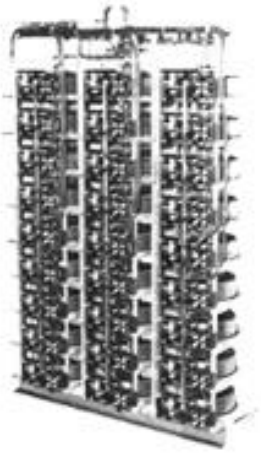
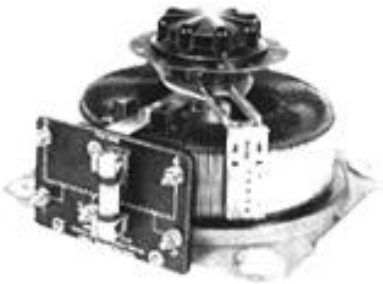
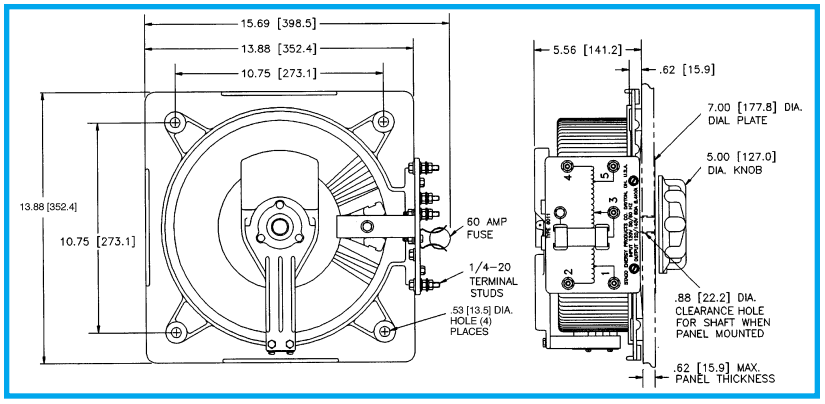
STACO
ENERGY PRODUCTS CO.

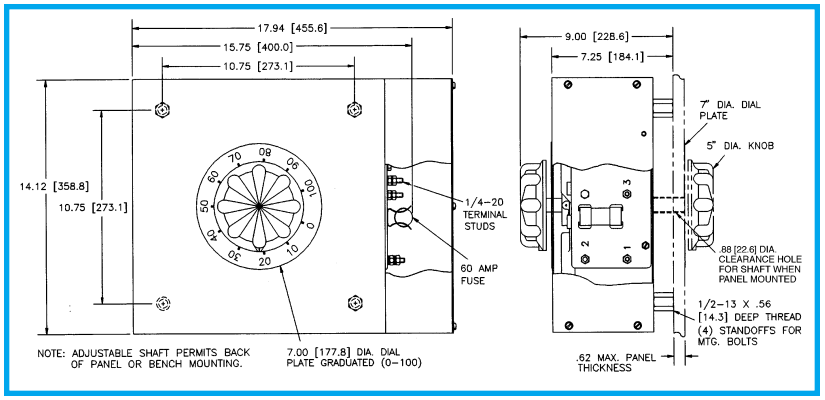
Variable Transformers
Series 6000 • 35.0 to 315.0 Amperes



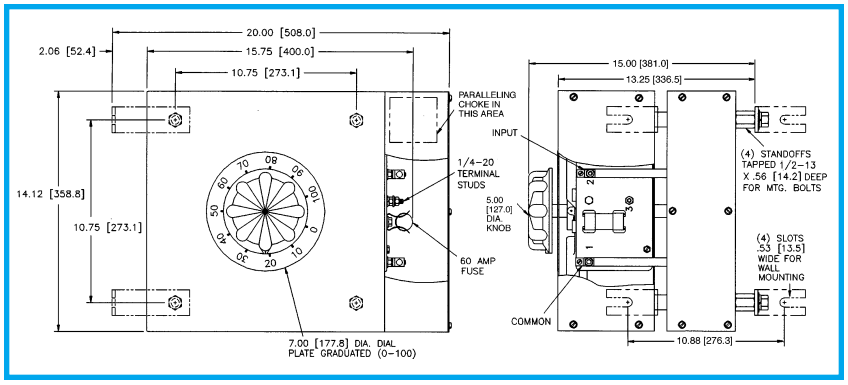




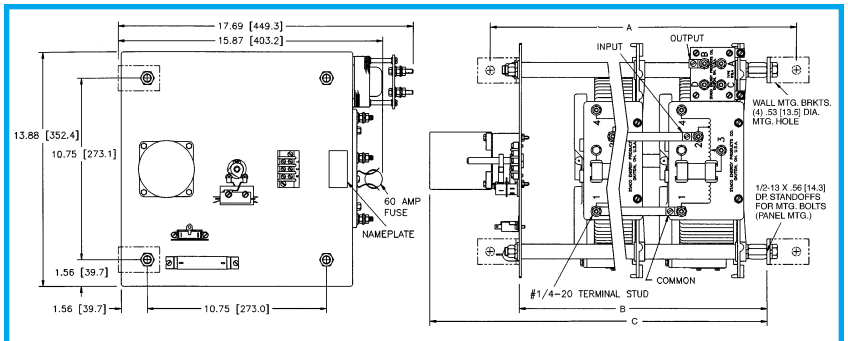
Manual Single, Uncased



Manual Single, Cased

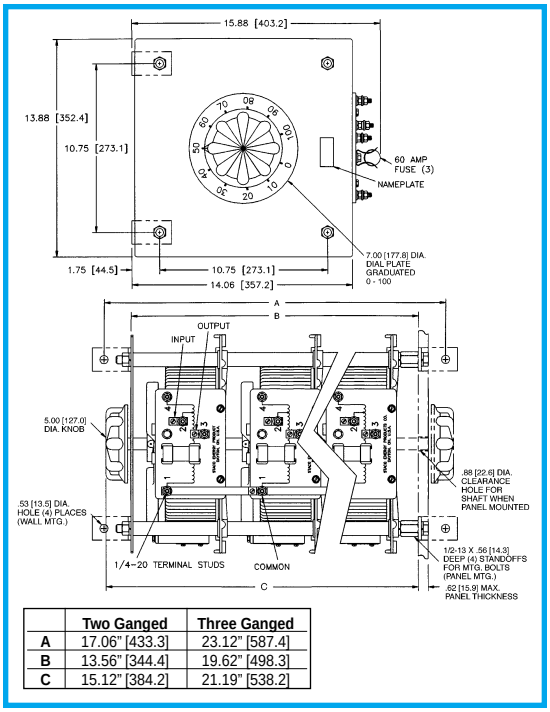


Manual Two-Ganged, Cased



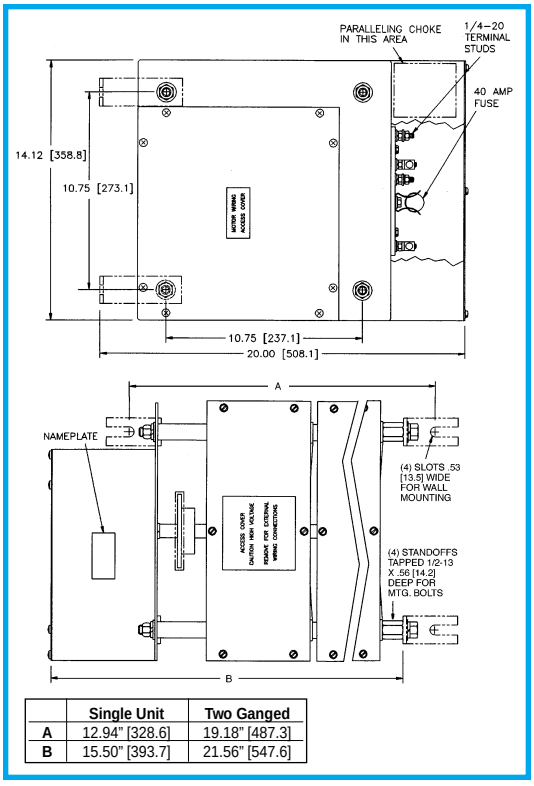
	Single Unit	Two Ganged	Three Ganged
A	13.25" [336.6]	19.32" [490.7]	25.38" [644.5]
B	9.75" [247.7]	15.82" [401.8]	21.88" [555.7]
C (5 sec.)	13.53" [343.7]	19.62" [498.5]	25.75" [654.0]
C (15, 30 & 60 sec.)	15.12" [384.2]	21.19" [538.2]	27.25" [692.0]

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



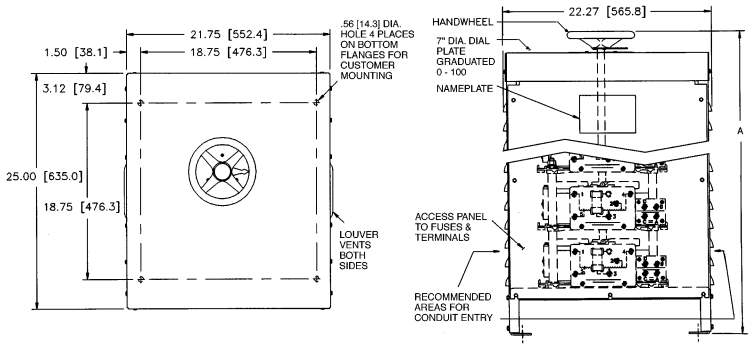
	Two Ganged	Three Ganged
A	17.06" [433.3]	23.12" [587.4]
B	13.56" [344.4]	19.62" [498.3]
C	15.12" [384.2]	21.19" [538.2]

Manual Two and Three-Ganged, Uncased



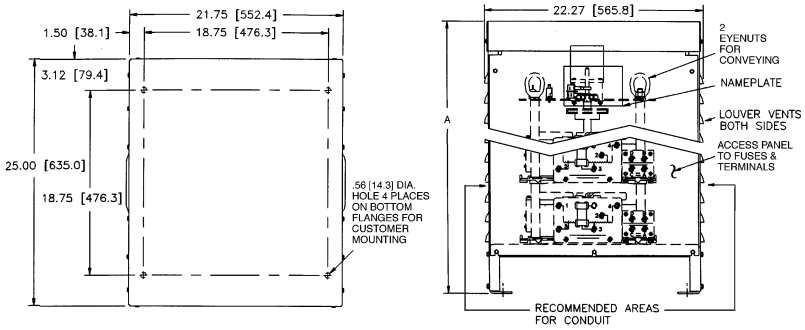
	Single Unit	Two Ganged
A	12.94" [328.6]	19.18" [487.3]
B	15.50" [393.7]	21.56" [547.6]

Motor Driven, Single and Two-Ganged, Cased



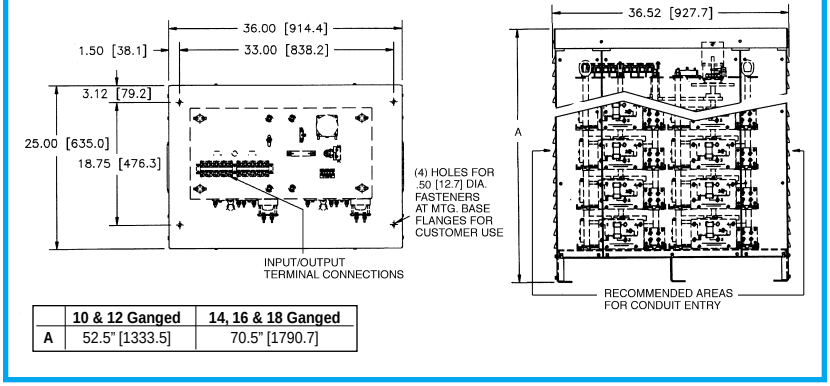
	3 Ganged	4, 5, 6 Ganged	7, 8, 9 Ganged
A	35.8" [909.32]	54.8" [1391.9]	72.8" [1849.1]

Manual Three to Nine-Ganged, Cased



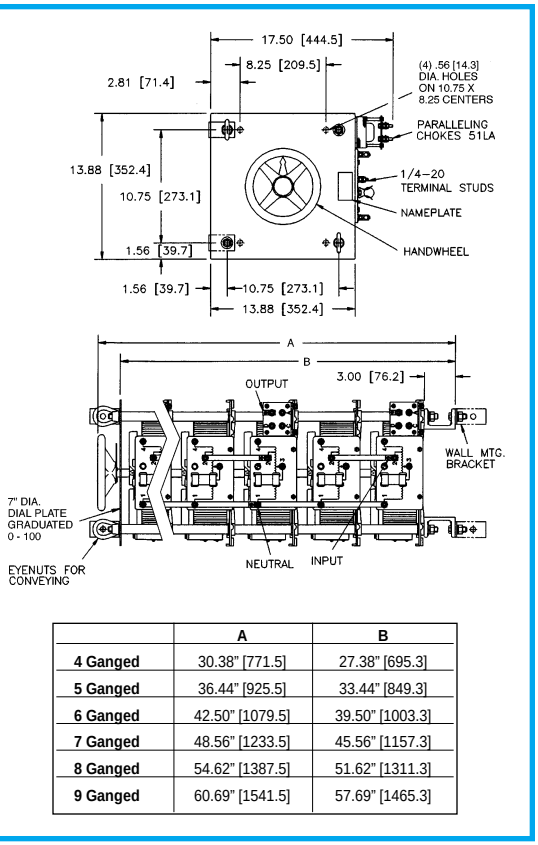
	3 Ganged	4, 5, 6 Ganged	7, 8, 9 Ganged
A	33.5" [850.9]	52.5" [1333.5]	70.5" [1061.9]

Motor-Driven Three to Nine-Ganged, Cased



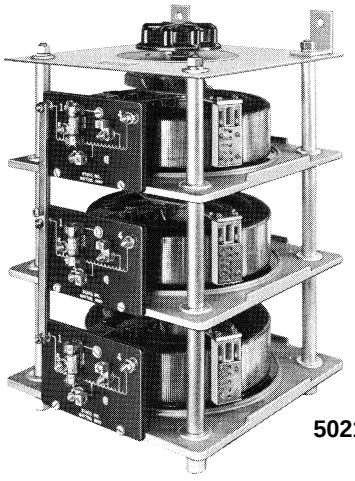
	10 & 12 Ganged	14, 16 & 18 Ganged
A	52.5" [1333.5]	70.5" [1790.7]

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



	A	B
4 Ganged	30.38" [771.5]	27.38" [695.3]
5 Ganged	36.44" [925.5]	33.44" [849.3]
6 Ganged	42.50" [1079.5]	39.50" [1003.3]
7 Ganged	48.56" [1233.5]	45.56" [1157.3]
8 Ganged	54.62" [1387.5]	51.62" [1311.3]
9 Ganged	60.69" [1541.5]	57.69" [1465.3]

Manual Four to Nine-Ganged, Uncased



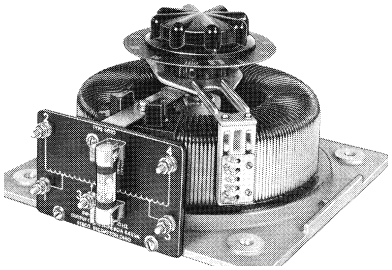
5021-3Y

Variable transformers of the 6011/6020 Series are designed for larger KVA requirements. The 6011, 120 volt unit is rated for constant current of 60 amperes. The 6020, 240 volt unit is rated at 35 amperes for constant current loads. All single units have coil tapping arrangements allowing output voltage from 0 to line voltage or 17% above line voltage.

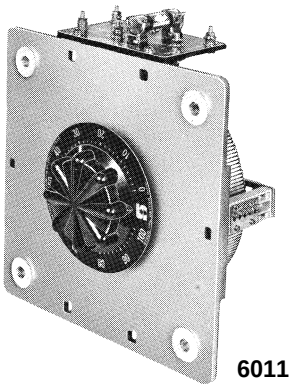
Adjustable shaft design on manually operated models permits back-of-panel or bench mounting. Terminals are 1/4" screw type. For single and two ganged units, case styles are available in either "C" style, which encloses only the coil, or the "CT" style, which provides protective housing for both the coil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

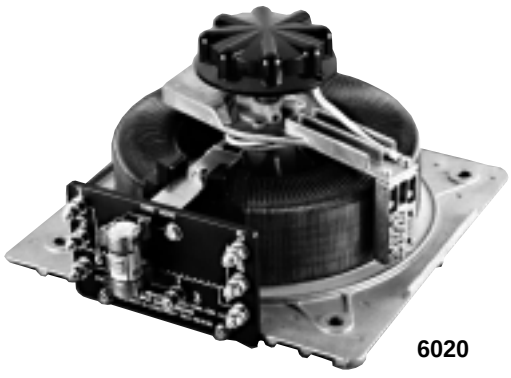
PART NUMBER		WIRING	INPUT		OUTPUT			SHAFT ROTATION FOR VOLTAGE INCREASE	TERMINAL CONNECTIONS For Increasing Voltage As Viewed from Rotor End		SCHE-MATIC (Pg 8 & 9)	NET WEIGHT IN LBS. (MAX)	
MANUALLY OPERATED	MOTOR DRIVEN		VOLTS	HERTZ	VOLTS	MAX AMPS	MAX KVA		INPUT	OUTPUT		MAN-UAL	MOTOR DRIVEN
6011 6011C 6011CT	M6011 M6011C M6011CT	Single Phase	120	50/60	0-120	60	7.2	CW	2-4	2-3	19	67	88
								CCW	4-2	4-3			
					0-140	60	8.4	CW	2-5	2-3			
								CCW	4-1	4-3			
6020 6020C 6020CT	M6020 M6020C M6020CT	Single Phase	240	50/60	0-240	35	8.4	CW	2-4	2-3	19	63	84
								CCW	4-2	4-3			
					0-280	35	9.8	CW	2-5	2-3			
								CCW	4-1	4-3			
			120	50/60	0-280	35*-15 V. D.	4.2‡	CW	2-6	2-3			
								CCW	4-7	4-3			
6011-2D 6011C-2D 6011CT-2D	M6011-2D M6011C-2D M6011CT-2D	Three Phase Open Delta	120	50/60	0-120	60	12.5	CW	4-1-4	3-1-3	20 & 5	154	175
					0-140	60	14.5	CW	2-1-2	3-1-3			
6011-2P 6011C-2P 6011CT-2P	M6011-2P M6011C-2P M6011CT-2P	Single Phase Parallel	120	50/60	0-120	120	14.4	CW	1-4	1-B	21	156	177
					0-140	120	16.8	CW	1-2	1-B			
6011-2S 6011C-2S 6011CT-2S	M6011-2S M6011C-2S M6011CT-2S	Single Phase Series	240	50/60	0-240	60	14.4	CW	4-4	3-3	20 & 4	154	175
					0-280	60	16.8	CW	2-2	3-3			
6020-2D 6020C-2D 6020CT-2D	M6020-2D M6020C-2D M6020CT-2D	Three Phase Open Delta	240	50/60	0-240	35	14.5	CW	4-1-4	3-1-3	20 & 5	146	167
					0-280	35	16.9	CW	2-1-2	3-1-3			
			120	50/60	0-280	35*-15 V. D.	7.3‡	CW	5-1-5	3-1-3			
6020-2P 6020C-2P 6020CT-2P	M6020-2P M6020C-2P M6020CT-2P	Single Phase Parallel	240	50/60	0-240	70	16.8	CW	1-4	1-B	21	148	169
					0-280	70	19.6	CW	1-2	1-B			
			120	50/60	0-280	70*-30 V. D.	8.4‡	CW	1-5	1-B			
6020-2S 6020C-2S 6020CT-2S	M6020-2S M6020C-2S M6020CT-2S	Single Phase Series	480	50/60	0-480	35	16.8	CW	4-4	3-3	20 & 4	146	167
					0-560	35	19.6	CW	2-2	3-3			
			240	50/60	0-560	35*-15 V. D.	8.4‡	CW	5-5	3-3			
6011-3P 6011E-3P	M6011-3P M6011E-3P	Single Phase Parallel	120	50/60	0-120	180	21.6	CW	1-4	1-D	22	246	267
					0-140	180	25.2	CW	1-2	1-D			
6011-3Y 6011E-3Y	M6011-3Y M6011E-3Y	Three Phase Wye	240	60	0-240	60	24.9	CW	4-4-4	3-3-3	20 & 6	242	263
					0-280	60	29.1	CW	2-2-2	3-3-3			



6011

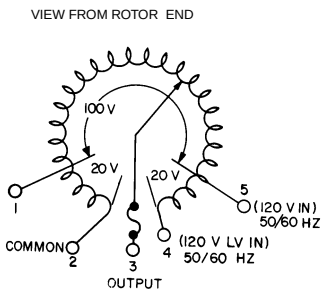


6011

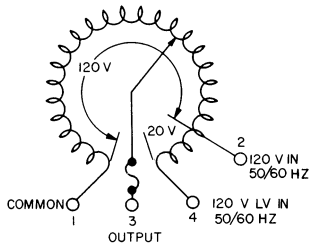


6020

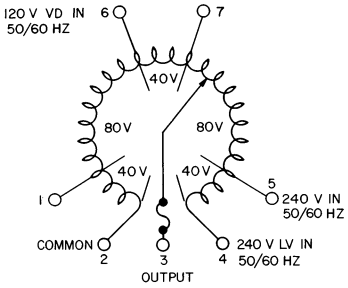
6000 Series



6011 Single Unit

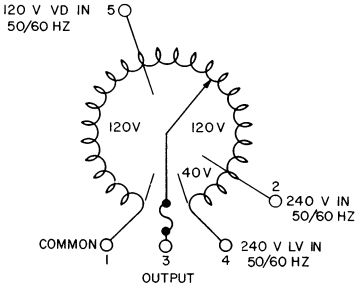


6011 Ganged Unit



For opposite rotation interchange external connections from 5 to 1, 2 to 4 and 6 to 7.

6020 Single Unit



6020 Ganged Unit

PART NUMBER		WIRING	INPUT		OUTPUT			SHAFT ROTATION FOR VOLTAGE INCREASE	TERMINAL CONNECTIONS For Increasing Voltage As Viewed from Rotor End		SCHE-MATIC (Pg 8 & 9)	NET WEIGHT IN LBS. (MAX)	
MANUALLY OPERATED	MOTOR DRIVEN		VOLTS	HERTZ	VOLTS	MAX AMPS	MAX KVA		INPUT	OUTPUT		MAN-UAL	MOTOR DRIVEN
6020-3P 6020E-3P	M6020-3P M6020E-3P	Single Phase Parallel	240	50/60	0-240	105	25.2	CW	1-4	1-D	22	246	267
					0-280	105	29.4	CW	1-2	1-D			
			120	50/60	0-280	105*-45 V. D.	12.6‡	CW	1-5	1-D			
6020-3Y 6020E-3Y	M6020-3Y M6020E-3Y	Three Phase Wye	480	50/60	0-480	35	29.1	CW	4-4-4	3-3-3	20 & 6	240	261
				60	0-560	35	33.9	CW	2-2-2	3-3-3			
			240	60	0-560	35*-15 V. D.	14.5‡	CW	5-5-5	3-3-3			
6011-4D 6011E-4D	M6011-4D M6011E-4D	Three Phase Open Delta	120	50/60	0-120	120	24.9	CW	4-1-4	B-1-B	21 & 5	354	375
					0-140	120	29.1	CW	2-1-2	B-1-B			
6011-4P 6011E-4P	M6011-4P M6011E-4P	Single Phase Parallel	120	50/60	0-120	240	28.8	CW	1-4	1-D	22	356	377
					0-140	240	33.6	CW	1-2	1-D			
6011-4PS 6011E-4PS	M6011-4PS M6011E-4PS	Single Phase Series Parallel	240	50/60	0-240	120	28.8	CW	4-4	B-B	21 & 4	354	375
					0-280	120	33.6	CW	2-2	B-B			
6020-4D 6020E-4D	M6020-4D M6020E-4D	Three Phase Open Delta	240	50/60	0-240	70	29.1	CW	4-1-4	B-1-B	21 & 5	338	359
					0-280	70	33.9	CW	2-1-2	B-1-B			
			120	50/60	0-280	70*-30 V. D.	14.5‡	CW	5-1-5	B-1-B			
6020-4P 6020E-4P	M6020-4P M6020E-4P	Single Phase Parallel	240	50/60	0-240	140	33.6	CW	1-4	1-D	22	340	361
					0-280	140	39.2	CW	1-2	1-D			
			120	50/60	0-280	140*-60 V. D.	16.8‡	CW	1-5	1-D			
6020-4PS 6020E-4PS	M6020-4PS M6020E-4PS	Single Phase Series Parallel	480	50/60	0-480	70	33.6	CW	4-4	B-B	21 & 4	338	359
					0-560	70	39.2	CW	2-2	B-B			
			240	50/60	0-560	70*-30 V. D.	16.8‡	CW	5-5	B-B			
6011-5P 6011E-5P	M6011-5P M6011E-5P	Single Phase Parallel	120	50/60	0-120	300	36.0	CW	1-4	1-D	22	450	471
					0-140	300	42.0	CW	1-2	1-D			
6020-5P 6020E-5P	M6020-5P M6020E-5P	Single Phase Parallel	240	50/60	0-240	175	42.0	CW	1-4	1-D	22	430	451
					0-280	175	49.0	CW	1-2	1-D			
			120	50/60	0-280	175*-75 V. D.	21.0‡	CW	1-5	1-D			
6011-6D 6011E-6D	M6011-6D M6011E-6D	Three Phase Open Delta	120	50/60	0-120	180	37.4	CW	4-1-4	D-1-D	22 & 5	541	562
					0-140	180	43.6	CW	2-1-2	D-1-D			
6011-6P 6011E-6P	M6011-6P M6011E-6P	Single Phase Parallel	120	50/60	0-120	360	43.2	CW	1-4	1-D	22	543	564
					0-140	360	50.4	CW	1-2	1-D			
6011-6PS 6011E-6PS	M6011-6PS M6011E-6PS	Single Phase Series Parallel	240	50/60	0-240	180	43.2	CW	4-4	D-D	22 & 4	541	562
					0-280	180	50.4	CW	2-2	D-D			
6011-6Y 6011E-6Y	M6011-6Y M6011E-6Y	Three Phase Wye	240	60	0-240	120	49.8	CW	4-4-4	B-B-B	21 & 6	539	560
					0-280	120	58.1	CW	2-2-2	B-B-B			