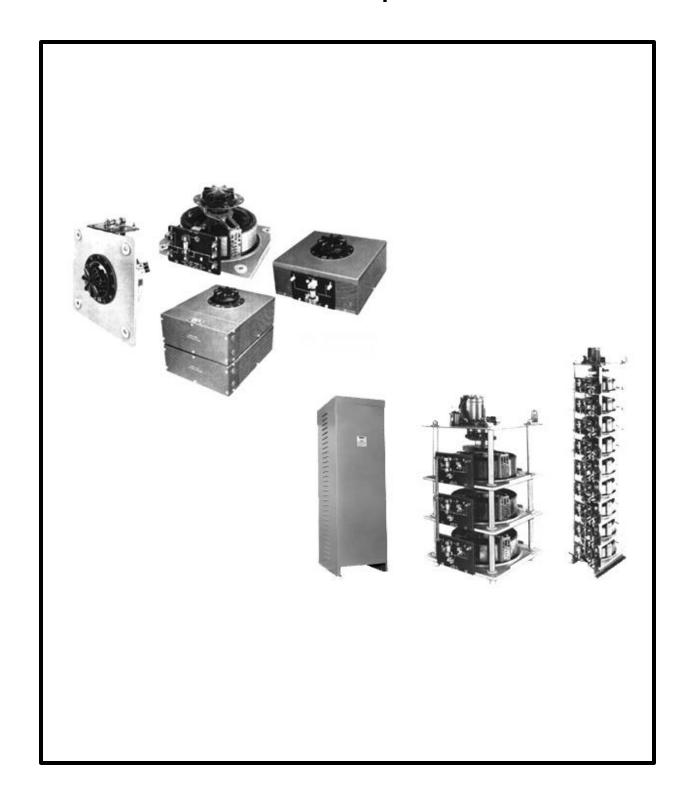


# Variable Transformers Series 5000 • 28.0 to 252.0 Amperes



## 5000 Series

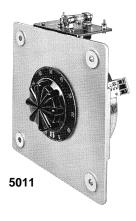
The 5011/5021 Series Variable transformers are designed to control large KVA requirements. The 5011 operates on 120 volts and is rated for constant current of 50 amperes. The 5021 operates on 240 volts and constant current of 28 amperes. The 5011 Series units have coil tapping arrangements allowing output voltage from 0-117% of line voltage, while the 5021 Series allows output voltage from 0 to line voltage or 17% above line voltage. They can be operated at frequencies between 50 and 400 Hertz with a rating at higher than rated frequency.

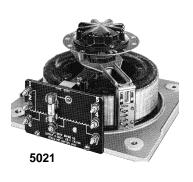
Adjustable shaft design on manually operated models permits back-of-panel or bench mounting. Terminals are 1/4" screw type. For single and two ganged units, case styles are available in either "C" style, which encloses only the coil, or the "CT" style,

which provides protective housing for both the coil and terminal board. Knockouts are provided in the terminal board housing to accommodate conduit or cable connections. For three ganged and above, we offer our Nema 1, dripproof, fully front accessible "E" enclosure.

Motor-driven models are available from single thru 27 ganged assemblies; cased or uncased (identified with the prefix "M" in the part number). The synchronous motor is designed for operation on 120 volt, 50/60 Hertz, single phase lines and draws approximately 0.3 amperes. To meet a wide range of application requirements, standard motor speeds of 5, 15, 30 and 60 seconds are available depending upon the size of the variable transformer.

PART NUMBER			INPUT		ОИТРИТ			SHAFT ROTATION	TERMINAL CONNECTIONS For Increasing Voltage As Viewed from Rotor End		20115	NET WEIGHT IN LBS.	
MANUALLY OPERATED	MOTOR DRIVEN	WIRING	VOLTS	HERTZ	VOLTS	MAX AMPS	MAX KVA	FOR VOLTAGE INCREASE	INPUT	OUTPUT	SCHE- MATIC (Pg 8 & 9)	MAN- UAL	MOTOR DRIVEN
5011 5011C 5011CT	M5011 M5011C M5011CT	Single Phase	120	50/60	0-140	50	7.0	CW	1-2	1-3	18	57	78
5021 5021C 5021CT	M5021 M5021C M5021CT	Single Phase	240	50/60	0-240	28	6.7	CW	2-4 4-2	2-3 4-3	19	57	78
					0-280	28	7.8	CCW	2-5 4-1	2-3 4-3			
			120	50/60	0-280	28*-12 VD	3.4‡	CW	2-6 4-7	2-3 4-3			
5011-2D 5011C-2D 5011CT-2D	M5011-2D M5011C-2D M5011CT-2D	Three Phase Open Delta	120	50/60	0-140	50	12.1	CW	2-1-2	3-1-3	20 & 5	134	155
5011-2P 5011C-2P 5011CT-2P	M5011-2P M5011C-2P M5011CT-2P	Single Phase Parallel	120	50/60	0-140	100	14.0	CW	1-2	1-B	21	136	157
5011-2S 5011C-2S 5011CT-2S	M5011-2S M5011C-2S M5011CT-2S	Single Phase Series	240	50/60	0-280	50	14.0	CW	2-2	3-3	20 & 4	134	155
5021-2D	5021-2D M5021-2D	Three	240	50/60	0-240 0-280	28 28	11.6 13.6	CW CW	4-1-4 2-1-2	3-1-3 3-1-3			
5021C-2D M5021C-2D 5021CT-2D M5021CT-2D	Phase Open Delta	120	50/60	0-280	28*-12 V.D.	5.8‡	CW	5-1-5	3-1-3	20 & 5	134	155	
5021-2P	M5021-2P M5021C-2P M5021CT-2P	Single Phase Parallel	240	50/60	0-240 0-280	56 56	13.4 15.7	CW CW	1-4 1-2	1-B 1-B	- 21	136	157
5021C-2P 5021CT-2P			120	50/60	0-280	56*-24 V.D.	6.8‡	CW	1-5	1-B			
5021-2S 5021C-2S 5021CT-2S	M5021-2S M5021C-2S M5021CT-2S	Single Phase Series	480	50/60	0-480 0-560	28 28	13.5 15.7	CW CW	4-4 2-2	3-3 3-3	20 & 4	134	155
			240	50/60	0-560	28*-12 V.D.	6.8‡	CW	5-5	3-3			
5011-3P 5011E-3P	M5011-3P M5011E-3P	Single Phase Parallel	120	50/60	0-140	150	21.0	CW	1-2	1-D	22	216	237
5011-3Y 5011E-3Y	M5011-3Y M5011E-3Y	Three Phase Wye	240	60	0-280	50	24.2	CW	2-2-2	3-3-3	20 & 6	212	233





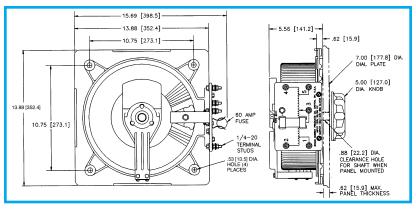




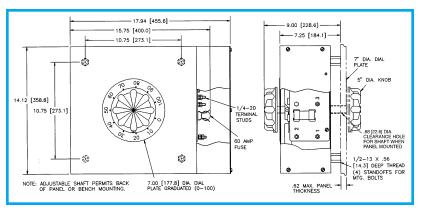
5011C

PART NUMBER			INPUT		OUTPUT			SHAFT ROTATION	TERMINAL CONNECTIONS For Increasing Voltage			NET WEIGHT IN LBS.	
MANUALLY OPERATED	MOTOR DRIVEN	WIRING	VOLTS	HERTZ	VOLTS	MAX AMPS	MAX KVA	FOR VOLTAGE INCREASE	As Viewed	from Rotor End	SCHE- MATIC (Pg 8 & 9)	MAN-	MOTOR
01 210 11 25	DittivEnt					7	11171	III OKE / IOE		551151	(, 90 0.0)	UAL	DRIVEN
	MEGGA OD	Three	240	50/60	0-240	84	34.9	CW	4-1-4	D-1-D	.		
	M5021-6D M5021E-6D	Phase Open Delta	120	50/60	0-280 0-280	84 84*-36	40.7 17.6‡	CW	2-1-2 5-1-5	D-1-D D-1-D	22 & 5	481	502
			120	50/60		V. D.							
5021-6P	M5021-6P	Single Phase Parallel	240	50/60	0-240 0-280	168 168	40.3 47.0	CW CW	1-4 1-2	1-D 1-D	22	483	504
	M5021E-6P		120	50/60	0-280	168*-72 V. D.	20.4‡	CW	1-5	1-D			
	Single	480	50/60	0-480	84	40.3	CW	4-4	D-D				
	M5021-6PS M5021E-6PS	Phase Series Parallel			0-560	84 84*-36	47.0	CW	2-2	D-D	22 & 4	481	502
			240	50/60	0-560	V. D.	20.4‡	CW	5-5	D-D			
5021-6Y	M5021-6Y M5021E-6Y	Three Phase Wye	480	50/60 60	0-480 0-560	56 56	46.6 54.3	CW CW	4-4-4 2-2-2	B-B-B B-B-B	21 & 6	479	500
5021E-6Y			240	60	0-560	56*-24 V. D.	23.5‡	CW	5-5-5	B-B-B			
5011-7P	ME044 7D	Single											
5011E-7P	M5011-7P M5011E-7P	Phase Parallel	120	50/60	0-140	350	49.0	CW	1-2	1-D	22	563	584
		Single	240	50/60	0-240	196	47.0	CW	1-4	1-D			
5021-7P 5021E-7P	M5021-7P M5021E-7P	Phase			0-280	196 196*-84	54.9	CW	1-2	1-D	22	563	584
		Parallel	120	50/60	0-280	V. D.	23.5‡	CW	1-5	1-D			
5011-8D	M5011-8D	Three Phase	120	50/60	0-140	200	48.4	CW	2-1-2	D-1-D	22 & 5	640 642	661
5011E-8D	M5011E-8D	Open Delta						-					
5011-8P	M5011-8P	Single Phase	120	50/60	0-140	400	56.0	CW	1-2	1-D			
5011E-8P	M5011E-8P	Parallel											
5011-8PS M5011-8PS 5011E-8PS M5011E-8PS	M5011-8PS	Single Phase Series Parallel	240	50/60	0-280	200	56.0	CW	2-2	D-D	22 & 4	640	661
	M5011E-8PS		240	30/60	0-200	200	30.0	CVV	2-2	U-U			661
		Three	240	50/60	0-240	112	46.6	CW	4-1-4	D-1-D			
	M5021-8D M5021E-8D	Phase Open Delta			0-280	112 112*-48	54.3	CW	2-1-2	D-1-D	22 & 5	640	661
	MIGGETE OF		120	50/60	0-280	V. D.	23.3‡	CW	5-1-5	D-1-D			
	M5021-8P	Single Phase Parallel	240	50/60	0-240 0-280	224 224	53.8 62.7	CW CW	1-4 1-2	1-D 1-D	22	642	663
	M5021E-8P		120	50/60	0-280	224*-96	26.9‡	CW	1-5	1-D			
		Single	400	50/00	0-480	V. D. 112	53.8	CW	4-4	D-D			
5021-8PS 5021E-8PS	M5021-8PS M5021E-8PS	Phase Series Parallel	480	50/60	0-560	112 112*-48	62.7	CW	2-2	D-D	22 & 4	640	742
			240	50/60	0-560	V. D.	26.9‡	CW	5-5	D-D			
5011-9P	M5011-9P	Single Phase	120	50/60	0-140	450	63.0	CW	1-2	1-D	22	721	742
5011E-9P	M5011E-9P	Parallel	120	30/00	0-140	450	05.0	CVV	1-2	1-0	22	721	142
5011-9Y	M5011-9Y	Three Phase	240	60	0-280	150	72.5	CW	2-2-2	D-D-D	22 & 6	717	738
5011E-9Y M5011E-9Y	Wye	240	00							22 00			
5021-9P 5021E-9P	M5021-9P M5021E-9P	Single Phase Parallel	240	50/60	0-240 0-280	252 252	60.5 70.6	CW	1-4 1-2	1-D 1-D	22	721	
			120	50/60	0-280	252*-108	30.2‡	CW	1-5	1-D			742
				50/60	0-480	V. D. 84	69.8	CW	4-4-4	D-D-D			
5021-9Y 5021E-9Y	M5021-9Y M5021E-9Y	Three Phase Wye	480	60	0-560	84 84*-36	81.5	CW	2-2-2	D-D-D	22 & 6	717	738
			240	60	0-560	84"-36 V. D.	35.0‡	CW	5-5-5	D-D-D			
_	M5011-10D	Open Delta	120	50/60	0-140	250	60.6	CW	2-1-2	D-1-D	22 & 5		812
	M5011E-10D		120	30/00	0-140	200	00.0	OVV	2-1-2	D-1-D			012
_	M5011-10PS M5011E-10PS	S Series				955					22 & 4		
			240	50/60	0-280	250	70.0	CW	2-2	D-D			812
		Parallel	040	F0/00	0-240	140	58.2	CW	4-1-4	D-1-D			
	M5021-10D		240	50/60	0-280	140	67.9	CW	2-1-2	D-1-D	22 & 5		812
_	M5021E-10D	Phase				140*-60		CW					

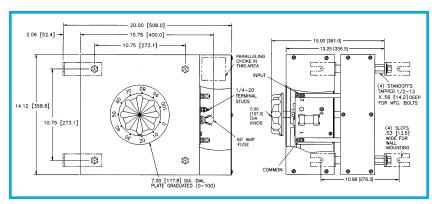
# 5000/6000 Series



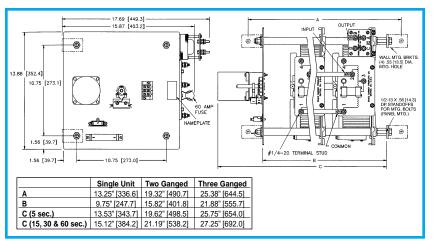
#### Manual Single, Uncased



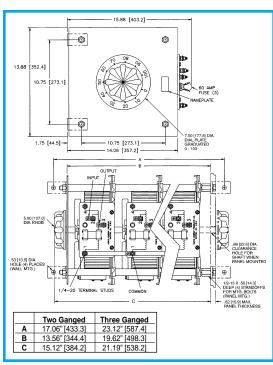
## Manual Single, Cased



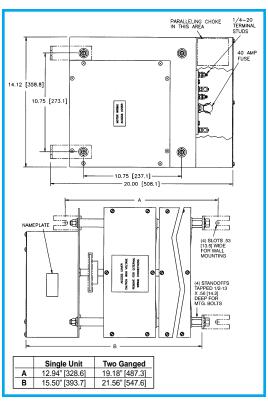
#### Manual Two-Ganged, Cased



Motor Driven, Single, Two and Three-Ganged, Uncased

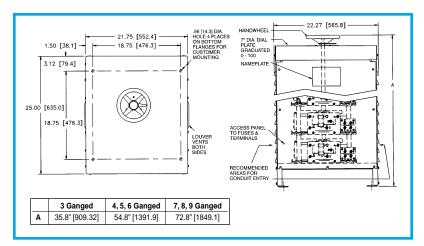


#### Manual Two and Three-Ganged, Uncased

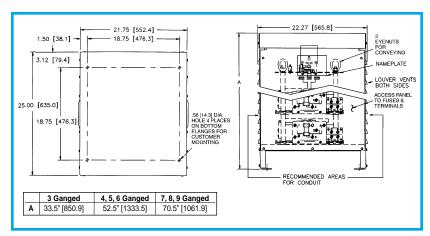


Motor Driven, Single and Two-Ganged, Cased

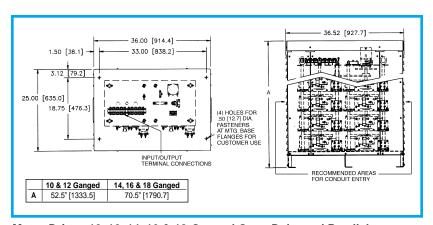
# 5000/6000 Series



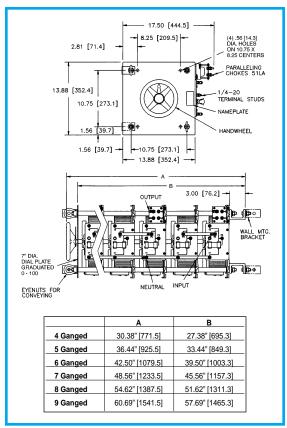
## Manual Three to Nine-Ganged, Cased



#### Motor-Driven Three to Nine-Ganged, Cased



Motor-Driven 10, 12, 14, 16 & 18-Ganged Open Delta and Parallel, Cased



Manual Four to Nine-Ganged, Uncased



