	1.00	1000	4
	PCT-27	600	600C.T. 150 Split	50	3.0	70	95.0	2.00	1.0/1.0	1000	2
	*PCT-77	600C.T.	600C.T.	50	3.0	70	95.0	1.00	1.0	1000	1
	*PCT-24	900C.T.	600	50	3.0	80	95.0	1.22	1.0	1000	3
	PCT-21	1,000C.T.	600C.T.	50	3.0	85	95.0	1.29	1.0	500	1
	PCT-62	1,500C.T.	600	50	3.0	160	95.0	1.58	1.0	500	3
	PCT-18	1,600C.T.	3.2	50	2.5	168	.8	22.30	1.0	500	3
	B	PCT-12	10,000	3.2	40	.5	1200	.8	55.90	1.0	500
PCT-40		10,000	10,000C.T. 2,500 Split	40	1.0	1000	625.0	2.00	1.0/1.0	500	2
PCT-11		10,000C.T.	4.0	40	1.0	1200	1.0	50.00	1.0	500	3
PCT-39		10,000C.T.	500C.T.	40	1.0	1000	80.0	4.47	1.0	500	1
PCT-31		10,000C.T.	2,000C.T.	40	1.0	1000	300.0	2.23	1.0	500	1
PCT-76		10,000C.T.	10,000C.T.	40	1.0	1000	1300.0	1.00	1.0	500	1
C	PCT-04	25,000C.T.	600C.T.	30	.5	1600	95.0	6.45	1.0	500	1
	PCT-23	25,000C.T.	1,000C.T.	30	.5	1600	95.0	5.00	1.0	500	1
D	PCT-01	100,000C.T.	1,000C.T.	10	0	4300	120.0	10.00	1.0	500	1

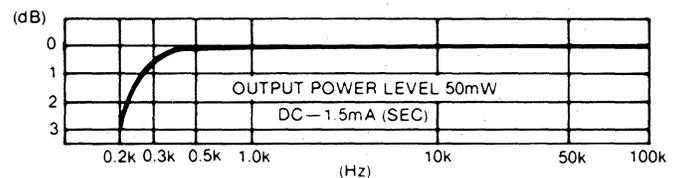
SPCT-10 Magnetic Alloy Shield — fits all PCT transformers. \*1500 Volt Dielectric Strength.

### TYPICAL PERFORMANCE CHARACTERISTIC CHARTS



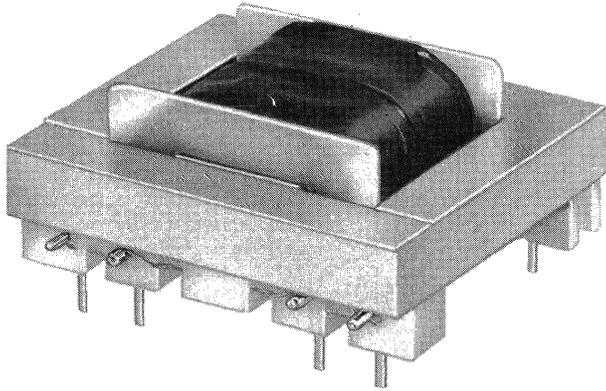
### SPECIFICATIONS

Miniature size ..... 0.310" 0.410" 0.465"  
 ..... 7.87mm 10.4mm 11.8mm  
 Meets requirements of ..... MIL-T-27  
 Dielectric strength ..... 500 VRMS  
 Insulation resistance ..... 10K M OHMS  
 Max operating temperature ..... 105°C  
 Thermal shock ..... 5 cycles -55°C to 105°C  
 Response ..... ± 2 db. 300 Hz to 100KHz  
 Max distortion 10 to 25% at rated power  
 Impedance range ..... 3.2 to 200K OHMS



# Telephone Coupling Transformers

# STANCOR



## TELEPHONE COUPLING TRANSFORMERS

Stancor's Telephone Coupling Transformers (TTPC Series) are ideal for use in voice and data interconnect networks such as modem terminal connection to telephone lines. Stancor has the broadest range of units for general use in impedance matching, circuit isolation, line balancing or bridging, and hybrid applications.

### For Interconnecting Data/Voice Modem Terminals to Telephone Lines

Designed to Meet FCC Part 68

### APPLICATION DATA

Stancor's TTPC series transformers are designed to meet the high performance requirements of today's phone interconnect and instrumentation applications. Stancor has the broadest range of units for general use in impedance matching, circuit isolation, line balancing or bridging, and hybrid applications.

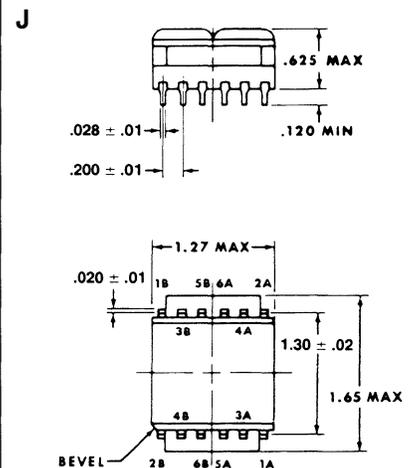
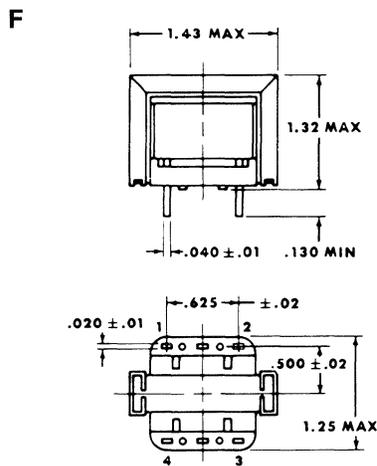
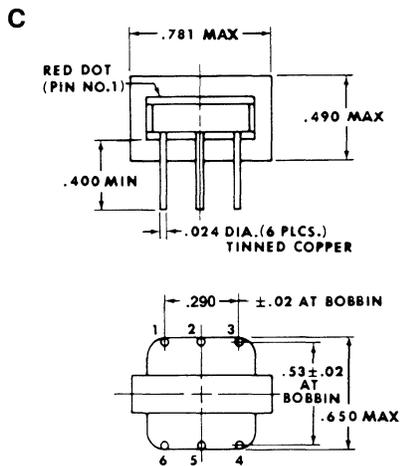
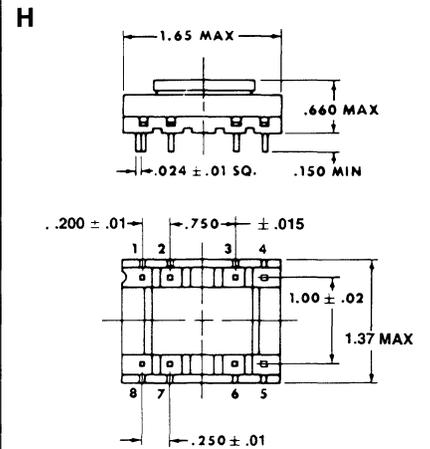
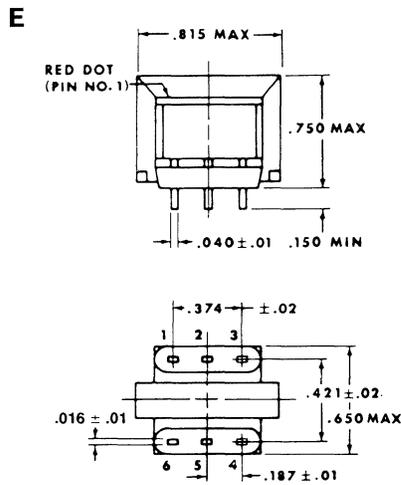
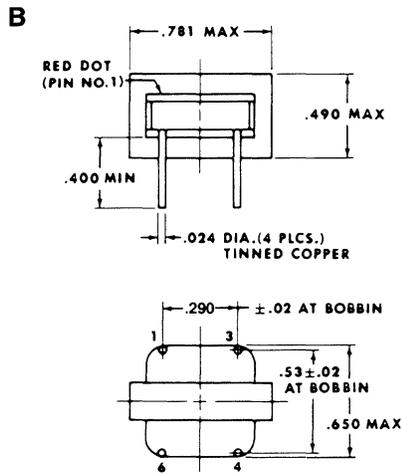
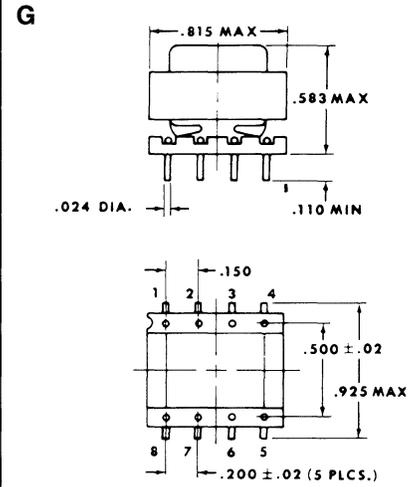
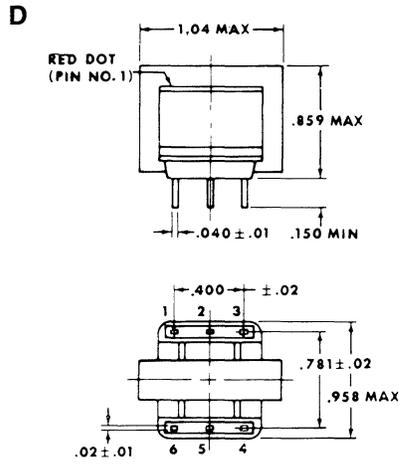
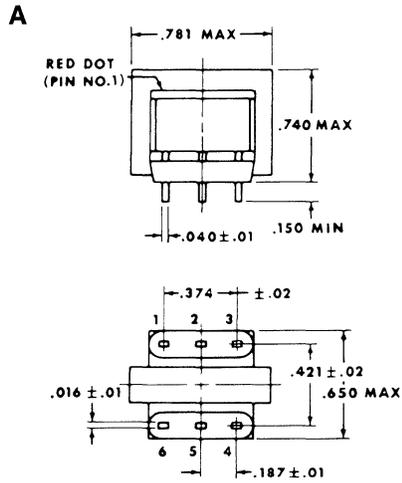
TTPC transformers are ideal for use in voice and data interconnect networks such as modem terminal connection to telephone lines. Stancor's units will handle 1500 volts dielectric breakdown and meet FCC Part 68 requirements.

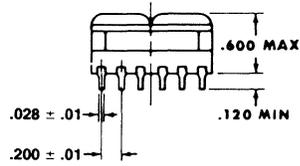
1500 Volt DIELECTRIC STRENGTH  
 PRIMARY TO SECONDARY —  
 PRIMARY TO CORE —  
 Distortion .5% Max. 300-3.5K Hz  
 Turns Ratio  $\pm 2\%$   
 Frequency Response  $\pm .5\text{db}$  300-3.5K Hz  
 Longitudinal Balance 60db Min. @ 200-1K Hz  
 40db Min. @ 4K Hz

S E C T	STANCOR Part Number	Impedance		D.C. Curr. MA.	Insertion Losses db Max. @ 1K Hz	Style	Schematic No.	Primary DCR	Wt. Oz.
		Primary $\pm 15\%$	Secondary $\pm 10\%$						
A	TTPC-1	600 C.T.	600 C.T.	0	1.4	A	2	44	.6
	TTPC-2	600	600	0	1.2	B	1	46	.5
	TTPC-3	600 C.T.	600 C.T.	0	1.2	C	2	46	.5
	TTPC-5	4000	600	0	1.5	B	10	365	.5
B	TTPC-6	600	600 C.T.	90	1.8	E	3	71	1.0
	TTPC-7	600	600	0	1.2	A	1	36	.6
	TTPC-8	600 C.T.	600 C.T.	0	1.2	A	2	36	.6
	TTPC-9	600	600/600	0	1.2	D	4 & 11	47	1.0
	TTPC-11	4000	600	0	1.2	A	10	225	.6
C	TTPC-12	Holding Coil (Inductance 1.3 Hy)		—	—	F	5	172	1.5
	TTPC-13	600	600 C.T. Split	90	1.8	G	6	73	.5
	TTPC-14	600	600 C.T. Split	80	1.1	H	12 & 13	74	2.5
	TTPC-15	600	600	80	1.1	H	15	60	2.5
D	TTPC-18	600 C.T.	600 C.T. or 150 Split	80	1.7	J	7	78	2.5
	TTPC-19	600 C.T.	600 C.T.	80	2.2	L	8	95	2.5
E	PCT-24	900 C.T.	600	3	2.0	SEE SERIES SCHEMATIC AND CONNECTION DIAGRAMS PAGE 28. PART NOS. PAGE 29.		—	.3
	*PCT-27	600	600 C.T./150 Split	3	2.0			—	.3
	PCT-77	600 C.T.	600 C.T.	3	2.0			—	.3
	PCT-78	600	600	3	2.0			—	.3

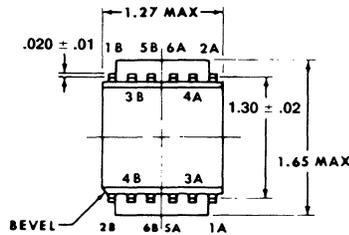
\*1000 Volt Dielectric Strength

### STYLES

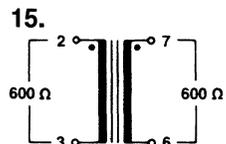
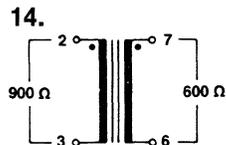
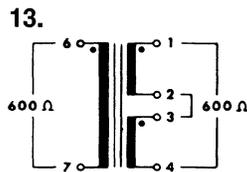
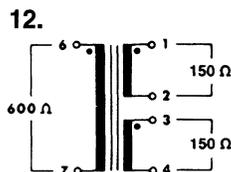
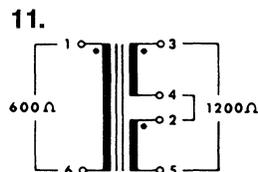
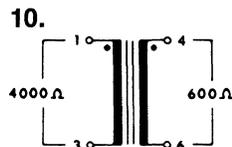
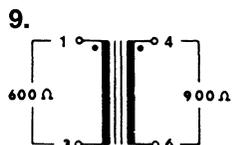
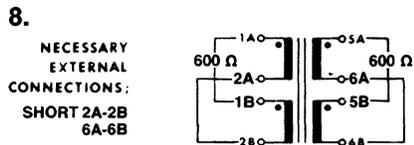
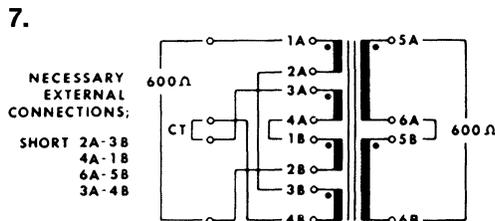
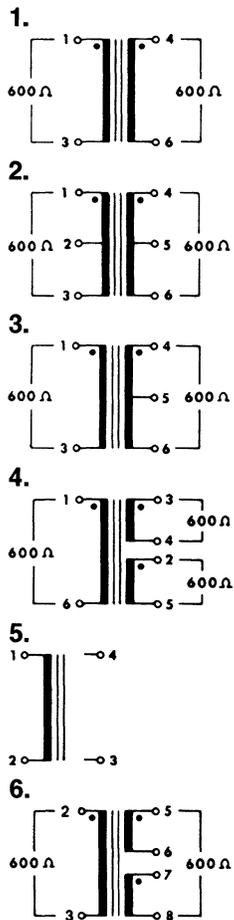




STYLE  
L



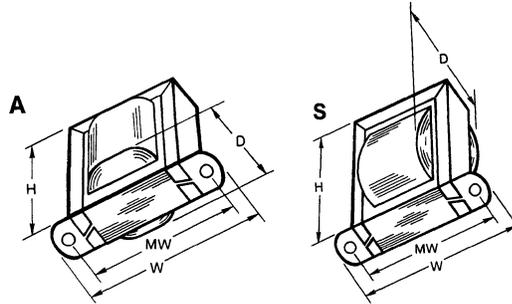
## SERIES SCHEMATIC AND CONNECTION DIAGRAMS



## IMPEDANCE SPECIFICATIONS

Schematic No.	Impedance	
	Primary ±15%	Secondary ±10%
1	600	600
2	600 C.T.	600 C.T.
3	600	600 C.T.
4	600	600/600
5	Holding Coil (Inductance 1.3 Hy)	
6	600	600 C.T. Split
7	600 C.T.	600 C.T. or 150 Split
8	600 C.T.	600 C.T.
9	600	900
10	4000	600
11	600	600/6.0
12	600	600 C.T. Split
13	600	600 C.T.
14	900	600
15	600	600

### FOR AUDIO APPLICATIONS

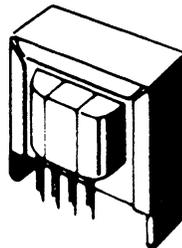
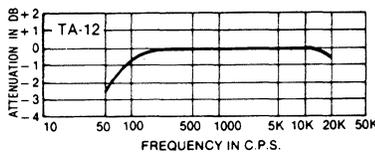
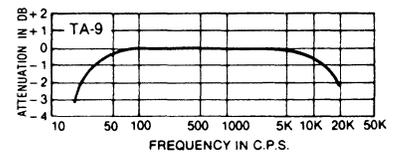
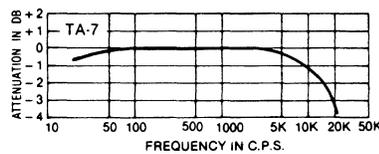
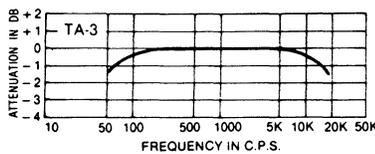


ALL UNITS TERMINATE WITH COLOR CODED LEADS, MINIMUM LENGTH 4 INCHES.

S E C T	STANCOR Part No.	Style	Application	Turns Ratio		Impedance in Ohms		Max. Pri. DCMA	Audio Watts	DC Res. in Ohms		Dimensions-Inches				Wt. Lbs.
				Pri.	Sec.	Pri.	Sec.			Pri.	Sec.	Case		Mounting		
												H	W	D	MW	
A	TA-3	A	Interstage	1	3.0	100	1000 C.T.	100	.25	5.8	45.0	1 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{1}{2}$	2	.35
B	TA-7	A	Driver	1	1	100	100 C.T.	100	.5	12.0	12.0	1 $\frac{3}{8}$	2 $\frac{7}{8}$	1 $\frac{5}{8}$	2 $\frac{3}{8}$	.60
C	TA-12	A	Output	1.6	1	20 C.T.	8	500	10.00	.55	.35	1 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{5}{8}$	2	.45
	TA-57	S	Output	4.4	1	100 C.T.	16/8/3.2	500	10.00	6.6	1.5	2 $\frac{3}{8}$	2 $\frac{7}{8}$	1 $\frac{7}{8}$	2 $\frac{3}{8}$	.95
D	TA-59	A	Driver	1.5	1	500 C.T.	200 C.T.	50	.50	36.5	15.5	1 $\frac{1}{4}$	2 $\frac{1}{8}$	1 $\frac{3}{8}$	1 $\frac{3}{4}$	.20

†Has Lugs on Secondary.

### TYPICAL FREQUENCY RESPONSE CHARACTERISTICS CURVES

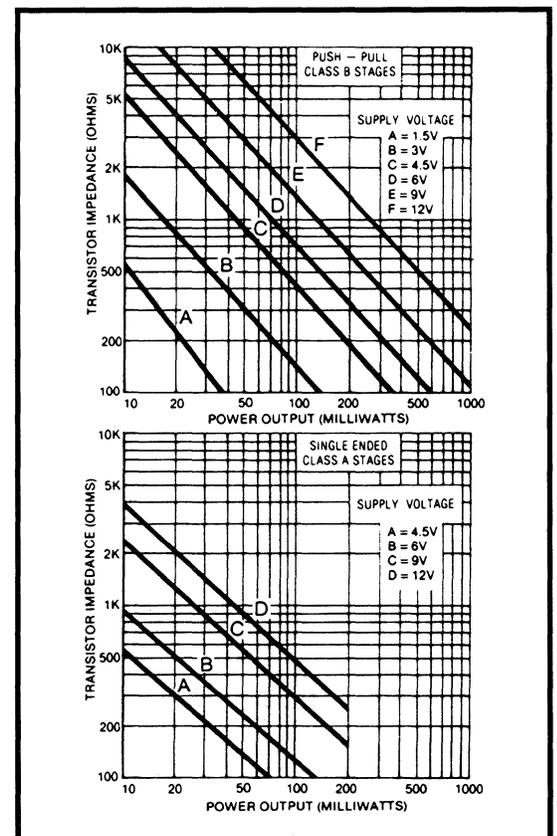


### MINIATURE AUDIOS .150 WATT GROUP

Dimensions:  $2\frac{1}{32}$ " H x  $1\frac{3}{16}$ " W x  $\frac{5}{8}$ " D.  
Mounting tabs:  $\frac{3}{16}$ " wide,  $2\frac{5}{32}$ " centers.  
Weight: .65 oz.

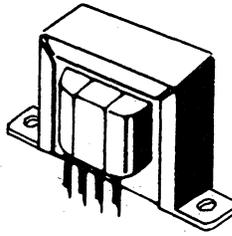
S E C T	STANCOR Part No.	Application	Turns Ratio Pri. to Sec.	Impedance in Ohms		D.C. Resist		Power Level (MW)
				Pri.	Sec.	Pri.	Sec.	
E	TA-21	Output	5.53:1	500 C.T.	4/8/16	75.3	3.55	150
F	TA-24	Interstage	10.0:1	500 C.T.	50000	76.8	5135.	150
	TA-28	Interstage	1.65:1	1500	500 C.T.	104.0	46.5	150
G	TA-31	Interstage	1:1.41	5000 C.T.	10000 C.T.	635.	825.	150
	TA-34	Interstage	6.97:1	10000 C.T.	200 C.T.	1200.	25.0	150
H	TA-35	Interstage	2.24:1	10000	2000 C.T.	1200.	257.	150
	TA-38	Interstage	1.72:1	500 C.T.	150 C.T.	62.0	21.2	150

Lead Length: 4 inches



# Transistor Transformers

# STANCOR

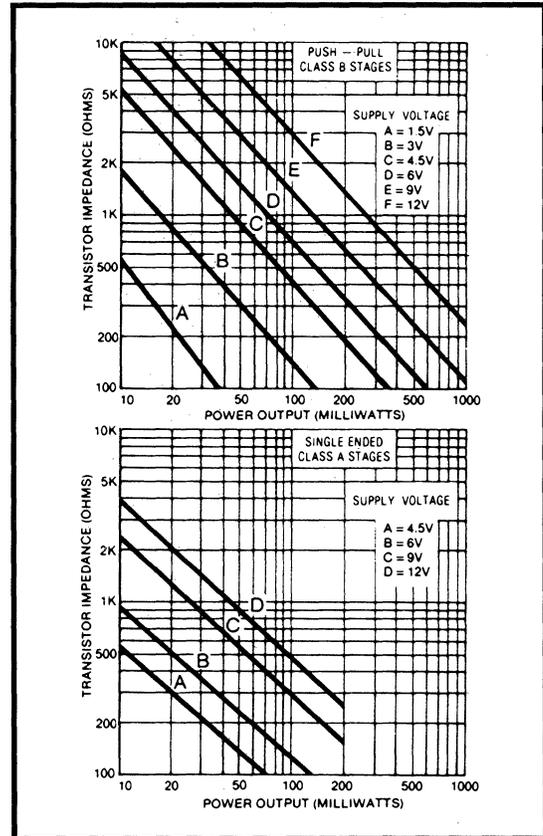


## MINIATURE AUDIOS .300 WATT GROUP

Dimensions:  $1\frac{3}{16}$ "H x  $1\frac{5}{8}$ "W x  $\frac{3}{4}$ "D.  
Mounting Centers:  $1\frac{3}{8}$ ".

S E C T	STANCOR Part No.	Application	Turns Ratio Pri. to Sec.	Impedance in Ohms		D.C. Res. in Ohms	
				Pri.	Sec.	Pri.	Sec.
A	TA-39	Output	2.5:1	100 C.T.	4/8/16	10.9	1.45
	TA-42	Output	5.60:1	500 C.T.	4/8/16	47.	.85
	TA-52	Interstage	1:1	500 C.T.	500 C.T.	40.	55.
B	TA-55	Input	50:1	500000	200 C.T.	12000.	18.
	TA-47	Input	1.00:14.1	1000 C.T.	200000 C.T.	123.	1815.

Weight: 1.2 oz.



## MINIATURE AUDIOS FOR PRINTED CIRCUITS .150 WATT GROUP (FIG. A)

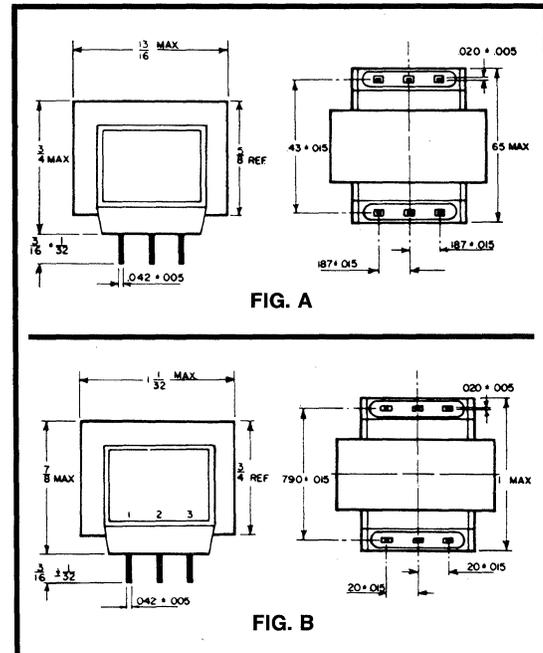
S E C T	STANCOR Part No.	Application	Turns Ratio Pri. to Sec.	Impedance in Ohms		D.C. Res. in Ohms	
				Pri.	Sec.	Pri.	Sec.
C	TAPC-35	Interstage	2.24:1	10000	2000 C.T.	1200	257.
	TAPC-38	Interstage	1.72:1	500 C.T.	150 C.T.	62	21.2

Weight: .65 oz.

## .300 WATT GROUP (FIG. B)

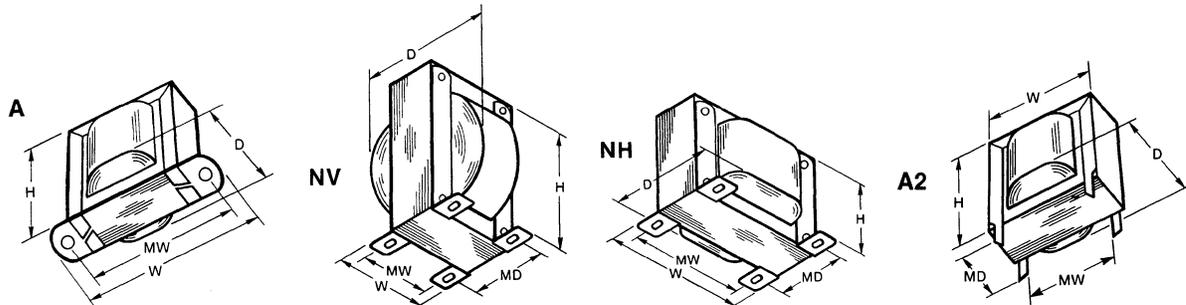
S E C T	STANCOR Part No.	Application	Turns Ratio Pri. to Sec.	Impedance in Ohms		D.C. Res. in Ohms	
				Pri.	Sec.	Pri.	Sec.
D	TAPC-52	Interstage	1:1	500 C.T.	500 C.T.	40	55
	TAPC-63	Driver	3.17:1	20000 C.T.	2000 C.T.	2140	325

Weight: 1.2 oz.



The Stancor line of "Smoothing" types of Filter Chokes has been designed for use with the various Power and Plate Transformers listed in this catalog. The range of electrical ratings available covers requirements for practically all of the Filter Chokes used in D.C. power supplies. In addition, a myriad of other electronic apparatus applications for these items exists.

Inductance values shown are measured at the full amount of D.C. listed and at the specified values of RMS Voltage and Frequency. All of these items are made with Class "A" insulating materials and will withstand operation up to a limit of 105°C., continuously.



### SMOOTHING CHOKES: INDUCTANCE TOLERANCE — MINUS 15% PLUS 50% AT 10 VOLTS 60 Hz.

S E C T	STANCOR Part No.	Style	Inductance Henries	DCMA	D.C. Res. Ohms	Insul. Test RMS Volts*	Termination	Dimensions-Inches					Wt. Lbs.
								Case			Mounting		
								H	W	D	MW	MD	
A	C-2344	A	1.5	10	85	2500	Leads	1 1/4	2 1/8	1 1/8	1 3/4	—	.4
	C-1515	A	20.0	15	900	1500	Leads	1 5/8	2 7/8	1 3/8	2 3/8	—	.7
B	C-1706	A	4.5	50	300	1500	Leads	1 3/8	2 3/8	1 1/4	2	—	.5
	C-1707	A	7.0	50	550	1500	Leads	1 3/8	2 3/8	1 1/4	2	—	.5
C	C-1002	A	15.0	75	400	1500	Leads	2 3/8	3 3/4	2	3 1/8	—	1.7
D	C-1709	A	8.0	85	250	1500	Leads	2	3 1/4	1 7/8	2 13/16	—	1.4
	C-1001	A	10.5	110	225	3000	Leads	2 5/8	4	2 1/8	3 9/16	—	2.3
E	C-2303	A	2.5	130	100	2000	Leads	2	3 1/4	1 5/8	2 13/16	—	1.0
F	C-2327	A	1.5	200	85	1500	Leads	1 5/8	2 7/8	1 1/2	2 3/8	—	.7
G	C-2343	A	.75	300	32	1500	Leads	1 3/8	2 7/8	1 3/8	2 3/8	—	.7
	C-2334	A	2.8	300	60	1500	Leads	2 5/8	4	2 1/8	3 9/16	—	2.5
H	C-1722	NV	8.0	300	80	3000	Leads	4 9/16	3 3/4	3 7/16	3	2 1/2	7.3
	C-2347	A	1.0	350	40	1500	Leads	2	3 1/4	1 3/4	2 13/16	—	1.0
	C-2328	A	.8	375	25	1500	Leads	2 3/8	3 3/4	1 7/8	3 1/8	—	1.5
	C-2708	A	.32	600	10	1500	Leads	2	3 1/4	1 3/4	2 13/16	—	1.3

\*Insulation Test Voltage: Twice Allowable RMS Working Voltage plus 1000 Volts.

### HIGH CURRENT CHOKES: INDUCTANCE MEASURED AT 1 VOLT 60 Hz.

S E C T	STANCOR Part No.	Style	Inductance Millihenries	D.C. Amps	D.C. Res. Ohms	Insul. Test* RMS Volts	Termination	Dimensions-Inches					Wt. Lbs.
								Case			Mounting		
								H	W	D	MW	MD	
I	TC-1	A2	3	1.0	.25	1000	Leads	1 1/4	1 1/2	1 1/8	1 1/8	7/16	.3
	TC-2	A2	11	1.0	.75	1000	Leads	1 1/4	1 1/2	1 1/8	1 1/8	7/16	.3
J	C-2690	NV	300 or 75	1.0 2.0	3.00 .75	1500	Leads	3 7/16	2 13/16	3	2 1/4	2 5/8	5.0
	C-2685	NH	35	2.0	.75	1500	Leads	2 9/16	2 5/8	2 1/8 <sup>1</sup>	2 3/16	2	1.9
	C-2691	NV	80 or 20	2.5 5.0	.60 .15	1500	Leads	3 13/16	3 1/8	3 1/2	2 1/2	3	7.0
	C-2686	NH	25	4.0	.425	1500	Leads	2 7/8	3 3/8	2 5/8	2 13/16	2 1/8	3.4
	C-2687	NH	10	8.0	.15	1500	Leads	3 3/16	3 3/4	3 <sup>2</sup>	3 1/8	2 1/2	5.3
	C-2688	NH	10	12.5	.11	1500	Leads	3 1/2	4 1/8	3 1/8 <sup>2</sup>	3 7/16	2 3/8	5.9

<sup>1</sup>Mounting foot depth — 2 1/16" O.A.    <sup>2</sup>Mounting foot depth — 3 3/16" O.A.

### MINIATURIZED HIGH CURRENT CHOKES: INDUCTANCE MEASURED AT 1 VOLT 60 Hz.

K	C-2722	A	400	.135	31.00	1500	Leads	1 1/4	2 1/8	1 1/8	1 3/4	—	.25
	C-2724	A	250	.275	16.00	1500	Leads	1 7/16	2 3/8	1 1/4	2	—	.35
	C-2728	A	75	1.000	2.50	1500	Leads	2	3 1/4	1 11/16	2 13/16	—	1.00

\*Insulation Test Voltage. Twice Allowable RMS Working Voltage plus 1000 Volts.

The above listed "HIGH CURRENT CHOKES" are normally used in low voltage, high current D.C. power supply filter applications, where low voltage drop across the filter and good voltage regulation is required, without any type of voltage regulator.

The "MINIATURIZED HIGH CURRENT CHOKES" are primarily for use with the "Miniaturized Control/Rectifier Transformers" listed elsewhere

in this catalog. When used in small D.C. power supplies with these transformers, a combination of small physical size and adequate voltage regulation for many applications is possible, without a solid state voltage regulator.

These chokes are made with Class "A" insulating materials and may be operated up to a maximum limit of 105°C., continuously.

# Wall Plug-in Power Sources

# STANCOR

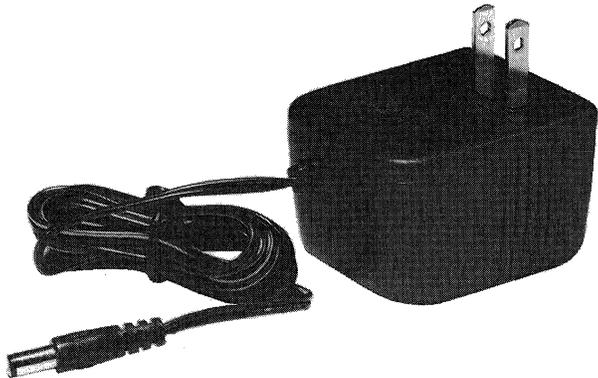
## DOMESTIC MODELS



Listed



Certified



### AC-DC Regulated Models Input 120V, 60 Hz.

STANCOR Part Number	Rated Output		Size
	Volts	MA	
STA-4130•	3.0 DC	350	2
STA-4190•	9.0 DC	200	2
STA-4890••	9.0 DC	400	9
STA-4110A	10.0 DC	300	2
STA-300R	12.0 DC	200	2

### AC-AC Models Input 120V, 60 Hz.

STANCOR Part Number	Rated Output		Size
	Volts	MA	
STA-3545B	4.5 AC	300	1
STA-4190B	9.0 AC	300	2
STA-4190D	9.0 AC	500	2
STA-4110	10.0 AC	700	2
STA-3512E•	12.0 AC	100	1
STA-3512F•	12.0 AC	200	1
STA-4112A	12.0 AC	500	2
STA-4812B•	12.0 AC	850	3
STA-4116	16.0 AC	250	2
STA-4118•	18.0 AC	300	2
STA-4820•	20.0 AC	700	3
STA-4124•	24.0 AC	300	2

### AC-DC Unregulated Models 120V, 60 Hz.

STANCOR Part Number	Rated Output		Size
	Volts	MA	
STA-3530A	3.0 DC	400	1
STA-3530	3.0 DC	500	1
STA-3540	4.4 DC	400	1
STA-3560B	6.0 DC	100	1
STA-3560	6.0 DC	200	1
STA-3560A	6.0 DC	300	1
STA-4160	6.0 DC	600	2
STA-4160A	6.0 DC	800	2
STA-4860	6.0 DC	1000	3
STA-4860A	6.0 DC	1200	3
STA-5760	6.0 DC	2000	4
STA-3575	7.5 DC	100	1
STA-3575A	7.5 DC	300	1
STA-4875	7.5 DC	1000	3
STA-5775	7.5 DC	1500	4
STA-3590B	9.0 DC	100	1
STA-3590	9.0 DC	200	1
STA-3590A	9.0 DC	300	1
STA-4190A	9.0 DC	500	2
STA-4190F	9.0 DC	700	2
STA-4890	9.0 DC	1000	3
STA-4890A	9.0 DC	1200	3
STA-3512	12.0 DC	50	1
STA-3512C	12.0 DC	100	1
STA-3512B	12.0 DC	200	1
STA-4112B	12.0 DC	300	2
STA-4112	12.0 DC	400	2
STA-4112C	12.0 DC	500	2
STA-4812D	12.0 DC	600	3
STA-4812A	12.0 DC	1000	3
STA-5712	12.0 DC	1200	4
STA-4812	12.5 DC	800	3
STA-5713	13.5 DC	1300	4
STA-5713A	13.5 DC	1700	4
STA-4814	14.5 DC	800	3
STA-4815	15.0 DC	600	3
STA-5715	15.0 DC	1000	4
STA-3518	18.5 DC	80	1

## DESK TOP MODELS

### AC-DC Unregulated Desk Top Models Input 120V, 60 Hz.

STANCOR Part Number	Rated Output		Size
	Volts	MA	
STA-6690	9.0 DC	3000	7
STA-6612	12.0 DC	2000	7
STA-6612A	12.0 DC	2500	7
STA-6612B	12.0 DC	3000	7
STA-5713AC	13.5 DC	1700	4
STA-6013A	13.5 DC	2100	5
STA-6613	13.5 DC	2400	7
STA-6615	15.0 DC	2000	7
STA-6618	18.0 DC	2000	7
STA-6624	24.0 DC	1500	7

### AC-AC Desk Top Models Input 120V, 60 Hz.

STANCOR Part Number	Rated Output		Size
	Volts	MA	
STA-5760A•	6.0 AC	3300	4
STA-5790	9.0 AC	3400	4

• UL listed only/not CSA certified.

•• No agency approvals.

See page 37 for Model Sizes and Output Terminations.

### EUROPEAN MODELS



#### AC-DC Unregulated Models Input 220V, 50 Hz.

STANCOR Part Number	Rated Output		Size
	Volts	MA	
STAF-3924F	4.5 DC	350	6
STAF-1847F	4.8 DC	500	2
STAF-1848F	5.2 DC	1000	3
STAF-0381F	6.0 DC	500	2
STAF-0797F	6.0 DC	1000	3
STAF-2100F	6.2 DC	300	6
STAF-0834F	6.2 DC	350	2
STAF-2243F	7.5 DC	300	2
STAF-2223F	9.0 DC	200	6
STAF-3309F	9.0 DC	300	2
STAF-1058F	9.0 DC	500	2
STAF-0329F	9.0 DC	1000	2
STAF-3382F	12.0 DC	300	2
STAF-2343F	12.0 DC	500	3
STAF-1454F	12.0 DC	1000	4
STAF-1948F	12.0 DC	1200	4
STAF-0460F	12.6 DC	800	3
STAF-1059F	13.5 DC	1300	4
STAF-0354F	14.5 DC	8500	3
STAF-1972F	15.0 DC	1000	4



#### AC-AC Regulated Models Input 220V, 50 Hz.

STANCOR Part Number	Rated Output		Size
	Volts	MA	
STAF-1433F	2.9 AC	320	6
STAF-2099F	3.0 AC	120	6
STAF-0418F	4.5 AC	120	6
STAF-0437F	9.0 AC	130	6
STAF-2098F	24.0 AC	400	3

#### DESK TOP MODELS AC-DC Unregulated Desk Top Models Input 220V, 50 Hz.

STANCOR Part Number	Rated Output		Size
	Volts	MA	
STAF-2134F	13.5 DC	1700	5
STAF-3775F	13.5 DC	2100	8
STAF-3777F	13.5 DC	2400	8
STAF-3613F	14.0 DC	1400	5

All European wall plug-in power sources are TUV certified.

### DOMESTIC AND EUROPEAN DIMENSIONS AND SPECIFICATIONS Model Size Chart

	L		W		H	
	mm	inches	mm	inches	mm	inches
1	55.0	2.2	42.8	1.7	37.2	1.5
2	63.0	2.5	51.0	2.0	41.0	1.6
3	70.5	2.8	56.0	2.2	47.0	1.9
4	84.5	3.3	64.5	2.5	55.0	2.2
5	95.2	3.7	72.0	2.8	57.0	2.2
6	55.0	2.2	42.8	1.7	35.6	1.4
7	120.0	4.7	80.0	3.1	66.5	2.6
8	120.0	4.7	82.0	3.2	66.5	2.6
9	89.0	3.5	61.0	2.4	48.0	1.9

#### Output Terminations

Stancor wall plug-in power sources have output termination compatible with Switchcraft PC-722A or 722A with 6 ft. output cord. Secondary plug size 2.1 x 5.5 mm. Wired Outside-Positive; Inside-Negative for AC-DC models.

**Please note:** Line Drawings and voltage curves are available upon request. Please contact STANCOR customer service for details.



Stancor's compact plug-in power supplies help make design work easier. They reduce the size and weight of the product, remove heat from sensitive circuits, often eliminate the need for cooling devices, reduce design time, simplify or eliminate safety agency approvals, provide a secure, tamper-proof power source and a safer lower power output to the end product. Wall plug-in power sources are available in A.C.-D.C. regulated, unregulated and A.C.-A.C. models.



## U.S. & EUROPEAN AC-DC REGULATED OR UNREGULATED & AC-AC MODELS ARE THE PERFECT SOLUTION FOR:

- Gaining Agency Approval
- Reducing Size and Weight of Product — Allows Low Profile Design
- Removing Heat from Sensitive Circuitry
- Eliminating Need for Cooling Devices
- Reducing Design Time for Product
- Providing a Secure, Tamperproof Power Source
- Providing Safer, Low Power to any Application

### AC-DC MODELS

S E C T	U/L — CSA UNREGULATED SERIES — INPUT 120V (ALL MODELS)							
	STANCOR Part No.	RATED OUTPUT		CSA	STANCOR Part No.	RATED OUTPUT		CSA
		VDC	MADC			VDC	MADC	
A	W60DUH40-1	6.0	400	LISTED	W200DUJ28-1	20.0	280	LISTED
	W75DUJ50-1	7.5	500	LISTED	W240DUH05-1	24.0	50	LISTED
	W140DUJ35-1	14.0	350	LISTED				

S E C T	U/L — CSA REGULATED SERIES — INPUT 120V (ALL MODELS)									
	STANCOR Part No.	RATED OUTPUT			CSA	STANCOR Part No.	RATED OUTPUT			CSA
		VDC	REG	MADC			VDC	REG	MADC	
B	W50DRL60-1	5.0	.2	600	COMPLY	W60DRJ40-1	6.0	.5	400	COMPLY

### AC-AC MODELS

S E C T	U/L — CSA CLASS II TRANSFORMERS — INPUT 120V 60Hz (ALL MODELS)							
	STANCOR Part No.	RATED OUTPUT		CSA	STANCOR Part No.	RATED OUTPUT		CSA
		VAC	MA RMS			VAC	MA RMS	
C	*W170AUK50-2	17.0 C.T.	500	COMPLY	W240AUJ45-1	24.0	450	COMPLY
	W180AUM88-1	18.0	880	N/A	W240AUM66-1	24.0	660	N/A

\*Termination — 6 ft. cord with amp connector — mates with amp 3-102202-4 or 3-102203-4  
Stancor wall plug in power sources are designed to and/or listed by U.L. and CSA as required.

### EUROPEAN MODELS INPUT — 220V 50Hz (ALL MODELS)

#### VDE AC-DC MODELS

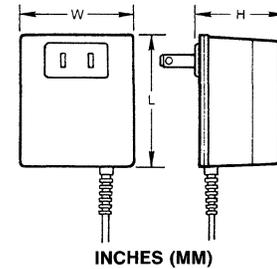
S E C T	EUROPEAN REGULATED SERIES				EUROPEAN REGULATED SERIES			
	STANCOR Part No.	RATED OUTPUT		VDE	STANCOR Part No.	RATED OUTPUT		VDE
		VDC	MADC			VDC	MADC	
D	W90DRK30-X1	9.0	300	LISTED	W120DRK25-X1	12.0	250	LISTED

#### VDE AC-AC MODELS

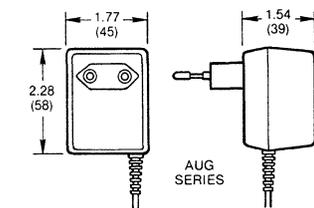
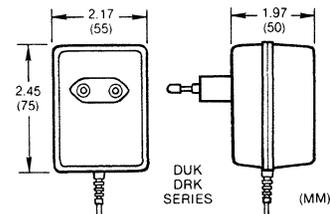
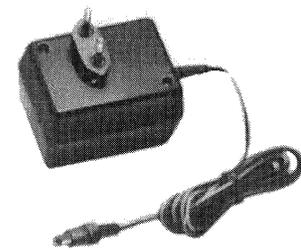
S E C T	STANCOR Part No.	RATED OUTPUT		VDE
		VAC	MA.	
	E	W120AUG10-X1	12.0	100

### Output Terminations

Stancor wall plug-in power sources have output termination compatible with Switchcraft PC-722A or 722A with 6 ft. output cord. Secondary plug size 2.1 x 5.5 mm. Wired Outside-Positive; Inside-Negative for AC-DC models.



MODEL SERIES	L	W	H
DUH	2.36 (60)	1.77 (45)	1.65 (42)
DUJ, DRJ, AUJ	2.40 (61)	2.17 (55)	1.61 (41)
DRL, AUK	3.19 (81)	2.32 (59)	2.05 (52)
AUM	3.23 (82)	2.36 (60)	1.89 (48)



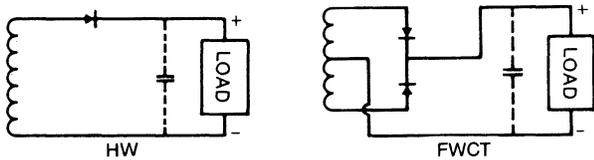
### HOW TO DETERMINE SECONDARY AC (RMS) CURRENT RATINGS

The tabular data for the various Rectifier, Control and Filament types of transformers listed in this catalog shows A.C. (R.M.S.) secondary current, unless otherwise indicated, as in the "RT" and "TP" series listings.

When used in various rectifier circuits, with the possibility of different types of loads, the RMS secondary current will be different for each specific condition. To assist the user, the following information is given so that the proper transformer may be selected.

The rectifier circuits as related to these transformers are:

- HW = Half-Wave
- FWCT = Full-Wave Center Tap
- FWB = Full-Wave Bridge
- FWD = Full-Wave Doubler



The formula for the relation between secondary RMS current ( $I_{AC}$ ) which the transformer has to deliver and the D.C. output current taken from the rectifier ( $I_{DC}$ ) is:

$$I_{AC} = K_{FF} \times I_{DC}$$

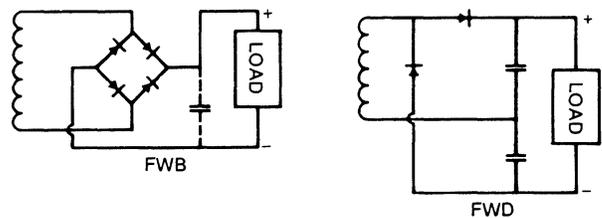
where  $K_{FF}$  is the form factor.

The factor for each circuit and type of load is as follows:

REACTOR LOAD		CAPACITOR LOAD	
Form Factor	Rectifier Circuit	Form Factor	Rectifier Circuit
1.25	HW	2.3	HW
0.7	FWCT	1.2	FWCT
1.0	FWB	1.8	FWB
		4.0 (approx.)	FWD

Only transformers with a CT connection are usable in the FWCT circuit and the FWD circuit will have only a capacity load. The size and type of capacitors used in the FWD circuit will affect the form factor. The factor shown is an approximate maximum for the full-wave symmetrical voltage doubler circuit using two similar electrolytic capacitors.

The transformer selected for a specific D.C. output voltage and current rating, with known type of load after the rectifier, should deliver sufficient RMS voltage to make up for the voltage drop in each rectifier junction plus any drop in a filter or regulator that is used.



### General Characteristics

- Temperature: Storage  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
Operating  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- Humidity: 5% to 90% non-condensing
- Altitude: Operating 10,000 ft.; non-operating 50,000 ft.
- Shock: 50 G's
- Vibration: 10 to 50 Hz all directions normally mounted
- Insulation Resistance: 1,000 megohms @ 500V 80% relative humidity max.
- Tolerances: Turns  $\pm 1\frac{1}{2}\%$  (unless otherwise noted)  
Voltage  $\pm 3\%$  (unless otherwise noted)  
Inductance  $-15\%$   $+50\%$   
DC Resistance  $\pm 10\%$  wire size up to 30  
 $\pm 20\%$  wire size 31 to 44  
Dimensional:  $\pm .030$ , unless otherwise noted
- Temperature Rise: Class A  $65^{\circ}\text{C}$  rise over  $40^{\circ}\text{C}$  ambient
- Hi-Pot: 100% of production is hi-pot tested at 2x input plus 1000V or as required for 1 minute between pri. and core also pri. to sec. or 20% higher volts for 1 sec.

### UL RECOGNIZED:

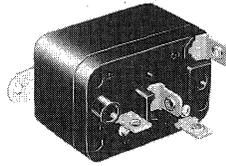
Class 1, Power Card File E68100, Guide # YPTQ2

Low Boys	P8130	P8604
MLB	P8357	P8615
P6134	P8389	P8616
P6375	P8390	P8617
P6376	P8392	P8618
P6377	P8395	P8619
P6378	P8396	PPC Series
P6379	P8397	SW & DSW series
P6465	P8603	

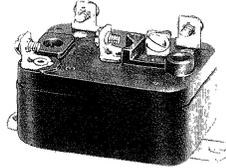
## A.C. D.C. General Purpose Relays

### TYPE 84

Totally Enclosed  
 Low Cost  
 Screw of 1/4" Quick  
 Connect Termination  
 (Except 6 V.A.C. in  
 Screw Type only)  
 Operates Any Position  
 Isolated Coil  
 I Mounting  
 Bracket  
 A.C. Coils Rated  
 50/60 Hz  
 Screws Included in  
 Boxed Units Only  
 Wt: 2.5 oz (Approx)



**FIGURE 1  
 SCREWS**



**FIGURE 2  
 QUICK CONNECTS**

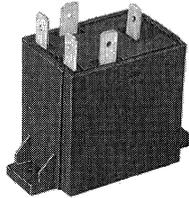
### SINGLE POLE NORMALLY OPEN AND SINGLE POLE DOUBLE THROW

Coil Voltage A.C.	Catalog Number Figure 1		Contact Rating 125/250 V.A.C.	
	1PNO	1PDT	Inductive	Resistive
6	84-901		N.O. 8 Amps. Continuous 25 Amps. Inrush	N.O. 16 Amps. Continuous
24	84-902	84-906		
120	84-903	84-907		
208/240		84-908		
Coil Voltage A.C.	Catalog Number Figure 2		D.T. 8 Amps. Continuous 18 Amps. Inrush	D.T. 8 Amps. Continuous
	1PNO	1PDT		
24	84-912			
120	84-913	84-917		
208/240	84-914	84-918		
24	84-922	84-926		
120		84-927	3 Amps. @ 125 V.A.C. or 1.5 Amps. @ 250 V.A.C. Pilot Duty	
208/240		84-928		
Coil Voltage D.C.	Resistance in Ohms @ 25°C	Catalog Number Figure 1	D.C. Contact Rating Inductive	
			Voltage	Current
12	90	84D-902	12	3 Amp.
24	280	84D-903	24	1.5 Amp.

U.L. File No. E12139 or E22381 CSA File No. LR 13360

### TYPE 134

Totally Enclosed  
 Versatile Termination  
 Quiet Operation  
 1/4" Quick Connect  
 Termination  
 Wt. 2.5 oz (Approx)



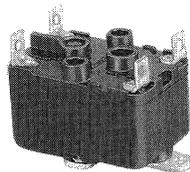
### SINGLE POLE NORMALLY OPEN AND SINGLE POLE DOUBLE THROW

POWER TYPES—Quick Connect Termination				
Coil Voltage D.C.	Catalog Number Figure 2		Contact Rating	
	1PNO	1PDT	Inductive	
12	134D-911	134D-915	12 FLA, 84 LRA @ 125 V.A.C.	
Coil Voltage A.C.	Catalog Number Figure 2		8 FLA, 48 LRA @ 250 V.A.C.	
	1PNO	1PDT	7 FLA, 42 LRA @ 277 V.A.C.	
24	134-912	134-916	Horsepower Ratings 3/4 H.P. @ 125 V.A.C. 1 H.P. @ 250 V.A.C. 1 H.P. @ 277 V.A.C.	
120	134-913	134-917		
208/240	134-914	134-918		
PANEL RECEPTACLE KIT – Printed Circuit Termination				
A.C. or D.C.	See page 43		134-185-1	With 5 Female Terminals

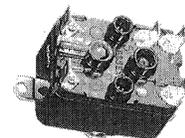
U.L. File No. E12139 or E22381 CSA File No. LR 13360

### TYPE 184

Totally Enclosed  
 Low Cost  
 Screw or 1/4" Quick  
 Connect Termination  
 Operates Any Position  
 Isolated Coil  
 End Mounting  
 Bracket  
 A.C. Coils Rated  
 50/60 Hz  
 Screws Included in  
 Boxed Units Only  
 Wt. 3 oz (Approx)



**FIGURE 1  
 SCREWS**



**FIGURE 2  
 QUICK CONNECTS**

### SINGLE POLE NORMALLY OPEN AND SINGLE POLE DOUBLE THROW

Coil Voltage A.C.	Catalog Number Figure 1		Contact Rating	
	1PNO	1PDT	Inductive	Resistive
24	184-902		12 Amps. Continuous 60 Amps. Inrush @ 125 V.A.C.	18 Amps. Continuous @ 277 V.A.C.
120	184-903	184-907		
Coil Voltage A.C.	Catalog Number Figure 2		8 Amps. Continuous 48 Amps. Inrush @ 250 V.A.C.	
	1PNO	1PDT		
24	184-912	184-916		
120	184-913	184-918		
208/240	184-914	184-918	7 Amps. Continuous 42 Amps. Inrush @ 277 V.A.C.	
24	184-922			
120		184-927		
208/240		84-928	3 Amps. @ 277 V.A.C. 125 VA @ 125 V.A.C. 277 VA @ 277 V.A.C.	

U.L. File No. E12139 or E22381 CSA File No. LR 13360

### ENGINEERING DESIGN DATA—Type 84, 134, 184

A.C. Type	Magnet Coil Rating (Volt Amperes)			Operation in % of Nom. Coil Rating		Breakdown Voltage All Terminals-60 Hz RMS			Contact Material		Electrical Life		Mechanical Life§		Max. Oper. Amb. °F
	Inrush	Sealed Nom.	Max.	Pick-up	Max.* Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min.	
84	4	2.8	3	85%	110%	1500	1000	1500	Silver Alloy	Fine Silver	100,000†	6	1,000,000	60	140
134	4	3.5	—	85%	110%	1554	1000	1554	Silver Alloy	—	100,000	6	1,000,000	30	150
184	4	2.8	3	85%	110%	1500	1000	1500	Silver Alloy	Fine Silver	100,000†	6	1,000,000	60	150

D.C. Type	Coil Rating		Operation in % of Nom Coil Rating		Breakdown Voltage All Terminals-60 Hz RMS			Contact Material		Electrical Life		Mechanical Life§		Max. Oper. Amb. °F
	Nominal Magnetic Coil Rating (Watts)		Pick-up	Max.* Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min.	
84D	3		75%	110%	1500	1000	1500	—	Silver Alloy	100,000	6	1,000,000	60	140
134D	—		—	110%	1554	1000	1554	Silver Alloy	—	100,000	6	1,000,000	30	150

\* Magnet coils designed for continuous duty. Do not operate at rate higher than indicated under Mechanical Life.

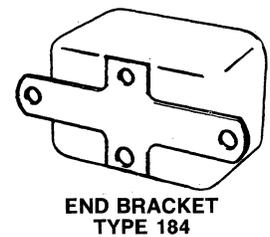
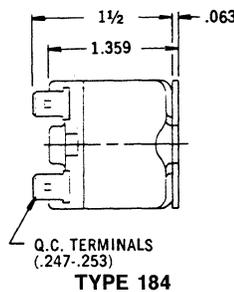
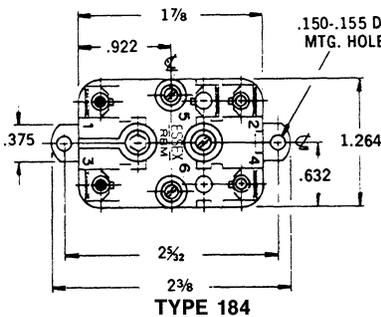
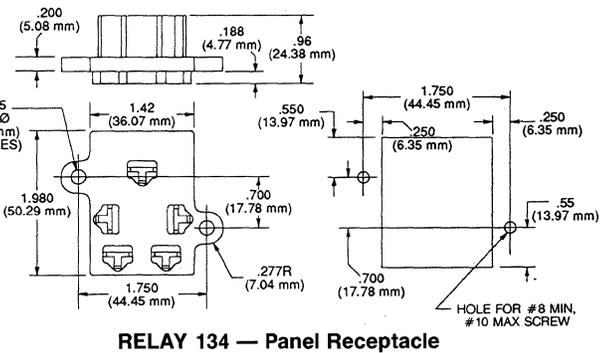
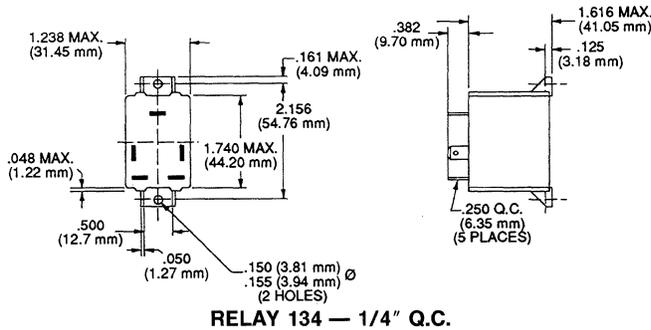
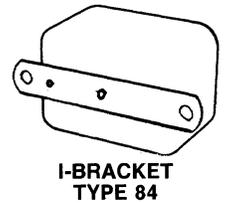
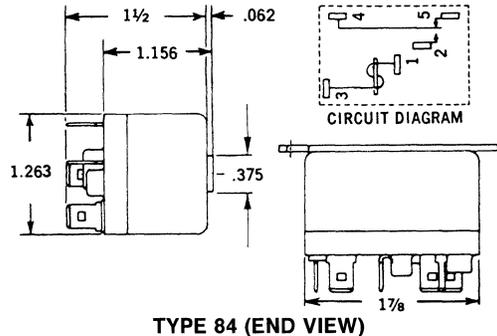
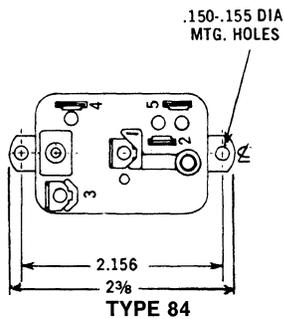
§ Based on steady state test under laboratory environmental conditions. Consult factory if application involves unusual load, speed of operation, off-on ratio, environmental or operating conditions. Electric life substantially greater when operated below rated load.

† Load tests — making inrush ratings (0.4 to 0.5 P.F.) — breaking 125% continuous rating (0.65 to 0.8 P.F.).

‡ Cross-bar contacts.

STANCOR Type	*U.L. Recognition File #	*C.S.A. Recognition File #
84, 134 & 184	E12139 or E22381	LR13360

\* U.L. and C.S.A. listing covers production part number stamped on relay. Production part number (not standard catalog number) should be submitted with file number. We will supply report date when required. CONSULT FACTORY FOR POSSIBLE U.L. AND C.S.A. RECOGNITION FOR OTHER THAN ABOVE.

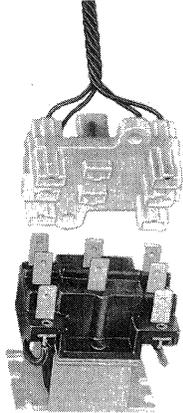


# A.C. D.C. General Purpose Relays— A.C. Power Contactors

# STANCOR

## TYPE 91

1/4" Quick Connect Termination  
Enclosed Contacts  
Operates Any Position  
Solenoid Action  
A.C. Coils Rated 50/60 Hz  
Can Be Panel Mounted  
Separate 91-180-1 Socket and Terminal Kit Available  
Wt. 6 oz (Approx)



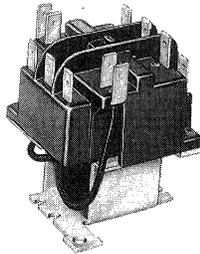
### TWO POLE DOUBLE THROW

Coil Voltage A.C.	Catalog Number	Circuit Rating Terminals		Power Rating	
		1-2-3	4-5-6	Inductive	Resistive
24	91-901	Power	Power	12 Amp. Cont. 60 Amp. Inrush 125 V.A.C.	15 Amp. 277 V.A.C. Max.
120	91-902				
208/240	91-903				
		Power	Pilot	Pilot Rating	
120	91-905			Inductive	Resistive
208/240	91-906			125 V.A. 1/10 H.P. 125/250 V.A.C.	3 Amp. 277 V.A.C. Max.
Coil Voltage D.C.	Catalog Number	Resistance in Ohms @ 25°C		D.C. Contact Rating - Resistance	
12	91D-912	23		10 Amps. @ 32 V. Max.	
24	91D-913	102			

U.L. File No. E12139 CSA File No. LR13360

## TYPE 192

1/4" Quick Connect Termination  
Enclosed Contacts  
Operates Any Position  
Solenoid Action  
Manual Operating Button  
A.C. Coils Rated 50/60 Hz  
Wt. 8 oz (Approx)



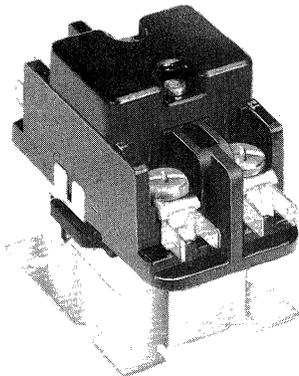
### THREE POLE DOUBLE THROW

Coil Voltage A.C.	Catalog Number	Circuit Rating Terminals			Power Rating	
		1-2-3	4-5-6	7-8-9	Inductive	Resistive
120	192-902	Power	Power	Power	12 Amp. Cont. 60 Amp. Inrush 125 V.A.C.	15 Amp. 277 V.A.C. Max.
208/240	192-903					

U.L. File No. E12139 CSA File No. LR13360

## TYPE 122 — A.C. POWER CONTACTORS

Straight-Thru Wiring  
Low Cost  
1/4" Auxiliary Quick-Connect Terminals  
Screw Power Terminals For #10 Solid Wire Max.  
Double-Make Contacts  
Small Size  
Wt. 10.5 oz (Approx)



### TWO POLE NORMALLY OPEN

Coil Voltage (50/60 Hz)	Catalog Number	Contact Rating	
		Inductive	Resistive
24	122-901	30 Amp. Cont. 150 Amp. Inrush @ 277 V.A.C. Per Pole	40 Amp. @ 600 V.A.C.
120	122-902		
208/240	122-903		
24	122-904	40 Amp. Cont. 200 Amp. Inrush @ 277 V.A.C. Per Pole With Cover	40 Amp. @ 600 V.A.C.
120	122-905		
208/240	122-906		

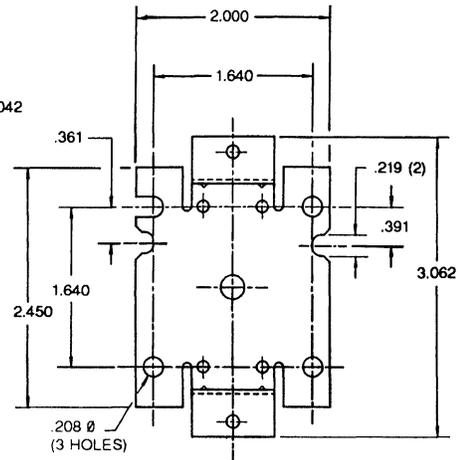
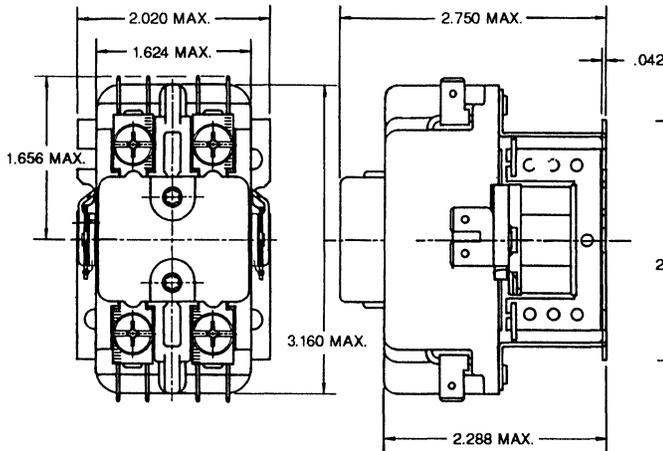
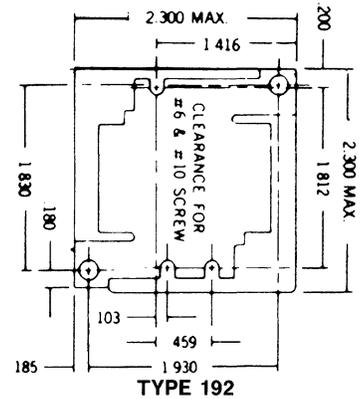
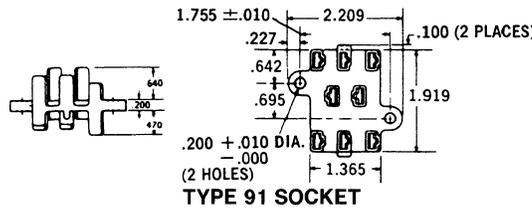
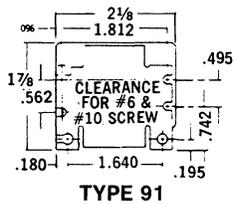
U.L. File No. E12139 CSA File No. LR13360

### ENGINEERING DESIGN DATA—Type 91, 122, 192

A.C. Type	Magnet Coil Rating (Volt Amperes)			Operation in % of Nom. Coil Rating		Breakdown Voltage All Terminals-60 Hz RMS			Contact Material		Electrical Life		Mechanical Life§		Max. Oper. Amb. °F
	Inrush	Sealed Nom.	Max.	Pick-up	Max.* Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min.	
91	24	8	10	85%	110%	1500	1000	1500	Fine Silver	Gold Alloy†	100,000†	6	750,000	60	130
122	24	5	6	85%	110%	1500	1500	1500	Silver Alloy	—	200,000†	6	500,000	60	150
192	24	8.9	12	85%	110%	1500	1000	1500	Fine Silver	Gold Alloy‡	100,000†	3	750,000	30	130

D.C. Type	Coil Rating	Operation in % of Nom Coil Rating		Breakdown Voltage All Terminals-60 Hz RMS			Contact Material		Electrical Life		Mechanical Life§		Max. Oper. Amb. °F
	Nominal Magnetic Coil Rating (Watts)	Pick-up	Max.* Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No. Load	Oper. Per Min.	
91D	6.5	75%	110%	1500	1000	1500	Fine Silver	—	100,000	6	750,000	60	140

\* Magnet coils designed for continuous duty. Do not operate at rate higher than indicated under Mechanical Life.  
 § Based on steady state test under laboratory environmental conditions. Consult factory if application involves unusual load, speed of operation, off-on ratio, environmental or operating conditions. Electric life substantially greater when operated below rated load.  
 † Load tests — making inrush ratings (0.4 to 0.5 P.F.) — breaking 125% continuous rating (0.65 to 0.8 P.F.).  
 ‡ Cross-bar contacts.



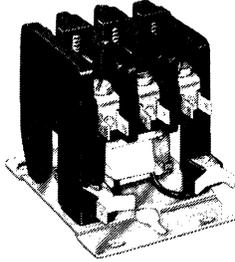
STANCOR Type	*U.L. Recognition File #	*C.S.A. Recognition File #
91	E12139	LR13360
122	E12139	LR13360
192	E12139	LR13360

\* U.L. and C.S.A. listing covers production part number stamped on relay. Production part number (not standard catalog part number) should be submitted with file number. We will supply report date when required. CONSULT FACTORY FOR POSSIBLE U.L. AND C.S.A. RECOGNITION FOR OTHER THAN ABOVE.

## A.C. Power Contactors

### TYPE 154 — 20 AMPS

Interchangeable Mounting  
Non-Positional  
Low Coil Wattage  
Double-Break Contacts  
Non-Corroding Structure  
Low Temp. Rise  
Riveted Terminal Assemblies



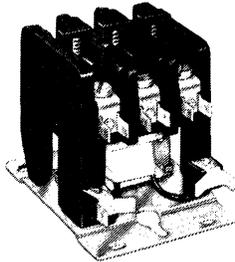
#### THREE POLE NORMALLY OPEN

Coil Voltage (50/60 Hz)	Catalog Number	Contact Rating Per Pole	
		Inductive	Resistive
120	154-902	Continuous 20 Amps. @ 600V.	30 Amps. @ 600 V. A.C. Max.
208/240	154-903	Inrush 120 Amps. @ 277 V. 100 Amps. @ 480 V. 80 Amps. @ 600 V.	

Screw Connectors line and load sides for #14 thru #8 wire. 1/4" Double Quick Connect Auxiliary and coil terminals.

### TYPE 154 — 25 AMPS

Interchangeable Mounting  
Non-Positional  
Low Coil Wattage  
Double-Break Contacts  
Non-Corroding Structure  
Low Temp. Rise  
Riveted Terminal Assemblies



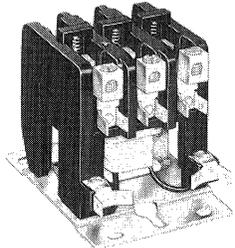
#### THREE POLE NORMALLY OPEN

Coil Voltage (50/60 Hz)	Catalog Number	Contact Rating Per Pole	
		Inductive	Resistive
24	154-904	Continuous 25 Amps. @ 600V.	35 Amps. @ 600 V. A.C. Max.
120	154-905	Inrush 150 Amps. @ 277 V. 125 Amps. @ 480 V. 100 Amps. @ 600 V.	

Screw Connectors line and load sides for #14 thru #8 wire. 1/4" Double Quick Connect Auxiliary and coil terminals.

### TYPE 154 — 30 AMPS

Interchangeable Mounting  
Non-Positional  
Low Coil Wattage  
Double-Break Contacts  
Non-Corroding Structure  
Low Temp. Rise  
Riveted Terminal Assemblies



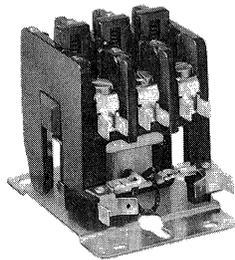
#### THREE POLE NORMALLY OPEN

Coil Voltage (50/60 Hz)	Catalog Number	Contact Rating Per Pole	
		Inductive	Resistive
24	154-907	Continuous 30 Amps. @ 600V.	40 Amps. @ 600 V. A.C. Max.
120	154-908	Inrush 180 Amps. @ 277 V. 150 Amps. @ 480 V. 120 Amps. @ 600 V.	

Pressure Connectors on line side for #14 thru #4 wire. Screw connectors on load side. For #14 thru #8 wire. 1/4" Double Quick Connect auxiliary and coil terminals.

### TYPE 154 — 40 AMPS

Interchangeable Mounting  
Non-Positional  
Low Coil Wattage  
Double-Break Contacts  
Non-Corroding Structure  
Low Temp. Rise  
Riveted Terminal Assemblies



#### TWO AND THREE POLE NORMALLY OPEN

Coil Voltage (50/60 Hz)	Catalog Number		Contact Rating Per Pole	
	2PNO	3PNO	Inductive	Resistive
24	154-913	154-910	Continuous 40 Amps. @ 600V.	50 Amps. @ 600 V. A.C. Max.
120	154-914	154-911	Inrush 240 Amps. @ 277 V. 200 Amps. @ 480 V. 160 Amps. @ 600 V.	
208/240	154-915	154-912		

Pressure Connectors on line side and load side for #14 thru #4 wire. 1/4" Double Quick Connect auxiliary and coil terminals.

U.L. File No. E12139 CSA File No. LR13360  
Wt. 19.5 oz (Approx)

### ENGINEERING DESIGN DATA—Type 154

A.C. Type	Magnet Coil Rating (Volt Amperes)			Operation in % of Nom. Coil Rating		Breakdown Voltage All Terminals-60 Hz RMS			Contact Material		Electrical Life		Mechanical Life§		Max. Oper. Amb. °F
	Inrush	Sealed Nom.	Max.	Pick-up	Max.* Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min.	
154	80	6.5	7.5	85%	110%	1500	1000	1500	Silver Alloy	—	100,000†	6	500,000	30	155

\* Magnet coils designed for continuous duty. Do not operate at rate higher than indicated under Mechanical Life.

§ Based on steady state test under laboratory environmental conditions. Consult factory if application involves unusual load, speed of operation, off-on ratio, environmental or operating conditions. Electric life substantially greater when operated below rated load.

† Load tests — making inrush ratings (0.4 to 0.5 P.F.) — breaking 125% continuous rating (0.65 to 0.8 P.F.).

STANCOR Type	*U.L. Recognition File #	*C.S.A. Recognition File #
154	E12139	LR133360

\* U.L. and C.S.A. listing covers production part number stamped on relay. Production part number (not standard catalog part number) should be submitted with file number. We will supply report date when required. CONSULT FACTORY FOR POSSIBLE U.L. AND C.S.A. RECOGNITION FOR OTHER THAN ABOVE.

#### CONSTRUCTION FEATURES

**Interchangeable Mounting** — The base plate of the 154 series contactors has been designed to provide mounting ease when replacing virtually any competitive contactor on the market.

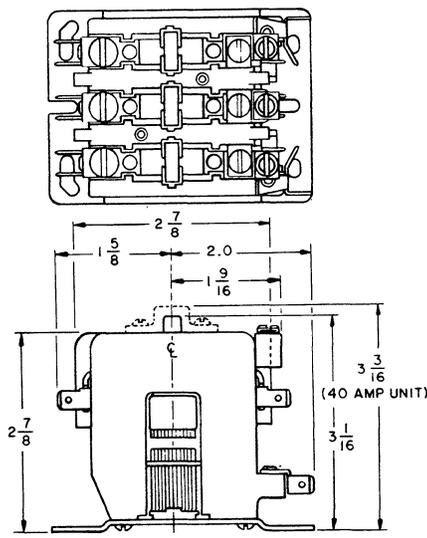
**Non-Position Sensitive** — The spring-actuated armature mechanism of the 154 contactor allows you to mount the contactor in any convenient mounting position. . . a great help in designing control boxes for today's compact equipment.

**Low Coil Wattage** — The efficient magnetic design and advanced materials used in the 154 give you the advantage of low coil wattage without sacrificing the

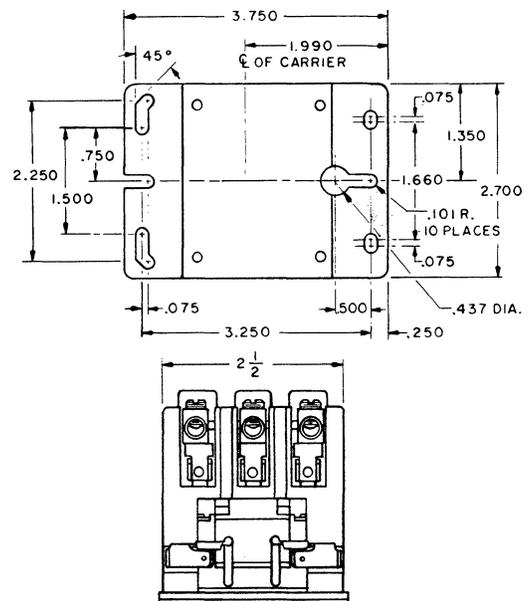
mechanical power needed for long, reliable life at rated load. Low coil wattage is especially important when contactors are controlled by 24 V, NEC Class 2 circuits. Low wattage allows you to optimize transformer size/cost requirements.

**Double-Break Contact Action** — The contact structure and double-break action of the 154, along with oversize contacts and contact cover (standard on 40 ampere version), provide superior reliability and life at full rated load. The 154 will reliably deliver life equivalent to 20 years of cycling at full rated load on a central air conditioning system.

#### TYPE 154 OUTLINE DIMENSIONS



#### TYPE 154 MOUNTING DIMENSIONS



## TYPE 75 — A.C. POWER CONTACTORS

Contact Cover  
Screw Power  
Termination  
#8 Solid Wire Max.  
Low Wattage Coil  
13" Lead Wire or  
Quick Connect  
Coil Terminals  
Screws Included in  
Boxed Units Only  
Wt. 7 oz (Approx)

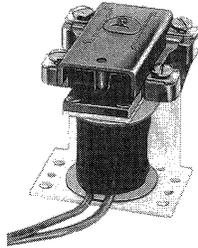


FIGURE 1  
LEAD WIRES ON COIL

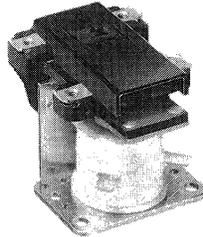


FIGURE 2  
QUICK CONNECTS  
ON COIL

### TWO POLE NORMALLY OPEN

Coil Voltage (60 Hz)	Catalog Number Fig. 1	Catalog Number Fig. 2	Contact Rating (A.C.)	
			Inductive	Resistive
115/120	75-902	75-905	2 Pole Rating 2 H.P. — 230 V. or 18 Amp. Cont. 90 Amp. Inrush	25 Amp. 240 V. Per Pole .75 P.F.
208/240	75-903	75-906		

U.L. File No. E12139 and E22381 CSA File No. LR13360

## TYPE 129 — A.C. POWER RELAYS

Double-Break Contacts  
Totally Enclosed  
Hi-Impact Case  
Screw or 1/4" Quick-  
Connect Termination  
Screws Included In  
Boxed Units Only  
U.L. and C.S.A.  
Non-Positional  
Wt. 6.5 oz (Approx)

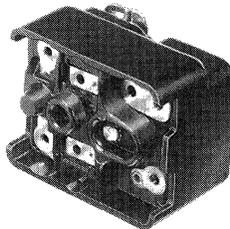


FIGURE 1  
SCREWS

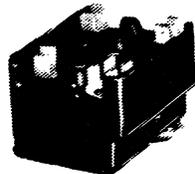


FIGURE 2  
QUICK CONNECTS

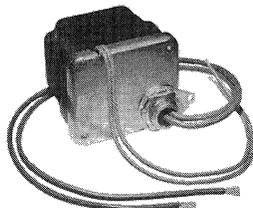
### SINGLE POLE NORMALLY OPEN AND SINGLE POLE DOUBLE THROW

Coil Voltage (50/60 Hz)	Catalog Number				Contact Rating 250 V.A.C. Max.	
	Figure 1		Figure 2		Inductive	Resistive
	1PNO	1PDT†	1PNO	1PDT†		
24	129-902	129-906	129-911		18 Amp. Continuous 1 H.P. - 125 V. 2 H.P. - 250V. Single Phase	18 Amp. Continuous
120	129-903	129-907	129-912			
208/230	129-904					

U.L. File No. E12139 CSA File No. LR13360

## TYPE 129AR

Totally Enclosed  
Hi-Impact Case  
Double-Break Contacts  
Easy to Mount  
U.L. and C.S.A.  
Pre-Wired  
No Enclosure Required  
Low Cost  
Wt. 12.5 oz (Approx)



### SINGLE POLE NORMALLY OPEN AND SINGLE POLE DOUBLE THROW

Coil Voltage 50/60 Hz)	Catalog Number		Contact Rating — 250 V.A.C. Max.	
	1PNO	1PDT†	Inductive	Resistive
24	129AR-901	129AR-904	18 Amp. Continuous 1 H.P. - 120V. 1 1/2 H.P. - 250 V. Single Phase	18 Amp. Continuous
120	129AR-902	129AR-905		

FIT ANY 1/2" KNOCK-OUT. MEETS STANDARD CODE REQUIREMENTS.  
Underwriters Lab. white card listed. File E12139D 184N13. 13, 7/17/63.  
Aluminum die-cast base and bushing. High impact phenolic enclosure.  
Locknuts and position locking washer included. Color coded 8" lead wires.

† All contact terminals must be wired same polarity.

## ENGINEERING DESIGN DATA—Type 75, 129, 129AR

A.C. Type	Magnet Coil Rating (Volt Amperes)			Operation in % of Nom. Coil Rating		Breakdown Voltage All Terminals—60 Hz RMS			Contact Material		Electrical Life		Mechanical Life§		Max. Oper. Amb. °F
	Inrush	Sealed Nom.	Max.	Pick-up	Max.* Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min.	
75	16	10	12	85%	110%	1500	1000	1500	Silver Alloy	—	100,000†	6	1,000,000	60	140
129	10	4.5	5.0	85%	110%	1500	1000	1500	Silver Alloy	—	100,000	6	500,000	60	130
129AR	10	4.5	5.0	85%	110%	1500	1000	1500	Silver Alloy	—	100,000†	3	500,000	60	130

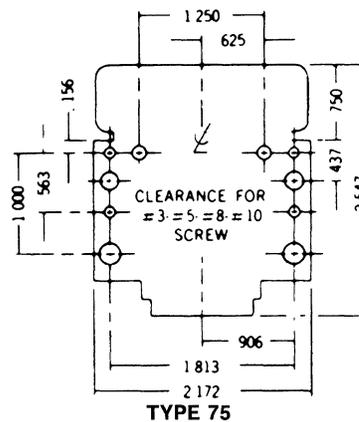
\* Magnet coils designed for continuous duty. Do not operate at rate higher than indicated under Mechanical Life.

§ Based on steady state test under laboratory environmental conditions. Consult factory if application involves unusual load, speed of operation, off-on ratio, environmental or operating conditions. Electric life substantially greater when operated below rated load.

† Load tests — making inrush ratings (0.4 to 0.5 P.F.) — breaking 125% continuous rating (0.65 to 0.8 P.F.).

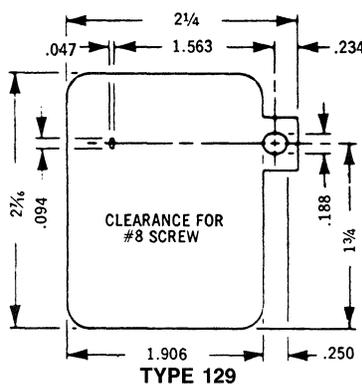
STANCOR Type	*U.L. Recognition File #	*C.S.A. Recognition File #
75	E12139	LR133360-14, -15
129, 129AR	E12139	LR13360

\* U.L. and C.S.A. listing covers production part number stamped on relay. Production part number (not standard catalog part number) should be submitted with file number. We will supply report date when required. CONSULT FACTORY FOR POSSIBLE U.L. AND C.S.A. RECOGNITION FOR OTHER THAN ABOVE.

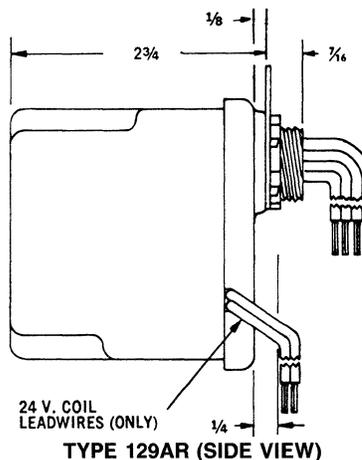


TYPE 75

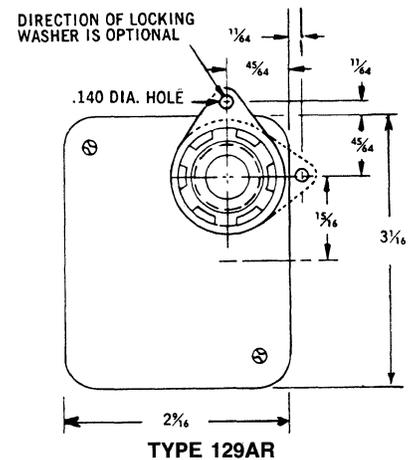
### OUTLINE DIMENSIONS



TYPE 129



TYPE 129AR (SIDE VIEW)



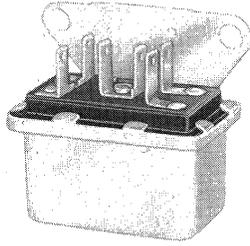
TYPE 129AR

# D.C. Power Relays- Heavy Duty D.C. Power Contactors

# STANCOR

## TYPE 150

- Metal Case
- Totally Enclosed
- Isolated Coil
- Side Bracket
- 1/4" Quick-Connect Termination
- Hardware Included in Boxed Units Only
- Low Costs
- Wt. 4.0 oz (Approx)



### SINGLE POLE NORMALLY OPEN

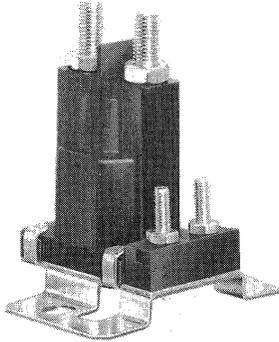
D.C. Coil Voltage	Resistance in Ohms	Catalog Number	Contact Rating	
			Voltage	Current
6	11	150-901	6	25 Amp.
12	43	150-902	12	25 Amp.
24	190	150-903	24	12 Amp.

### SINGLE POLE DOUBLE THROW

D.C. Coil Voltage	Resistance in Ohms	Catalog Number	Contact Rating	
			Voltage	Current
6	11	150-904	6	15 Amp.
12	43	150-905	12	15 Amp.
24	190	150-906	24	7.5 Amp.

## TYPE 120 SOLENOID- HEAVY DUTY D.C. POWER CONTACTOR

- Water resistant
- Durable in both high temperature and high vibration conditions
- Capable of handling low-level and high current requirements
- Versatile termination
- Recommended mounting terminals up or horizontal



- Temperature Range
- -20°F to 150°F (Intermittent)
  - -20°F to 120°F (Continuous)

- Duty Cycle
- Continuous
  - Intermittent -30 seconds "ON" maximum and minimum 6 minutes "OFF"

Wt. 6.0 oz (Approx)

### SINGLE POLE NORMALLY OPEN

Catalog Number Continuous Duty		Coil Volts DC	Coil Resistance Continuous Duty
Standard Bracket	L Bracket		
120-901	120-907	12	16.0
120-902	120-908	15	20.8
120-903	120-909	18	37.0
120-904	120-910	24	64.0
120-905	120-911	36	100.0
Intermittent Duty		Coil Volts DC	Intermittent Duty
Standard Bracket	L Bracket		
120-906	120-912	12	6.0

Rating	Full Load	Inrush	Elec. Life	Contact Material
Continuous	100A	400A	*	Silver Alloy
Intermittent	80A	400A	10,000	Copper

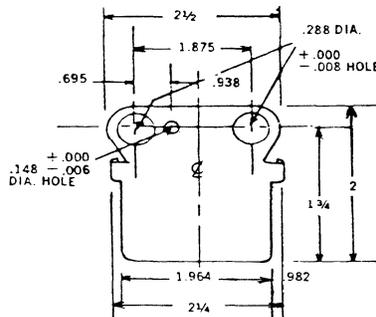
\*12 Vdc, 15 Vdc 50,000 operations. 18 Vdc, 24 Vdc, 36 Vdc 25,000 operations.

### ENGINEERING DESIGN DATA—Type 60, 120, 150

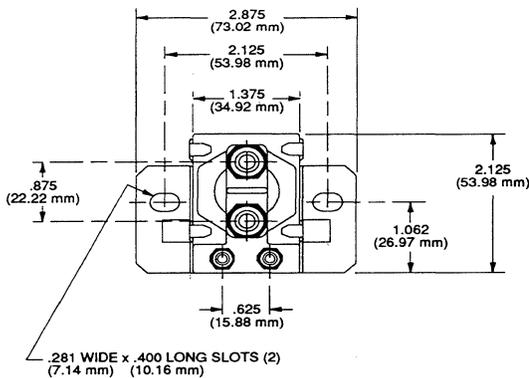
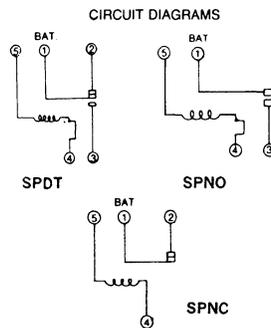
D.C. Type	Coil Rating	Operation in % of Nom. Coil Rating		Breakdown Voltage All Terminals—60 Hz RMS			Contact Material		Electrical Life		Mechanical Life§		
	Nominal Magnetic Coil Rating (Watts)	Pick-up	Max.* Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min.	Max. Oper. Amb. °F
120	—	75%	110%	—	—	500	Silver Alloy or Copper	—	—	2	100,000	30	150
150	3	75%	110%	500	500	500	Silver Alloy	—	500,000	12	1,000,000	12	122

\* Magnet coils designed for continuous duty. Do not operate at rate higher than indicated under Mechanical Life.

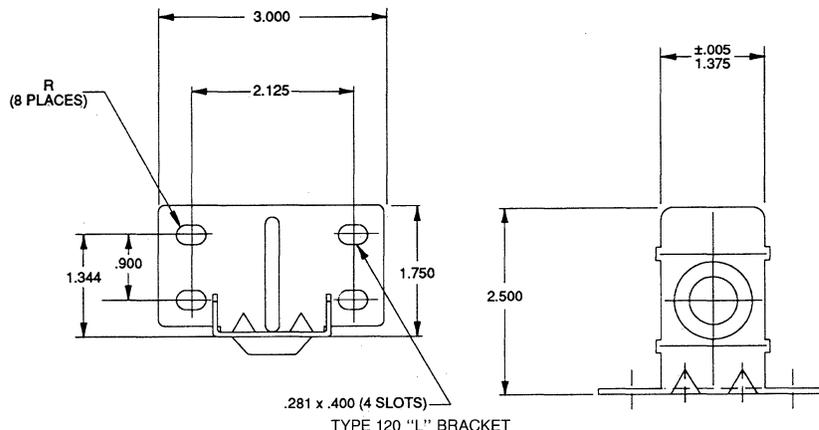
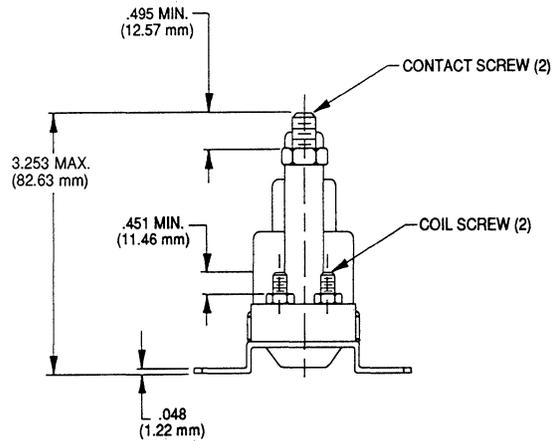
§ Based on steady state test under laboratory environmental conditions. Consult factory if application involves unusual load, speed of operation, off-on ratio, environmental or operating conditions. Electric life substantially greater when operated below rated load.



TYPE 150 SIDE VIEW



TYPE 120 STANDARD BRACKET



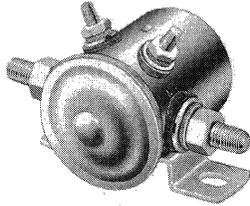
TYPE 120 "L" BRACKET

## D.C. Power Contactors

### TYPE 70 D.C. POWER CONTACTOR

#### 4 TERMINAL

Isolated Coil  
Silver or Copper  
Contacts  
Hardware Included  
Continuous Duty Coil  
Ease In Writing  
Wt. 14.0 oz (Approx)



#### CONTACT RATING

##### D.C. INDUCTIVE LOAD — 36 V. MAX.

Voltage (D.C.)	Normally Open		Normally Closed	
	Continuous	Inrush	Continuous	Inrush
6	80 Amp.	300 Amp.	60 Amp.	100 Amp.
12	80 Amp.	150 Amp.	60 Amp.	60 Amp.
24-36	50 Amp.	50 Amp.	30 Amp.	30 Amp.

- Non-turning studs
- Drawn steel dust proof enclosure
- Copper stud power & coil terminals
- Double break rotating disc movable contact
- Solenoid actuated
- Suggested mounting — cap down

#### SINGLE POLE NORMALLY OPEN

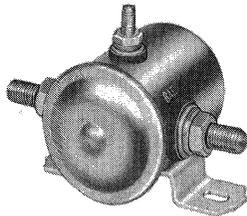
##### 4 TERMINAL

Coil Voltage (D.C.)	Resistance in Ohms @ 25°C	Catalog Number	Contact Material
6	4	70-901	Copper
12	16	70-902	
24	60	70-903	
36	114	70-904	
12	16	70-906	Silver
24	60	70-907	
36	114	70-908	

### TYPE 70

#### 3 TERMINAL

Continuous Duty Coil  
Copper Contacts  
Hardware Included  
Coil Grounded to Case or Coil Common to Load  
Rugged Construction  
Wt. 14.0 oz (Approx)



#### SINGLE POLE NORMALLY OPEN

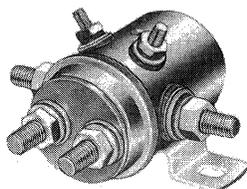
##### 3 TERMINAL

Coil Voltage (D.C.)	Resistance in Ohms @ 25°C	Catalog Number	Contact Material
6	4	70-913	Copper Coil Grounded to Case
12	16	70-914	
24	60	70-915	
6	4	70-917	Copper Coil Grounded to Load
12	16	70-918	

### TYPE 70

#### 6 TERMINAL

Continuous Duty Coil  
Isolated Coil  
Hardware Included  
Choice of 2 Types Contacts  
Wt. 14.0 oz (Approx)



#### SINGLE POLE DOUBLE THROW

##### 6 TERMINAL

Coil Voltage (D.C.)	Resistance in Ohms @ 25°C	Catalog Number	Contact Material
6	4	70-909	N.O. and N.C. Silver
12	16	70-910	
24	60	70-911	
36	114	70-912	
12	16	70-922	N.O. Copper and N.C. Silver
24	60	70-923	

U.L. 583 Recognized File No. AU2138

### ENGINEERING DESIGN DATA—Type 70

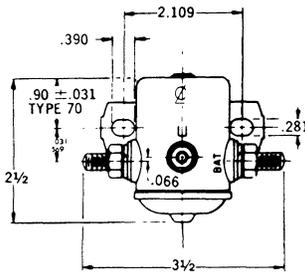
D.C. Type	Coil Rating		Operation in % of Nom. Coil Rating		Breakdown Voltage All Terminals—60 Hz RMS			Contact Material		Electrical Life		Mechanical Life§		
	Nominal Magnetic Coil Rating (Watts)		Pick-up	Max.* Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min.	Max. Oper. Amb. °F
70	9		75%	110%	500	500	500	Copper or Silver	—	100,000	4	250,000	4	122

\* Magnet coils designed for continuous duty. Do not operate at rate higher than indicated under Mechanical Life.

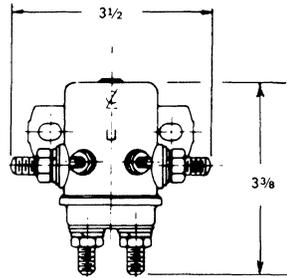
§ Based on steady state test under laboratory environmental conditions. Consult factory if application involves unusual load, speed of operation, off-on ratio, environmental or operating conditions. Electric life substantially greater when operated below rated load.

UL 583 Recognized, File AU2138

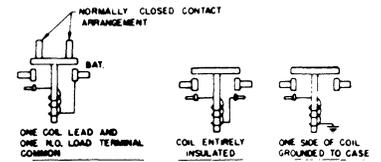
#### OUTLINE DIMENSIONS (Not for Construction)



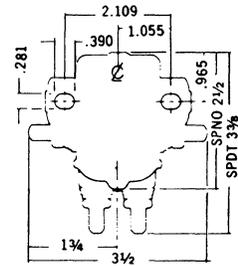
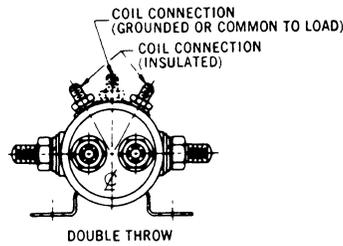
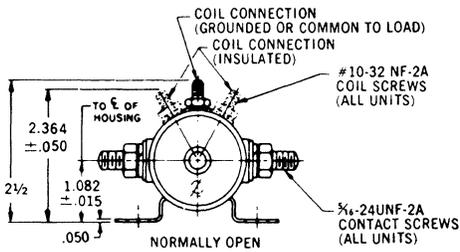
TYPE 70



#### ELECTRICAL CIRCUIT DIAGRAM



#### MOUNTING DIMENSIONS

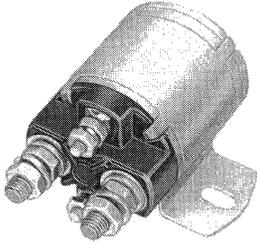


# Heavy Duty Power Contactors D.C. Power Contactors

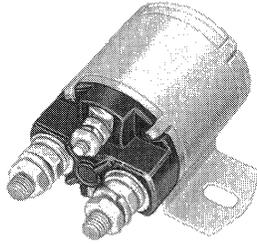
# STANCOR

## TYPE 124

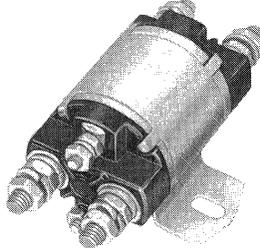
Terminal Hardware  
Supplied



**4 TERMINAL  
S.P.N.O.**



**3 TERMINAL  
S.P.N.O.**



**6 TERMINAL  
S.P.D.T.**

Coil Voltage D.C.	Coil Resistance +8% 25°	SPNO 4 Terminal Isolated Coil
12 V	13.2	124-902
24 V	53	124-903
36 V	120	124-904

Coil Voltage D.C.	Coil Resistance +8% 25°	SPNO 3 Terminal Grounded Coil
12 V	13.2	124-906
24 V	53	124-907

Voltage DC	Contact Rating D.C. Inductive Load			
	NO		NC*	
	Cont.	Inrush	Cont.	Inrush
12	100 Amps.	400 Amps.	50 Amps.	200 Amps.
24	100 Amps.	400 Amps.	50 Amps.	100 Amps.
36	100 Amps.	400 Amps.	50 Amps.	100 Amps.

Coil Voltage D.C.	Coil Resistance +8% 25°	SPDT 6 Terminal Isolated Coil
12 V	13.2	124-910
24 V	53	124-911
36 V	120	124-912

- Max. Pick-Up 75% rated coil voltage.
- Design Ambient — 40°C to 65°C.
- Maximum Continuous coil watts. 12 @ rated voltage.
- Recommended Mounting Position: Unit in vertical plane with coil terminals up. Horizontal plane is acceptable.
- Design meets U.L. 583 Industrial Truck Standard. Dust and splash proof cover.
- Application: Controlling D.C. starting motors on gasoline engine driven auxiliaries. Battery charging power circuits, motor reversing circuits as found in winch applications.
- The 124 is also applicable where ruggedness and high current capacity is required for D.C. mobile equipment such as: in-plant lifts, industrial equipment, recreational vehicles — golf carts, camp trailers, motor homes.
- Contact Termination: 3/16" -24 UNF-2A stud.
- Coil Termination: #10-32 UNF-2A thread.
- Wt. (Approx) SPNO 16 oz. SPDT 19 oz.

\* NC contact ratings are set up and carry applications such as reversing DC motors. Consult factory for other applications.

## TYPE 586

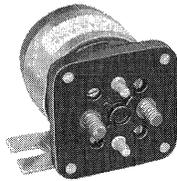
Sealed Solenoid is  
Dust and Splash Proof

**4 TERMINAL  
Continuous Duty Coil  
Silver/Alloy Contacts**

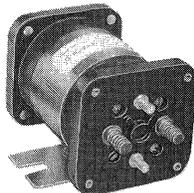
Pole Form: SPNO, SPDT  
Incorporates double-make  
or double-break contacts

Wt. (Approx)

SPNO 24 oz. SPDT 26 oz.



**NORMALLY  
OPEN TYPE**



**DOUBLE  
THROW TYPE**

Type 586 Sealed Contactors are designed for controlling DC starting motors on gasoline engine driven auxiliaries, battery-charging power circuits, low-voltage DC motor generator sets, golf carts, reversing circuits in winch applications, industrial lift trucks, to mention a few.

**SINGLE POLE NORMALLY OPEN  
SINGLE POLE DOUBLE THROW  
4 TERMINAL—SILVER/ALLOY CONTACTS**

Coil Voltage (D.C.)	SPNO Resistance in Ohms @ 25°C	Cat. No. S.P.N.O.	SPDT Resistance in Ohms @ 25°C	Cat. No. S.P.D.T.
6	5.25	586-901	3.3	586-910
12	21.0	586-902	13.2	586-911
15	32.8	586-903		
24	84.0	586-905	53.0	586-914
36	189.0	586-906	120.0	586-915
48	336.0	586-907	213.0	

Volts D.C.	Contact Rating D.C. Inductive Load			
	NO		NC*	
	Cont.	Inrush	Cont.	Inrush
6	200A	600A	100A	300A
12, 15	200A	600A	100A	300A
24 & 36	200A	600A	100A	200A

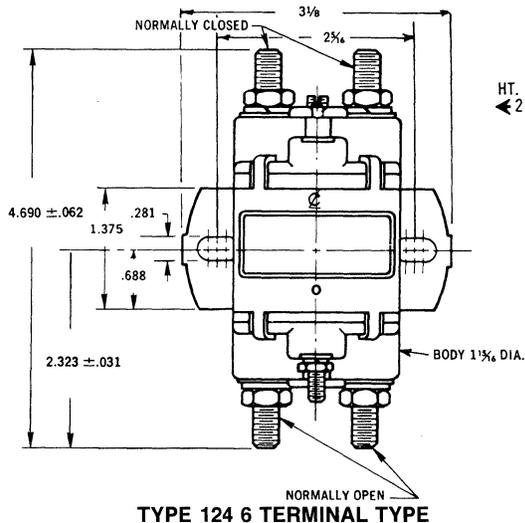
\* NC contact ratings are set up and carry applications such as reversing DC motors. Consult factory for other applications.

## ENGINEERING DESIGN DATA—Type 124, 586

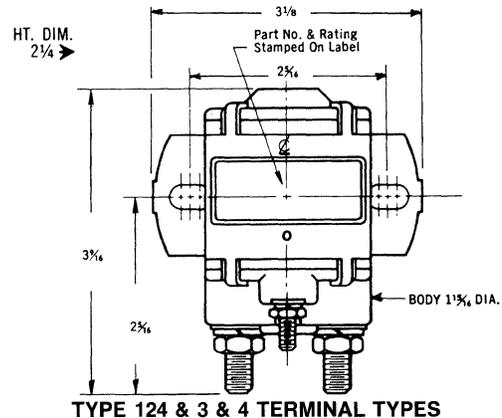
D.C. Type	Coil Rating		Operation in % of Nom. Coil Rating		Breakdown Voltage All Terminals-60 Hz RMS			Contact Material		Electrical Life		Mechanical Life§		
	Nominal Magnetic Coil Rating (Watts)		Pick-up	Max.* Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min.	Max. Oper. Amb. °F
124	12		75%	110%	500	500	500	Silver Alloy	—	50,000	2	100,000	6	149
586	12		75%	110%	500	500	500	Silver	—	50,000	2	100,000	30	149

\* Magnet coils designed for continuous duty. Do not operate at rate higher than indicated under Mechanical Life.

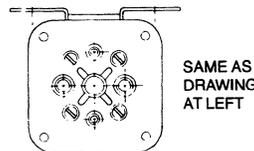
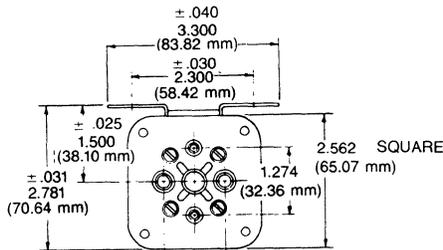
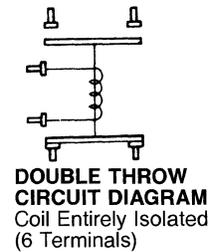
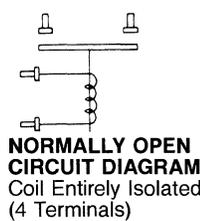
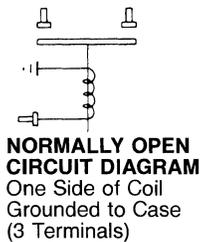
§ Based on steady state test under laboratory environmental conditions. Consult factory if application involves unusual load, speed of operation, off-on ratio, environmental or operating conditions. Electric life substantially greater when operated below rated load.



TYPE 124 6 TERMINAL TYPE

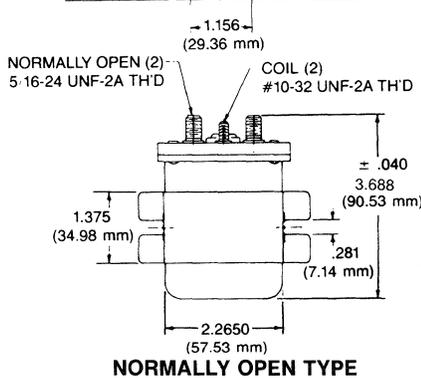


TYPE 124 & 3 & 4 TERMINAL TYPES

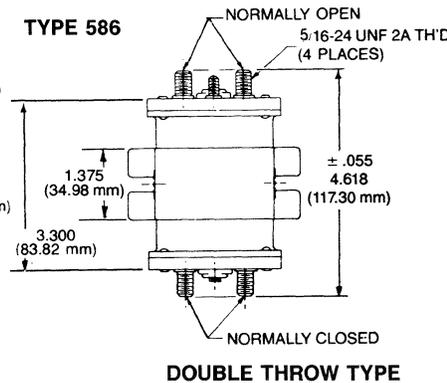


SAME AS DRAWING AT LEFT

Duty Cycle:  
1. Continuous  
Temperature Range  
-40°F to 149°F



NORMALLY OPEN TYPE

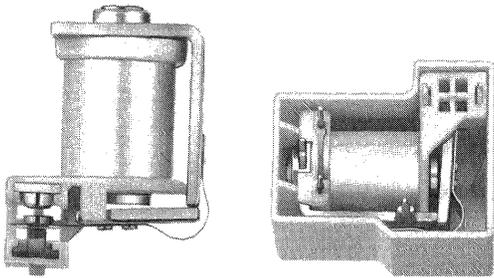


DOUBLE THROW TYPE

## D.C. Printed Circuit Power Relays

### TYPE 690

U.L. and C.S.A.



OPEN

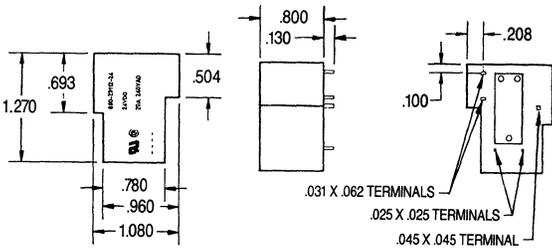
DUST COVER



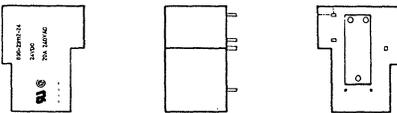
SEALED

#### DIMENSIONS

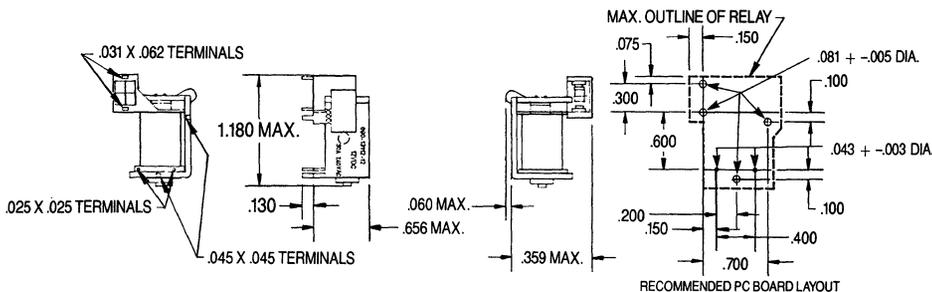
#### TD SERIES WITH DUST COVER



#### TS SERIES SEALED VERSION



#### TO SERIES OPEN VERSION



DIMENSIONS ARE THE SAME AS TD SERIES.  
All Terminal Dimensions Nominal

#### SINGLE POLE NORMALLY OPEN

Coil Voltage	Construction	STANCOR Part No.
5 VDC	Open	TO-9005A
	Dust Cover	TD-9005A
	Sealed	TS-9005A
12 VDC	Open	TO-9012A
	Dust Cover	TD-9012A
	Sealed	TS-9012A
24 VDC	Open	TO-9024A
	Dust Cover	TD-9024A
	Sealed	TS-9024A

#### SINGLE POLE NORMALLY CLOSED

Coil Voltage	Construction	STANCOR Part No.
5 VDC	Open	TO-9005B
	Dust Cover	TD-9005B
	Sealed	TS-9005B
12 VDC	Open	TO-9012B
	Dust Cover	TD-9012B
	Sealed	TS-9012B
24 VDC	Open	TO-9024B
	Dust Cover	TD-9024B
	Sealed	TS-9024B

#### SINGLE POLE DOUBLE THROW

Coil Voltage	Construction	STANCOR Part No.
5 VDC	Open	TO-9005C
	Dust Cover	TD-9005C
	Sealed	TS-9005C
12 VDC	Open	TO-9012C
	Dust Cover	TD-9012C
	Sealed	TS-9012C
24 VDC	Open	TO-9024C
	Dust Cover	TD-9024C
	Sealed	TS-9024C

#### CONTACT RATINGS SILVER-CADMIUM OXIDE

Voltage	Load Type	Form A (NO)	Form B (NC)	Form C	
				(NO)	(NC)
A.C.	Inductive or Resistive	30A @ 240V.A.C.	15A @ 240V.A.C.	20A @ 240V.A.C.	10A @ 240V.A.C.
A.C.	Motor Tungsten Ballast General Purpose	1 H.P. @ 120V.A.C.	1/4 H.P. @ 120V.A.C.	1 H.P. @ 120V.A.C.	1/4 H.P. @ 120V.A.C.
		2 H.P. @ 120V.A.C.	1/2 H.P. @ 240V.A.C.	2 H.P. @ 240V.A.C.	1/2 H.P. @ 240V.A.C.
		5A @ 240V.A.C.	3A @ 240V.A.C.	5A @ 240V.A.C.	3A @ 240V.A.C.
		6A @ 277V.A.C.	3A @ 277V.A.C.	6A @ 277V.A.C.	3A @ 277V.A.C.
D.C.	Inductive Resistive	20A @ 28V.D.C.	15A @ 28V.D.C.	15A @ 28V.D.C.	5A @ 28V.D.C.
		20A @ 28V.D.C.	10A @ 28V.D.C.	20A @ 28V.D.C.	10A @ 28V.D.C.

#### DC COIL DATA

Nominal Voltage (V.D.C.)	Voltage Range @ 25degC (V.D.C.)	Resistance +/- 10% @ 25degC (Ohms)	Inductance +/- 10% @ 25degC (Henrys)	Coil Power +/- 10% @ 25degC (Watt)	Nominal VA Sealed (VA)
5	4-6	27	.02	.93	1
12	9.6-14.4	155	.13	.93	1
24	19.2-28.8	660	.55	.87	1

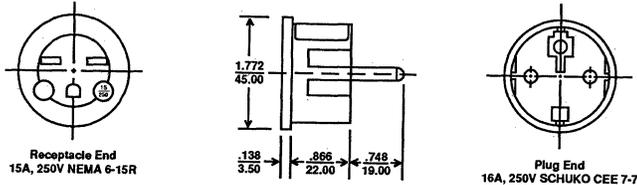


## AMERICAN — EUROPEAN (ADT-30100)

STANCOR announces a new line of grounding adapters that allows NEMA 6-15P plugs to interface with European CEE-7 SCHUKO type grounding outlets. These new adapters are ideal for use on electrical/electronic equipment exported to countries that have standardized on the CEE-7 SCHUKO outlet configuration, as they provide a grounding connection from the NEMA 6-15P plug to the CEE-7 outlet grounding system.

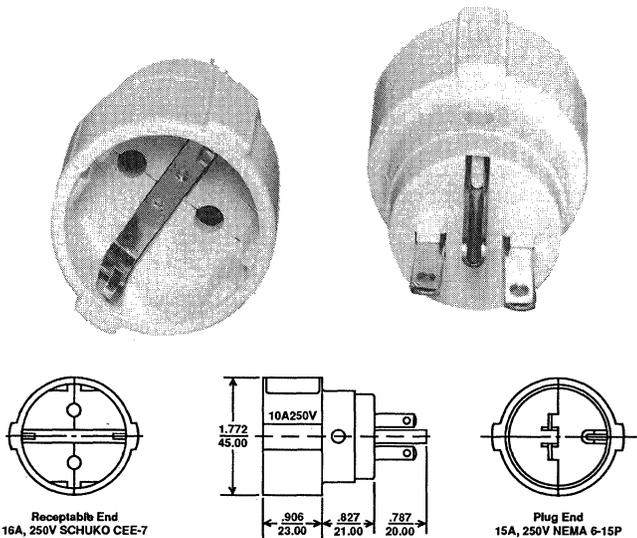
The CEE-7 SCHUKO outlet configuration is one of the most common configurations in European countries and many other countries of the world.

The use of these adapters reduces the need for expensive and difficult-to-obtain foreign type power cords and cord sets, as they provide a fast, easy means of connecting equipment to European outlets.



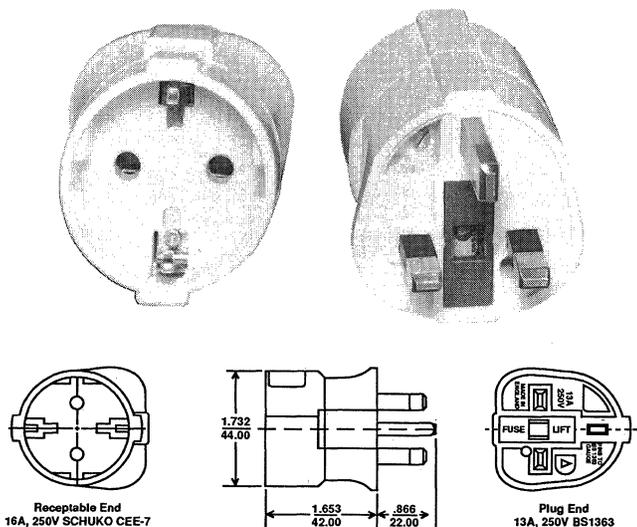
## EUROPEAN — AMERICAN (ADT-30120)

Available with SCHUKO CEE-7 type receptacle configurations, these adapters allow CEE-7 SCHUKO plugs to mate with American NEMA 6-15R receptacles. The adapters are ideal for use on production lines, test benches and other areas where products equipped with SCHUKO plugs need to be mated with American NEMA 6-15R outlets.



## EUROPEAN — UNITED KINGDOM (ADT-30140)

Available with CEE-7 SCHUKO type receptacle configurations, these adapters provide electrical/electronic equipment to mate with United Kingdom 13A, 250V receptacles.



# STANCOR

## International Adapter Plugs

### TRANSFORMER AND ADAPTER PLUG SELECTION GUIDE

STEP-DOWN AUTO-TRANSFORMER 230V 50/60 Hz to 115V 50/60 Hz		
P/N	VA	AMPS
GSD-75	75	.65
GSD-100	100	.87
GSD-150	150	1.30
GSD-250	250	2.17
GSD-300	300	2.61
GSD-350	350	3.04
GSD-500	500	4.35
GSD-750	750	6.52
GSD-1000	1000	8.70
GSD-1500	1500	13.04

STEP-UP AUTO-TRANSFORMER 115V 50/60 Hz to 230V 50/60 Hz		
P/N	VA	AMPS
P-8637	85	.37
P-8638	125	.54
P-8639	300	1.30
P-8640	500	2.17
P-8689	1000	4.35

STEP-DOWN ISOLATION TRANSFORMER 230V 50/60 Hz to 115V 50/60 Hz		
P/N	VA	AMPS
GISD-100	100	.87
GISD-150	150	1.30
GISD-250	250	2.17
GISD-500	500	4.35
GISD-1000	1000	8.70

#### APPLICATION NOTES (Transformer):

The correct transformer selection is based on the electrical rating of the device(s) to be operated. The nameplate will list either a VA (Watts) rating or an AMPS rating. Using this nameplate rating, the user can select the correct transformer from the above lists to satisfy the requirement.

If more than one device is to be operated by a single transformer, the user may provide an outlet strip to be plugged into the transformer. However, the transformer selected must have a capacity equal to or greater than the sum of the VA (Watt) ratings or AMP ratings of the devices to be operated.

#### APPLICATION NOTES (Adapter Plug):

For safety reasons, all STANCOR step-up and step-down transformers with cord connected input plug and output receptacles use NEMA 6-15P (Plug) and NEMA 6-15R (Receptacle) for the 220-240 volt connections.

When traveling to the countries listed in Table 1, you must purchase an ADT-30100 adapter along with the step-down transformer of the correct VA rating.

When bringing equipment with an input rating of 220-240 volts from the countries listed in Table 1, you must purchase an ADT-30120 adapter along with the step-up transformer of the correct VA rating.

**NOTE:** If a NEMA 6-15R receptacle with 220-240 volts is available at your installation, you will only need to purchase the adapter.

When traveling to the countries listed in Table 2, you must purchase one each of the ADT-30100 and ADT-30140 adapter along with the step-down transformer of the correct VA rating.

### STANCOR ADAPTER USAGE TABLES

TABLE 1 COUNTRY:				TABLE 2 COUNTRY:			
Algeria	France	Indonesia	Poland	Argentina	Chana	Mauritius	Scotland
Austria	French Guiana	Jordan	Romania	Bahrain	Gibraltar	Malaysia	Seychelles
Belgium	Gabon	Madagascar	Senegal	Botswana	Grenada	Malta	Singapore
Bulgaria	Germany	Majorca Island	Spain	Burma	Hong Kong	Nigeria	Sudan
Burundi	Greece	Mali, Rep	Surinam	Channel Island	Iraq	N. Ireland	Tanzania
Cameroon	Guadeloupe	Martinique	Sweden	Cyprus	Ireland	Oman	Uganda
Canary Island	Guinea	Mozambique	Togo	Dominica	Isle of Man	Qatar	United Arab
Cape Verde, RP	Guinea Bissau	Netherlands	Turkey	Egypt	Kenya	St. Kits-Nivis	Emirates
Czechoslovakia	Hungary	Netherlands,	USSR	England	Kuwait	St. Lucia	Wales
Djibouti, REP	Iceland	Antilles	Yugoslavia	Gambia	Liberia	St. Vincent	Zambia
Finland		Norway	Zaire		Malawi	Saudi Arabia	Zimbabwe

**NOTE:** The information and recommendations presented here were compiled from a large number of sources. There is consequently some possibility of error or omissions for which STANCOR Products cannot assume responsibility. The information presented here should not be taken as final in the case of industrial or highly specialized commercial installations.

# **STANCOR<sup>®</sup>**

## **FULL LINE CATALOG**

**TRANSFORMERS**  
**WALL PLUG-IN**  
**POWER SOURCES**  
**RELAYS**  
**CONTACTORS**  
**ACCESSORIES**

**STANCOR HEADQUARTERS:**  
**WHITE-RODGERS LOGANSPOUT DIVISION**  
131 GODFREY STREET, LOGANSPOUT, IN 46947  
PHONE 219/722-2244  
FAX 219/722-5189

 **WHITE-RODGERS**   
*Controlling America's Indoor Comfort*