

# 60 Hz 3 Phase Power Transformers

- Military Designation No. TF5S03ZZ
- Industrial style also standard
- Compact sizes
- Outputs-DELTA or WYE selectable
- 5 different inputs available
- Ideal for naval electronics, ground support equipment, industrial controls and telecommunications



## Specifications

### Input Primary:

WYE: 120V L-Com. or  
208 V L-L Suffix A  
DELTA: 120 V L-L Suffix C  
DELTA: 230 V L-L Suffix E  
DELTA: 440 V L-L Suffix F

NOTE: To order a specific input voltage, add suffix to model number, e.g., 6D( )15-200E has Delta 230 V L-L input.

### Input Frequency:

50 Hz to 65 Hz, 3 phase.

### Regulation:

10% or less no load to full load; (6% on sizes 3 through 6).

### Secondary Voltage Tolerance:

Within 5% when measured at full load and listed input.

### Dielectric Withstanding Voltage:

1500 V rms.

### Efficiency:

Ranges from 90% to 95% typical.

### Operating Ambient Temperature:

80°C maximum (sizes 1 through 6)  
60°C maximum (sizes 7 through 9)

### MIL-PRF-27F\* Construction:

Grade 6, Class S. Specify the Letter "M" in the model number, e.g., 6DM15-200 ( ).

NOTE: MIL-PRF 27F\*, add .20 to Dim. A, B, C.

### Industrial Construction:

Industrial Grade (open frame). Specify the letter "F" in the model number, e.g., 6DF15-200( ).

### Output Secondary:

See output voltage and current of specific models listed.

**Other outputs and/or inputs available upon request.**

\* Superseded MIL-T-27

## Dimensions

Size	A	B	C	D	E	F	G
1	6.10	4.10	4.62	4.10	3.10	3.75	4.81
2	7.70	4.10	5.43	4.10	3.10	4.00	6.00
3	7.70	5.10	5.43	5.10	4.10	4.00	6.00
4	9.20	4.60	6.78	5.10	3.86	5.24	7.50
5	9.20	5.10	6.78	5.60	4.36	5.24	7.50
6	9.20	5.85	6.78	6.10	4.86	5.24	7.50
7	11.00	4.85	8.13	5.10	3.86	6.40	9.00
8	11.00	5.35	8.13	5.60	4.36	6.40	9.00
9	11.00	5.85	8.13	6.10	4.86	6.40	9.00

Dim. Tol.: E,F,G  $\pm$  .06

\*Add .20 to Dim A, B, C for 6DM Model

## Mechanical Drawings

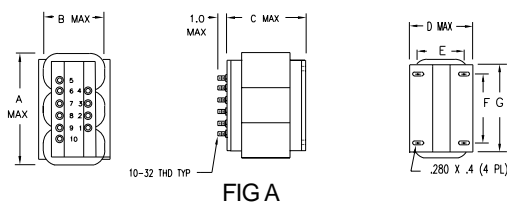


FIG A

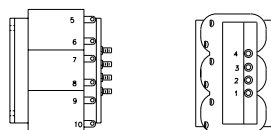
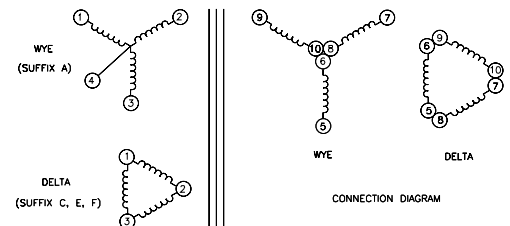


FIG B

## Circuit Diagram



### Input Connection:

WYE: L-Com. 1, 2, 3, Line 4 Com.

WYE: L-L 1, 2, 3, (Pin 4 not used)

DELTA: L-L 1, 2, 3, (Pin 4 absent)

### Output Connection:

WYE: L-Com. connect 6-8-10

Load 5-6, 7-6, 9-6

WYE: L-L connect 6-8-10 Load 5, 7, 9

DELTA: L-L connect 6-9, 10-7, 8-5

Load 5, 7, 9



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## 60 Hz 3 Phase Power Transformers

Model No.	Output Per Phase DELTA: L to L (3 wire) WYE: L to COM. (4 wire)		Output Per Phase WYE: L to L (3 wire)		Size	Weight Lbs. (Typ.)
	Volts RMS	Load Current Amps	Volts RMS	Load Current Amps		
6D( )5-200( )	5	13.30	8.66	7.70	1	14
6D( )5-450( )	5	30.00	8.66	17.30	2	20
6D( )5-650( )	5	43.30*	8.66	25.00	3	28
6D( )12-200( )	12	5.56	20.8	3.21	1	14
6D( )12-450( )	12	12.50	20.8	7.21	2	20
6D( )12-650( )	12	18.10	20.8	10.40	3	28
6D( )12-850( )	12	23.60	20.8	13.60	4	39
6D( )12-1100( )	12	30.60	20.8	17.60	5	48
6D( )12-1500( )	12	41.70*	20.8	24.00	6	58
6D( )12-2000( )	12	55.55*	20.8	32.05	7	60
6D( )12-2500( )	12	69.44*	20.8	40.09	8	68
6D( )12-3000( )	12	83.33*	20.8	48.08	9	78
6D( )15-200( )	15	4.44	26.0	2.56	1	14
6D( )15-450( )	15	10.00	26.0	5.77	2	20
6D( )15-650( )	15	14.40	26.0	8.33	3	28
6D( )15-850( )	15	18.90	26.0	10.90	4	39
6D( )15-1100( )	15	24.40	26.0	14.10	5	48
6D( )15-1500( )	15	33.30	26.0	19.20	6	58
6D( )15-2000( )	15	44.44*	26.0	25.65	7	60
6D( )15-2500( )	15	55.55*	26.0	32.05	8	68
6D( )15-3000( )	15	66.66*	26.0	38.46	9	78
6D( )20-200( )	20	3.33	34.6	1.93	1	14
6D( )20-450( )	20	7.50	34.6	4.33	2	20
6D( )20-650( )	20	10.80	34.6	6.26	3	28
6D( )20-850( )	20	14.20	34.6	8.19	4	39
6D( )20-1100( )	20	18.30	34.6	10.60	5	48
6D( )20-1500( )	20	25.00	34.6	14.40	6	58
6D( )20-2000( )	20	33.33	34.6	19.27	7	60
6D( )20-2500( )	20	41.66*	34.6	24.08	8	68
6D( )20-3000( )	20	50.00*	34.6	28.88	9	78
6D( )28-200( )	28	2.38	48.5	1.37	1	14
6D( )28-450( )	28	5.36	48.5	3.09	2	20
6D( )28-650( )	28	7.74	48.5	4.47	3	28
6D( )28-850( )	28	10.10	48.5	5.83	4	39
6D( )28-1100( )	28	13.10	48.5	7.56	5	48
6D( )28-1500( )	28	17.90	48.5	10.30	6	58
6D( )28-2000( )	28	23.81	48.5	13.75	7	60
6D( )28-2500( )	28	29.76	48.5	17.18	8	68
6D( )28-3000( )	28	35.71*	48.5	20.62	9	78
6D( )48-200( )	48	1.39	83.1	.80	1	14
6D( )48-450( )	48	3.13	83.1	1.81	2	20
6D( )48-650( )	48	4.51	83.1	2.61	3	28
6D( )48-850( )	48	5.90	83.1	3.41	4	39
6D( )48-1100( )	48	7.64	83.1	4.41	5	48
6D( )48-1500( )	48	10.40	83.1	6.02	6	58
6D( )48-2000( )	48	13.89	83.1	8.02	7	60
6D( )48-2500( )	48	17.36	83.1	10.03	8	68
6D( )48-3000( )	48	20.83	83.1	12.03	9	78
6D( )115-200( )	115	0.58	200.0	.34	1	14
6D( )115-450( )	115	1.30	200.0	.75	2	20
6D( )115-650( )	115	1.88	200.0	1.09	3	28
6D( )115-850( )	115	2.46	200.0	1.42	4	39
6D( )115-1100( )	115	3.19	200.0	1.84	5	48
6D( )115-1500( )	115	4.35	200.0	2.51	6	58
6D( )115-2000( )	115	5.80	200.0	3.33	7	60
6D( )115-2500( )	115	7.25	200.0	4.18	8	68
6D( )115-3000( )	115	8.70	200.0	5.00	9	78

\* See Catalog Page



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