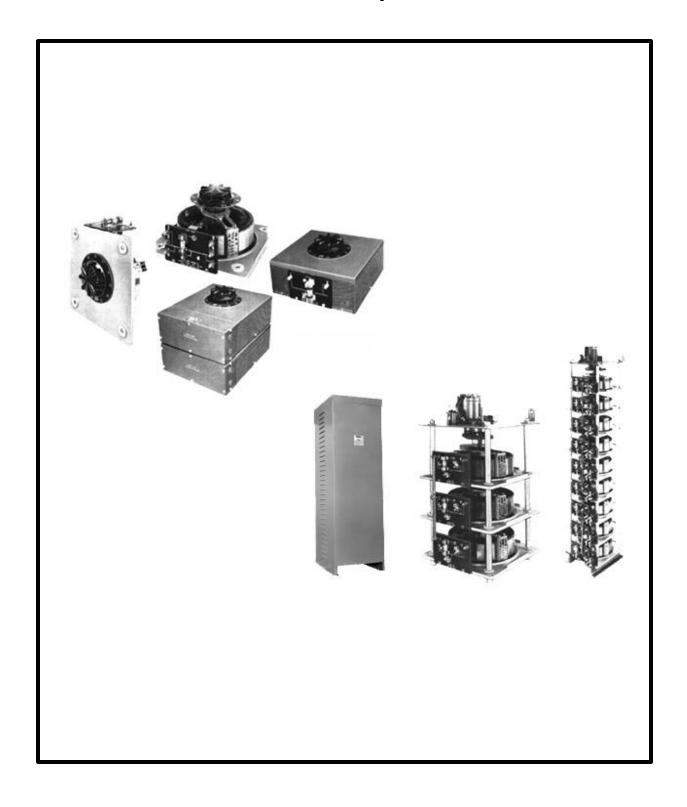


Variable Transformers Series 5000 • 28.0 to 252.0 Amperes



5000 Series

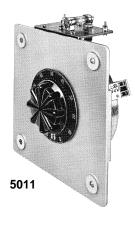
The 5011/5021 Series Variable transformers are designed to control large KVA requirements. The 5011 operates on 120 volts and is rated for constant current of 50 amperes. The 5021 operates on 240 volts and constant current of 28 amperes. The 5011 Series units have coil tapping arrangements allowing output 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.

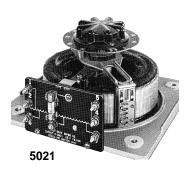
Adjustable shaft design on manually operated models permits back-of-panel or bench mounting. Terminals are 1/4" screw type. For single and two ganged units, case styles are available in either "C" style, which encloses only the coil, or the "CT" style,

which provides protective housing for both the coil and terminal board. Knockouts are provided in the terminal board housing to accomodate 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	For Incr	CONNECTIONS easing Voltage		NET WEIGHT IN LBS.	
MANUALLY OPERATED	MOTOR DRIVEN	WIRING	VOLTS	HERTZ	VOLTS	MAX AMPS	MAX KVA	FOR VOLTAGE INCREASE	As Viewed INPUT	from Rotor End 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
5004	MEGGA				0-240	28	6.7	CW					
5021 5021C	M5021 M5021C	Single Phase	240	50/60	0-280	28	7.8	CW CCW	2-5 4-1	2-3 4-3	19	57	78
5021CT	M5021CT	Tilase	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	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	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 5021CT-2D	M5021C-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	Single	240	50/60	0-240 0-280	56 56	13.4 15.7	CW CW	1-4 1-2	1-B 1-B			
5021C-2P 5021CT-2P	M5021C-2P M5021CT-2P	Phase Parallel	120	50/60	0-280	56*-24 V.D.	6.8‡	CW	1-5	1-B	21	136	157
5021-2S	M5021-2S	Single	480	50/60	0-480 0-560	28 28	13.5 15.7	CW	4-4 2-2	3-3 3-3			
5021C-2S 5021CT-2S	M5021C-2S M5021CT-2S	Phase Series	240	50/60	0-560	28*-12 V.D.	6.8‡	CW	5-5	3-3	20 & 4	134	155
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





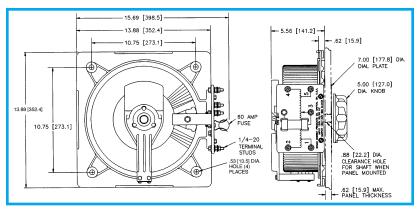




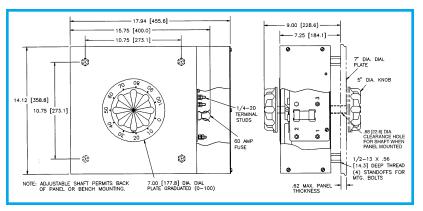
5011C

PART NUMBER		Марило	INPUT		OUTPUT			SHAFT ROTATION	For Incr	. CONNECTIONS easing Voltage		NET WEIGHT IN LBS.	
MANUALLY OPERATED	MOTOR DRIVEN	WIRING	VOLTS	HERTZ	VOLTS	TS MAX	MAX KVA	FOR VOLTAGE INCREASE	As Viewed	from Rotor End OUTPUT	SCHE- MATIC (Pg 8 & 9)	MAN- UAL	MOTOR DRIVEN
					0-240	84	34.9	CW	4-1-4	D-1-D			
5021-6D 5021E-6D	M5021-6D	Three Phase	240	50/60	0-280	84	40.7	ČW	2-1-2	D-1-D	22 & 5	481	502
	M5021E-6D	Open Delta	120	50/60	0-280	84*-36 V. D.	17.6‡	CW	5-1-5	D-1-D	22 00	401	302
5021-6P 5021E-6P		Single	240	50/60	0-240	168	40.3	CW	1-4	1-D		483	
	M5021-6P M5021E-6P	Phase Parallel	120	50/60	0-280 0-280	168 168*-72	47.0 20.4‡	CW	1-2 1-5	1-D 1-D	22		504
		Single			0-200	V. D. 84	40.3	CW	4-4	D-D			
5021-6PS	M5021-6PS	Phase	480	50/60	0-460	84	47.0	CW	2-2	D-D	22 & 4	481	502
5021E-6PS	M5021E-6PS	Series Parallel	240	50/60	0-560	84*-36 V. D.	20.4‡	CW	5-5	D-D		101	002
5004.0\/	MEGG4 GV	Three	480	50/60	0-480	56	46.6	CW	4-4-4	B-B-B			
5021-6Y 5021E-6Y	M5021-6Y M5021E-6Y	Phase Wye	240	60	0-560 0-560	56 56*-24	54.3 23.5‡	CW	2-2-2	B-B-B	21 & 6	479	500
			240	60	0-300	V. D.	23.34	CW	5-5-5	B-B-B			
5011-7P 5011E-7P	M5011-7P M5011E-7P	Single Phase Parallel	120	50/60	0-140	350	49.0	CW	1-2	1-D	22	563	584
5021-7P	M5021-7P	Single	240	50/60	0-240 0-280	196 196	47.0 54.9	CW	1-4 1-2	1-D 1-D		563	
5021E-7P	M5021E-7P	Phase Parallel	120	50/60	0-280	196*-84	23.5‡	CW	1-5	1-D	22		584
5011-8D 5011E-8D	M5011-8D M5011E-8D	Three Phase	120	50/60	0-140	V. D. 200	48.4	CW	2-1-2	D-1-D	22 & 5	640	661
5011-8P 5011E-8P	M5011-8P M5011E-8P	Open Delta Single Phase Parallel	120	50/60	0-140	400	56.0	CW	1-2	1-D	22	642	663
5011-8PS 5011E-8PS	M5011-8PS M5011E-8PS	Single Phase Series Parallel	240	50/60	0-280	200	56.0	CW	2-2	D-D	22 & 4	640	661
5021-8D 5021E-8D	M5021-8D M5021E-8D	Three Phase Open Delta	240	50/60	0-240 0-280	112 112	46.6 54.3	CW	4-1-4 2-1-2	D-1-D D-1-D			
			120	50/60	0-280	112*-48	23.3‡	CW	5-1-5	D-1-D D-1-D	22 & 5	640	661
			_		0-240	V. D. 224	53.8	CW	1-4	1-D			
5021-8P	M5021-8P	Single Phase	240	50/60	0-280	224	62.7	CW	1-2	1-D	22	642	663
5021E-8P	M5021E-8P	Parallel	120	50/60	0-280	224*-96 V. D.	26.9‡	CW	1-5	1-D			
5021-8PS	M5021-8PS	Single Phase	480	50/60	0-480 0-560	112 112	53.8 62.7	CW	4-4 2-2	D-D D-D			
5021E-8PS	M5021E-8PS	Series	240	50/60	0-560	112*-48	26.9‡	CW	5-5	D-D	22 & 4	640	742
5011-9P 5011E-9P	M5011-9P M5011E-9P	Parallel Single Phase	120	50/60	0-140	V. D. 450	63.0	CW	1-2	1-D	22	721	742
		Parallel Three											
5011-9Y 5011E-9Y	M5011-9Y M5011E-9Y	Phase Wye	240	60	0-280	150	72.5	CW	2-2-2	D-D-D	22 & 6	717	738
5021-9P	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	_		
5021E-9P			120	50/60	0-280	252*-108 V. D.		CW	1-5	1-D	22	721	742
5021-9Y 5021E-9Y				50/60	0-480	V. D. 84	69.8	CW	4-4-4	D-D-D			
	M5021-9Y	IE OV Phase	480	60	0-560	84 84*-36	81.5	CW	2-2-2	D-D-D	22 & 6	717	738
	M5021E-9Y	Wye		60	0-560	V. D.	35.0‡	CW	5-5-5	D-D-D			
_	M5011-10D M5011E-10D	Three Phase Open Delta	120	50/60	0-140	250	60.6	CW	2-1-2	D-1-D	22 & 5		812
	M5011-10PS M5011E-10PS	Single Phase Series Parallel	240	50/60	0-280	250	70.0	CW	2-2	D-D	22 & 4		812
	ME004 40D	Three	240	50/60	0-240	140	58.2	CW	4-1-4	D-1-D			
_	M5021-10D M5021E-10D	Phase			0-280 0-280	140 140*-60	67.9 29.1‡	CW	2-1-2 5-1-5	D-1-D D-1-D	22 & 5		812
		Open Delta	120	50/60	U-20U	V. D.	29.1‡	CVV	J-1-5	ט-ו-ט	<u> </u>		

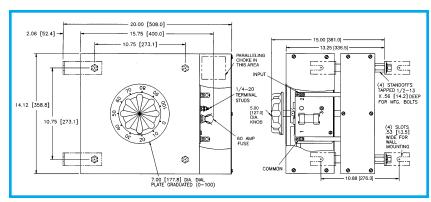
5000/6000 Series



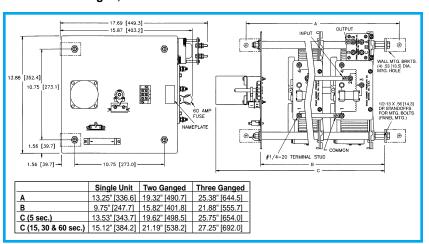
Manual Single, Uncased



Manual Single, Cased



Manual Two-Ganged, Cased



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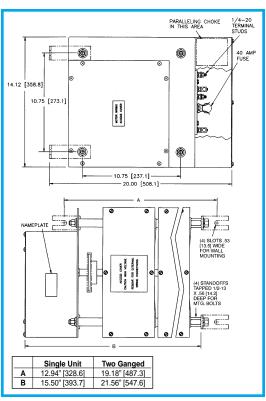
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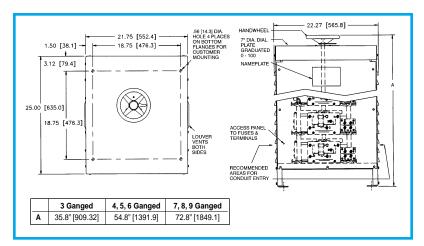
Manual Two and Three-Ganged, Uncased



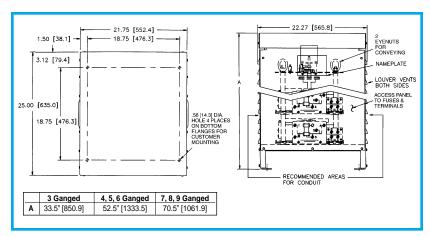
Motor Driven, Single and Two-Ganged, Cased

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

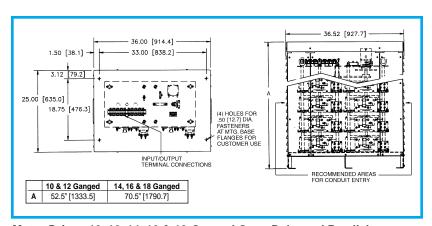
5000/6000 Series



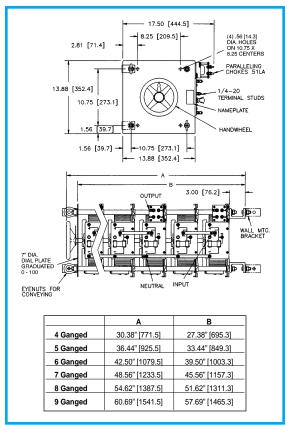
Manual Three to Nine-Ganged, Cased



Motor-Driven Three to Nine-Ganged, Cased

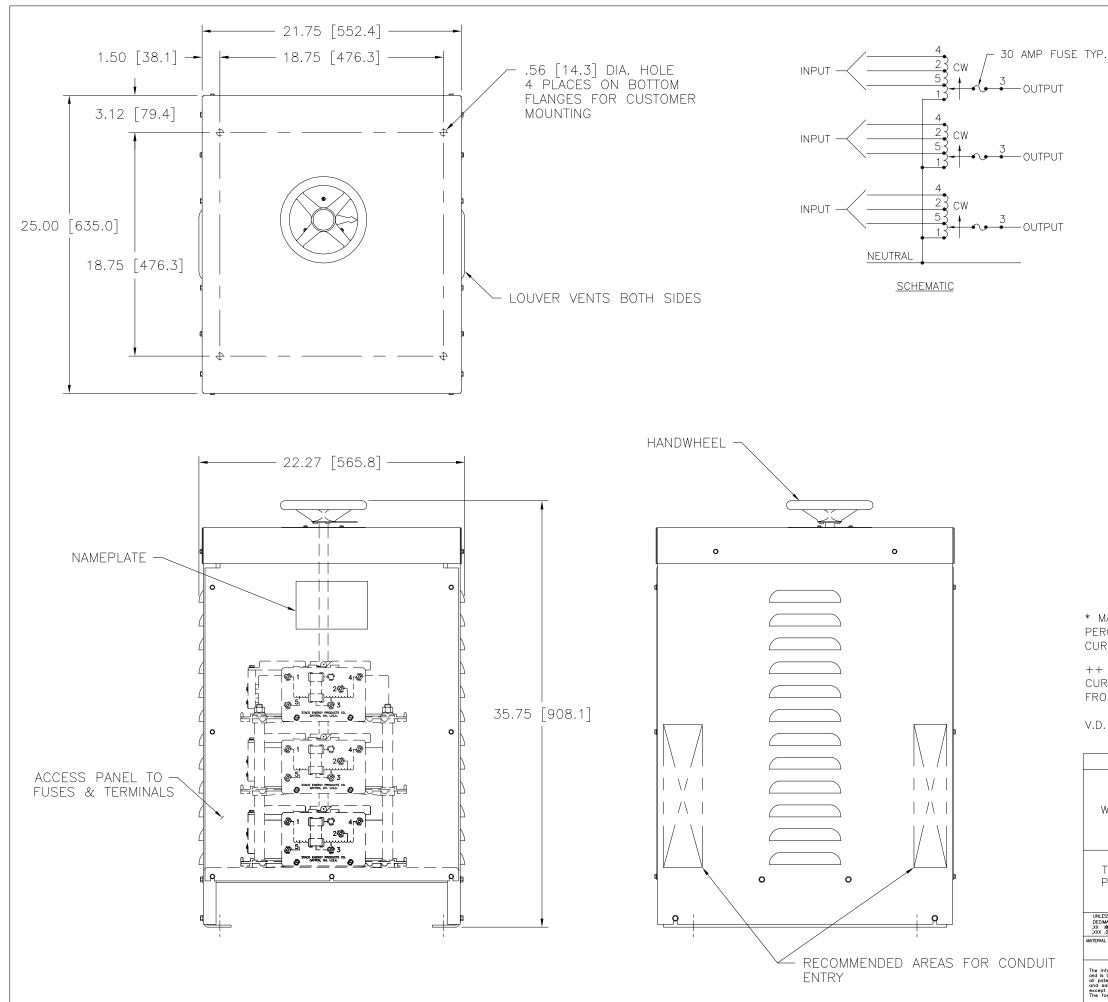


Motor-Driven 10, 12, 14, 16 & 18-Ganged Open Delta and Parallel, Cased



Manual Four to Nine-Ganged, Uncased





SYM. E.C.N. DATE APVD.

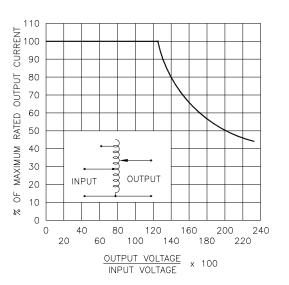


FIGURE A

MAXIMUM OUTPUT CURRENT OF ANY DUAL INPUT VOLTAGE OR VOLTAGE DOUBLER UNIT OPERATED AT LOWER INPUT VOLTAGE.

- * MAXIMUM OUTPUT CURRENT IN OUTPUT VOLTAGE RANGE FROM 0 TO 25 PERCENT ABOVE LINE VOLTAGE. AT HIGHER OUTPUT VOLTAGES, OUTPUT CURRENT MUST BE REDUCED ACCORDING TO RATING CURVE (SEE FIGURE A).
- ++ MAXIMUM KVA AT MAXIMUM OUTPUT AND CORRESSPONDING DE-RATED CURRENT. MAXIMUM KVA AT LOWER OUTPUT VOLTAGES MAY BE CALCULATED FROM RATING CURVE, (SEE FIGURE A).

V.D. = VOLTAGE DOUBLER.

SPECIFICATIONS																
	INPUT				OUTPUT								TERMINAL			
WIRING	VOLTS	HE	ERTZ	,	VOLTS	CONSTA CURREN LOAD			RENT		SHAFT ROTATION FOR		CONNECTI FOR INCREA VOLTAGE			
							AX. MPS		AX. WA		OLTAGE NCREASE		viewed f NPUT		TPUT	
		50/60		(0-480				3.3		CW	_	-4-4		3-3	
THREE	480			(0-560	2	28	2	7.2	CW		2	2-2-2		3-3	
PHASE WYE	240		60 (0-560	28-12 V.D.			1.8 ++		CW	5	-5-5	3-	3-3	
UNLESS OTHERWISE SPECIFIED. TOLERANCE IS ± DECIMALS HOLES ANGLES DRAFT .XX M010 1.2 10002 .03 1° 1-1/2° IN [mm] .XXX .005											RAWING			4		
MATERIAL: ALL DIMENSIONS APPLY AFTER PLATING					VARIABLE TRANSF 5021E-3Y					JKME	.R	DAYTON, OHIO U.S				
The information and design disclosed herein was originated by and is the property of STACO ENERGY PRODUCTS CO, which reserves all potent, proprietory, design, manufacturing, reproduction, use and sale rights thereto, and to any article disclosed therein the property of the property of the property of the property ports. The foregoing does not apply to vendor proprietary parts.					DRAWN BY S.A. SM	ITH			FIRST USED 50211				CUSTOMER APPROVAL DATE			
					CHECKER	DATE		WEIGHT AP		PROX. CODE IDENT. NO. 83008		DWG. NO.	7/	155		
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SCALE .25=1 SHEET 1 OF 1 D 031-7455