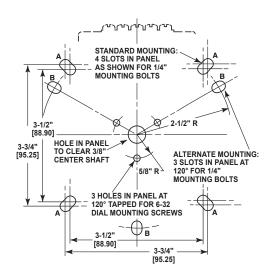
STRUC'I

for INSTALLATION **OPERATION and MAINTENANCE**

use engineering refinements on reserved. Dimensions and other lect to channe

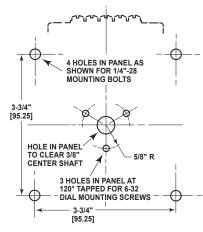
MOUNTING TEMPLATE NO. 1

NOTE: All dimensions are in inches [millimeters



MOUNTING TEMPLATE NO. 2

NOTE: All dimensions are in inches [millimete



POWERST VARIABLE TRANSFORMERS WITH POWERKOTE® COILS

116CU-40 / 116C / 117C / 216C and 217C Series

Superior Electric 28 SPRING LANE • SUITE 3 N, CT 06032 USA 585-4500, Menu # 2 585-4500, Menu # 3

electric com

INSPECTION

A POWERSTAT Variable Transformer is a precision product packed with care. When unpacking, examine carefully for any shipping damage. Inspect the trush contract with particular care. The "Damage and Shotage" Instructions packed with the unit outline the proper procedure to follow if any parts are damaged or missing.

INSTALLATION NOTE- The unit should be protected from any dust or debris that may be encountered while drilling holes, installing wiring, etc, during installation. MANUALLY OPERATED ASSEMBLIES

MANUALLY OFERATED ASSEMBLIES POWERSTAT Variable Transformer types within this Series have two sets of mounting holes to facilitate installation in new or existing layouts. Use the set that is most convenient for the application. All models are designed so that the same unit can be either bench or back-of-panel mounted as desired. The units as shipped are arranged for bench mounting. To change to back-of-panel mounting, proceed as outlined.

SINGLE UNITS Models 3PN116C, 3PN17C, 3PN216C and 3PN217C have a cord and plug input and a receptacle output, and are usually used as a portable source of variable a-cvoltage. If desired they may be mounted in the same manner as other manually operated single units.

BENCH OR WALL MOUNTING

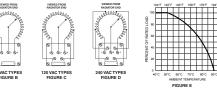
- BENCH OR WALL MOUNTING Using Dilling Template No. 1, locate and drill the desired set of mounting holes (four holes marked X or three holes marked Y). In the control of the set of the set of through the set of the insulator of the radiator and site the shaft through so it projects from the other end of the assembly. Tighten the setsecrews.
 For U types, provide a support for the dial. Mount the dial to the support Alach the know this pointer set and fasten X' mounting screws.

- Attach the knob wirn is pointer set concess management and the dial indications. In addition, on enclosed terminal ("T) types, remove the terminal cover an required conduit hole caps. Attach conduit or cable and dress the leads Make the necessary connections to the terminal cover. BACK-OF-PANEL MOUNTING

- SACK-OF-PARLE MOUNTING Using Dilling remplate No.1, locale and drill the desired set of mounting holes (four holes marked 'A' or three holes marked 'B'), the three dial mounting screw holes, and the conter shaft hole. Three dial screw holes must be tapped to accommodate the 6-32 screws supplied. Maximum panel thickness is 65¹ for open (L' type) models. : On enclosed models, remove the knob, loosen the shaft setscrews in the other and of the assembly. Tighten the setscrews. Maximum panel thickness for enclosed models is 51⁶¹.

With ordinary care, a POWERSTAT Variable Transformer should require no servicing except possible regulacement of the trush assembly. The brush should be cause the brush should be careful assembly and the structure of the Because the brush must be of a spacing material, registion only with a Superior Electric brush assembly. The assembly is designed to assure perfect contact of the brush to the commutator regardless of brush possibili and length of time in use. Take care to avoid scraping, scratching or maring the commutator surface. Follow these steps to install a new brush assembly.

- 1. Unfasten the two brush anchor screws, remove and discard the old brush
- Unfasten the two brush anchor screws, remove and discard the old brush assembly.
 Insert the new brush assembly. Be sure that the tang on the back of the brush assembly goes under the overhang at the rear of the radiator slot. Replace and lighten the brush anchor screws.
 Raise the brush and place a piece of sandpaper (grit #400 or finer) between the brush and be commutator with the abrasive side against the brush.
 While holding the sandpaper in place (flat), rotate the brush through a short car about four times. Remove the sandpaper and blow out any remaining carbon particles.
 Rotate the housh over the full radoe several times to check for smooth travel
- Rolate the brush over the full range several times to check for smooth travel and to be sure the brush fits flat to the commutator over the full range. 5



- Mount the dial on the front of the panel. Place the POWERSTAT Variable Transformer in the position behind the panel and insert and tighten %^{*}

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BENCH OR WALL MOUNTING

A. On Standoffs

- 1. Using Drilling Template No. 2, locate and drill the four mounting boles
- holes. 2. Remove the knob and dial, loosen the shaft setscrews in the insulator of each radiator and adjust the shaft so it projects from the radiator and of the assembly. Turn at of the radiators taily constructowing the radiators taily construction. The radiators taily construction alignment. 2. Place the unit in position and insert and fasten V-2.28 monting bolts into the standorfs. Maximum bolt length is the panel thickness plus 387.
- 3/8". Provide a support for the dial. Mount the dial to the support. Attach the knob with its pointer set correctly with respect to the brush location and the dial indications. 4 6

B. On Side Brackets

- 1. Using Drilling Template No. 3, locate and drill the proper set of mounting holes. 2. Insert two $\%^*$ mounting screws at one end of the assembly and screw
- Heart way.
 Place the unit in position. Insert the other ¼* screws and tighten all

- screws. BACK-OF-PANEL MOUNTING Luing Dailing Template No. 2, locate and drill the four mounting screw holes, the three dail mounting screw holes and the center shaft hole. The dial screw holes must be tapped to accommodate the 5-32 screws supplied. Maximum panel hickness is 3/4. 2. Secure the dial in place. Place the assembly in position behind the panel and insert and tighten V-28 mounting screws. Mounting screw length should be the panel thickness plus 3/6. 3. Provide a support in the form of a bench or crade for the assembly 4. Outcation and the dial indications.

MOTOR-DRIVEN ASSEMBLIES

MOTOV-DATE of Additional and a second a s

MAINTENANCE



REPLACEMENT BRUSH ASSEMBLIES								
TYPE	PART NO.	DESCRIPTION						
116CU-40	065431-004	RB116C-40						
116C / 117C	065431-001	RB116C/RB117C						

065431-002 Whenever unusual mechanical or electrical difficulties are encountered in the operation or installation of your POWERSTAT Variable Transformer, consult Superior Electric.

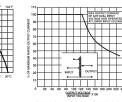
RB216C/RB217C

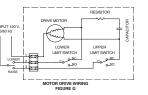
CONNECTIONS AND RATINGS

216C / 217C

- ND KAINGS For the Step Up Connections the tables show maximum output current rating for output voltages up to 125% of the input voltage, and maximum KVA at maximum output voltage. The output current must be reduced according to the curve in Figure F for output voltages greater then 125% of input voltage. Maximum KVA may be calculated using the rating curve in Figure F for voltages less then may be calculated using the rating curve in Figure F for voltages less then may be calculated using the rating curve in Figure F. Fuses are recommended on all units as shorm (6) and are supplied on 4 ampren) and 3PH217 C (8 ampren) and other models. So Figure H for recommended fuse ratings. COMMON shown in the connection diagrams is used as third leg in 3-phase open delta, or neutral in single-phase 3-wire and 3-phase 4-wire wy configurations. Jumper(s) provided in standard common position should be moved or removed as required.

- should be moved or removed as required. Cord-and-plug models 3PN116C and 3PN216C are wired in the Boost "B" Connection when shipped.





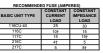


FIGURE H



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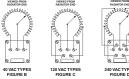
Downloaded from Elcodis.com electronic components distributor

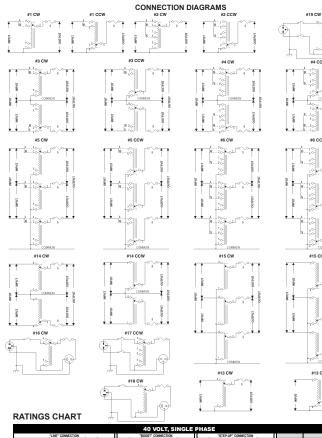
- CONNECTIONS AND PATINGS given in these instructions are those most commonly used. In addition, all ganged units may be connected so that the units operate electrically independent on a common shaft. When this is desired, connections and ratings for the individual models may be oblighted from the RATINGS CHART and CONNECTION DIAGRAMS of the single

OPERATION IN "STEP-UP" C FIGURE F



- from the PATINGS CHART and CONNECTION DIAGRAMS of the single tion in the particular of the particular of the particular of the particular included in these instructions are given in Figures B, C, and D. For ambient temperatures between -20°C and +20°C use current ratings given in the charts. Figure E shows the output current de-rating required above 50°C. The connection diagrams set labeled 1° to full characteristic of the the Clockwise (CW) and counterproductive (CCW) nation connections shown in the tables and diagrams are for motor driven units and units with the knob on the radiator end. For connections with the knob on the base end, use the shown CCW connection for CW operation, and shown CW connection for CCW operation. VIEWED FROM





#4 CCW

Shall

#6 CCW

#15 CCW

#13 CCW

TPUT

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TIPIT

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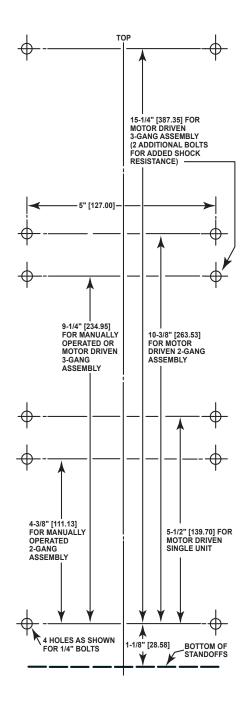
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UTPUT

100										40	VOL	T. SI	NGLE	PHA	SE						
	nput Volt	age:	"LINE" (4)	ONNECT	ION	1				BOOST*	CONNEC	TION	1		-5	TEP-UP"	CONNEC	TION			
0	Cor		0-40 Con	stant	Term	inals & R	otation		Con	stant	Terr	ninals &	Rotation		Cons	tant	Term	ínais & I	Rotation	Model	Sumbers
Freq. (Hz)	Max. Amps	Max. KVA	Max. Amps	Max KVA	CW CW CCW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	Input CW CCW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	CW CCW	Output CW CCW	Jumper CW CCW	Manually Operated	Motor Dri (See Fig
(H2) 60	Amps 25	1.0	Amps 30	1.2	14	1-3 2-4	CCW	(H2)	Amps	RVA	CCW	CCW	CCW	(H2)	Amps	KVA	CCW	CCW	CCW	116CU-40	(See Fig ME116CL
					14	34				120	voi	т, s	INGLE	PHA	SE						
	nput Volt	age:	"LINE" (120	ONNECT	ION	- 1		120		BOOST	CONNEC	TION	-	NA	5	TEP-UP*	CONNEC	TION			
0	utput Volt Cor	tage: nstant	0-120 Con	stant	Term	inals & R	otation	0-140	Con	stant	Terr	ninals &	Rotation		Cons	tant	Term	inals &	Rotation	Model	Sumbers
Freq. (Hz)	Max	Max. KVA	Max. Amps	Max KVA	CW CCW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max.	Max. KVA	Input CW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	CW CCW	Output CW CCW	Jumper CW CCW	Manually Operated	Motor D (See Fig
	Amps	1.2	-	_			CCW		Amps	1.4			CCW	(H2)	Amps	KVA	CCW	CCW	CCW	3PN116C	(586 Fi
50/60	10	1.2	13	1.6	14 14	1-3 3-4		50/60	10	1.4	1-2 4-5	1-3 34								116CU 116CT	ME11 ME11
60	12	1.4	15	1.8	14 14	1-3 3-4														3PN117C 117CU 117CT	ME11 ME11
										240	VOL	т, s	INGLE	PHA	SE						
	nput Volta		"LINE" (240 0-240	CONNECT	208 0-208			240		208 0-242	CONNEC	TION		120	5	TEP-UP*	CONNEC	TION			
0	Cor Curre	nstant ent Load	Con Con	stant tre Load	Term	inals & R	otation	0-250	Con	stant stant	Terr	ninals &	Rotation	0-280	Cons	tant Load	Term	inals &	Rotation	Model	lumbers
Freq. (Hz)	Max. Amos	Max. KVA	Max. Amps	Max KVA	CW CCW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	Input CW CCW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	CW CCW	Output CW CCW	Jumper CW CCW	Manually Operated	Motor I (See F
	3.5	0.84	япра 5	1.2		_	CCW	(H2) 50/60	3.5	0.98			ccw	(Hz) 50/60	3.5	0.42			CCW	3PN216C	
outo	3.5	u.84		1.2	14 14	1-3 3-4		0016C	2.5	0.58	1-2 4-5	1-3 34		oured	3.5	u.42	1-6 4-7	13 34		216CU 216CT	ME21 ME21
60	5	1.2	7	1.7	14 14	1-3 3-4														3PN217C 217CU 217CT	ME2 ME2
50/60	10	2.4	13	3.1	44 1-1	3-3 3-3	1-1 44	50/60	10	2.8	2-2 5-5	33 33	1-1 4-4							116CU-2	ME11
60	12	2.9	15	3.6	44 1-1	33 33	1-1 44													11708-2	ME11
			LINE	ONNECT	ION					480 80051*	VO CONNE?	T, S	INGLE		83	TEPJIP*	CONNEC	TION		_	
1	nput Volta utput Volt	age: tane:	480		380	_		480		380	-			240	Ē	208	COMINE				
	Cor	nstant int Load	Con Impeda	stant nce Load	Term	inals & R			Con Currer	stant nt Load	Terr		Rotation		Cons	tant t Load	Term	inals & I		Model	Numbers
Freq. (Hz)	Max. Amps	Max. KVA	Max. Amps	Max KVA	CW CCW	Output CW CCW	Jumper CW	Freq. (Hz)	Max. Amps	Max. KVA	CW CW CCW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	CW CCW	Output CW CCW	Jumper CW CCW	Manually Operated	Motor (See I
50/60	3.5	1.7	5	2.4	44	3-3 3-3	1-1 44	50/60	3.5	2.0	2.2 5.5	33 33	1-1 4-4	50/60	3.5	0.85	6-6 7-7	3.3 3.3	1.1 4.4	216CU-2	ME21
60	5	2.4	7	3.4	44	3-3 3-3	1-1 44													21708-2	ME21
			"INF" (ONNECT	10N					600 B005T	VOL	T, S	INGLE	PHA	93 3	TEP.IP*	CONNEC	TION	_		
- 1	nput Volta		600 0-600					Below	w models ion. If 60	will ope 10 volt na	rate at 6i imeplate	00 volts, ratings a	but namepla ire required, uffix types ar	le ratings add a -C s e CSA app	are at 480 auffix to th	volts an e model	d are UL number	Listed to at time of	o 575 volt of ordering		
0	Cor	nstant ext Load	Con	stant	Term	inals & R	otation		Con	(Ex: 21) stant 1t Load	ECU-2-C) Terr		uffix types an Rotation	e CSA app	Cons Curren	600 volt tant t Load	operatio	n. inals & I	Rotation	Model	Sumbers
Freq. (Hz)	Max. Amps	Max. KVA	Max. Amps	Max KVA	Input CW CCW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	Input CW CCW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	CW CW	Output CW CCW	Jumper CW CCW	Manually Operated	Motor (See I
60			5	3.0	44 1-1	3-3 3-3	1.1 4.4				CCW	CCW	CCW	()			CCW	CCW	CCW	216CU-2	ME21
								12	20 V	OLT,	THE	1EE	PHASE	OP	N D	117	4				
	nput Volt	age:	"LINE" (120	CONNECT	ION			120		BOOST*	CONNEC	TION			5	TEP-UP*	CONNEC	TION			
0	Cor Curren	tage: instant	0-120 Con	stant	Term	inals & R	otation	0-140	Con	stant	Terr	ninals &	Rotation		Cons	tant	Term	ínals & I	Rotation	Model	iunbers
Freq. (Hz)	Max	Max. KVA	Max. Amps	Max KVA	CW CW CCW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	Input CW	Output CW CCW	Jumper CW CCW	Freq. (Hz)	Max. Amps	Max. KVA	CW CW	Output CW CCW	Jumper CW CCW	Manually Operated	Motor (See I
	10	2.1	13	2.7	4-1-4 1-4-1	3-1-3 3-4-3	1-1 4-4	50/60	10	2.4	2-1-2 5-4-5	3-1-3 3-4-3	1-1 4-4	(14)	Anita	AIA	CCW	CCW	CCW	116CU-2	ME11
50/60		2.5	15	3.1	4.1.4	3-1-3 3-4-3	1-1 4-4													117CU-2	ME117
50/60 60	12				104			24	10 V	DLT,	THE	1==	PHASE	OP	N D	-67/		TION			
	12			ONNECT	ruN .										-5			TION			
	12 sput Volta	age:	240 0,240	_	208	-		240		208	-			120		IEP-UP	CONNEC	_			
	12 sput Volta utput Volta Cor Curre	age: tage: vstant nt Load	"LINE" C 240 0-240 Con Impeda	stant nce Load		inals & R	otation	240 0-280	Con	208 0-242 stant 11 Load		ninals &		120 0-280	Cons	tant t Load	Term	ínais &		Model	Sumbers
	12 nput Volta utput Volta Cor Curre Max. Amps	age: tage: instant int Load Max. KVA	"LINE" C 240 0-240 Con Impeda Max. Amps	stant nce Load Max KVA				240 0-280 Freq. (Hz)	Con Currer Max. Amps	208 0-242 stant tt Load Max. KVA				120 0-280 Freq. (Hz)	Cons Curren Max Amps	tant t Load Max. KVA	Term			Model Manually Operated	ionours
60 h 0	nput Volta utput Volt Cor Curre	age: tage: instant int Load Max. KVA 1.5	240 0-240 Con Impeda	stant nce Load Max KVA 2.1	Input CW CCW 4-1-4 1-4-1	inals & R Output CCW CCW 3.1-3 3.4-3	Interior CW CCW 1-1 4-4	240 0-280 Freq. (Hz) 50/50	Con	stant nt Load	Input CW CCW	ninals & Output CW CCW 3-1-3 3-4-3	Rotation CW CCW 1-1 4-4	120 0-280 Freq. (Hz) 50/60	Cons Curren Max Amps 3.5	tant t Load Max KVA 0.74	Term	inals & Output CW CCW 3.1-3 3.4-3	Rotation Jumper CW CCW 1-1 4-4	mouth	Motor I (See F
60 h O Freq. (Hz)	nput Volta Utput Volt Corre Max. Amps 3.5	_	240 0-240 Con Impeda Max Amps	_	Input CW CCW	Output CW CCW	Jumper CW CCW	50/60	Con Currer Max Amps 3.5	stant It Load Max. KVA 1.7	Input CW CCW 2-1-2 5-4-5	Output CW CCW 3-1-3 3-4-3	Jumper CW CCW 1-1 4-4	50/60	3.5	0.74	Term	Output CW CCW 3-1-3	Jumper CW CCW	Manually Operated	Motor (See F ME21)
60 b 0 Freq. (Hz) 50/60	nput Volta Utput Volt Corre Max. Amps 3.5	1.5	240 0-240 Con Impedai Max Amps 5 7	2.1 2.9	Input CW CCW 4.14 14.1 4.14 14.1	Output CW CCW 3-1-3 3-4-3	Jumper CW CCW 1-1 4-4	50/60	Con Currer Max Amps 3.5	Max KVA 1.7	Input CW CCW 2-1-2 5-4-5	Output CW CCW 3-1-3 3-4-3	Jumper CW CCW	50/60	3.5	0.74	Term	Output CW CCW 3-1-3 3-4-3	Jumper CW CCW	Manually Operated 216CU-2	Motor (See F ME21)
60 b 0 Freq. (Hz) 50/60	nput Volta utput Volt Cor Curre Max Amps 3.5 5	1.5	240 0-240 Con Impedai Max Amps 5 7	2.1 2.9	Input CW CCW 4-1-4 1-4-1 4-1-4 1-4-1	Output CW CCW 3-1-3 3-4-3	Jumper CW CCW 1-1 4-4	50/60	Control Currer Max. Amps 3.5 240 Y	Max KVA 1.7	Input CW CCW 2.1.2 545 VO	Output CW CCW 3.1.3 3.4.3	Jumper GW CCW 1-1 4-4	50/60	3.5	0.74	Term CW CCW 6-1-6 7-4-7	Output CW CCW 3-1-3 3-4-3	Jumper CW CCW 1-1 4-4	Manually Operated 216CU-2	Motor (See F ME21)
60 h O Freq. (Hz) 50/60	nput Volta utput Volt Cor Curre Max Amps 3.5 5	1.5 2.1 tage: instant ent Load	240 0-240 Con Impedar Max. Amps 5 7 7 "LINE" (240 0-240 Con Impedar	2.1 2.9 CONNECT	Input CW CCW 4.14 14.1 4.14 14.1 10N 208 0.208 0.208 Term	Output CCW 3-1-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3	Jumper CW CCW 1-1 4-4 1-1 4-4	50/50 240 0-280	Con Currer Max Amps 3.5 410 Y	stant tt Load Max. KVA 1.7 1.7 80051* 208 0.242 stant tt Load	21-2 54-5 VO	Output CW CCW 3-1-3 3-4-3 3-4-3 TION	Jumper CW CCW 1-1 4-4 Rotation	50/60 211/4 120 0-280	3.5 SI = V 'S Cons Curren	0.74	Term CCW 6-1-6 7-4-7 CONNEC	Output CCW 3-1-3 3-4-3 CTION	Jumper CW CCW 1-1 4-4	Manually Operated 216CU-2 217CU-2 Model	Motor I (See F ME21) ME21
60 h O Freq. (Hz) 50/60	nput Volta utput Volt Cor Curre Max Amps 3.5 5	1.5 2.1 tage: instant int Load Max. KVA	240 0-240 Con Impeda Max Amps 5 7 7 240 0-240 0-240 Con Impeda Max Amps	21 29 connect stant toe Load Max KVA	Input CCW CCW 4-1-4 1-4-1 4-1-4 1-4-1 1-4-	Output CCW 3-1-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3	Jumper CW CCW 1-1 1-1 4-4 4-4 bitation Jumper CW	50/50 240 0-280 Fireq. (Hz)	Con Current Max, Amps 3.5 240 240 Con Current Max, Amps	Max. KVA 1.7 MAKA 1.7 MAKA BOOST [*] 208 0.242 stant tt Load Max. KVA	Input CW CCW 2-1-2 5-4-5 CONNEC CONNEC Terr Input CW	Output CW CCW 3-1-3 3-4-3 3-4-3 TION TION TION	Jumper CW CCW 1-1 4-4 Rotation Jumper CW	50/60 PHA	3.5	0.74	Term CCW 6-1-6 7-4-7 CONNEC	Output CW CCW 3-1-3 3-4-3	Jumper CW CCW 1-1 4-4	Manually Operated 216CU-2 217CU-2 Model Manually Operated	Metor I (See F ME21) ME213 Numbers Numbers Motor I (See F
60 b 0 Freq. (Hz) 50/60 60 Freq. (Hz) 50/60	nput Volta utput Volta Max Amps 3.5 5 5 nput Volta utput Volta Utput Volta Utput Volta Max Amps 10	1.5 2.1 age: instant instant int Load Max. KVA 4.2	240 0-240 Con Impedai Max, Amps 5 7 7 240 0-240 0-240 Con Impedai Max, Amps 13	2.1 2.9 CONNECT Stant tee Lead Max KVA 5.4	Input CW CCW 4-14 1-4-1 4-14 1-4-1 1-4-1 1-4-1 1-4-1 1-4-1 1-1 1	Output CW CCW 3-1-3 3-4-3 3-3 3	Jumpar CW CCW 1-1 1-1 1-1 4-4 4-4 bitation Jumper CW CCW 1-1-1 4-4-4	50/50 240 0-280	Con Currer Max Amps 3.5 410 Y	stant tt Load Max. KVA 1.7 1.7 80051* 208 0.242 stant tt Load	21-2 54-5 VO	Output CW CCW 3.1.3 3.4.3	Jumper GW CCW 1-1 4-4	50/60 211/4 120 0-280	3.5 SI = V 'S Cons Curren	0.74	Term CCW 6-1-6 7-4-7 CONNEC	Output CCW 3-1-3 3-4-3 CTION	Jumper CW CCW 1-1 4-4	Manually Operated 216CU-2 217CU-2 217CU-2 Model Manually Operated 116CU-3	Motor I (See F ME210 ME211 ME211 Numbers Motor I (See F ME116
60 b 0 Freq. (Hz) 60 60 Freq. (Hz)	nput Volta utput Volt Cor Curre Max Amps 3.5 5 5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.5 2.1 tage: instant int Load Max. KVA	240 0-240 Con Impeda Max Amps 5 7 7 240 0-240 0-240 Con Impeda Max Amps	21 29 connect stant toe Load Max KVA	Input CW CCW 4-14 1-4-1 4-14 1-4-1 1-4-1 1-4-1 1-4-1 1-4-1 CW CCW CCW CCW 4-4-4 1-1-1	Output CCW 3-1-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3	Jumper CW CCW 1-1 1-1 4-4 4-4 bitation Jumper CW	50/60 240 0-280 Freq. (Hz) 60	Con Current Max. Amps 3.5 240 Con Current Max. Amps 10	Max. KVA 1.7 1.7 800ST 0242 0242 11 Load Max. KVA 4.8	241-2 54-5 CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC	Output CW CCW 3.1.3 3.4.3 TION TION TION TION Output CW CCW 3.3.3 3.3.3	Jumper CW CCW 1-1 4-4 Rotation Jumper CW CCW	50160 PH/A 120 0-280 Freq. (Hz)	3.5 SIEV S Cons Curren Max Amps	0.74 TEP-UP tant t Load Max KVA	Term CCW 6-1-6 7-4-7 CONNEC	Output CCW 3-1-3 3-4-3 CTION	Jumper CW CCW 1-1 4-4	Manually Operated 216CU-2 217CU-2 Model Manually Operated	Metor E (See F) ME216 ME217
60 Freq. (Hz) 5060 0 0 0 0 0 0 0 0 0 0 0 0 0	nput Volta urput Volt Curre Max Amps 3.5 5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.5 2.1 tage: instant instant KVA 4.2 5.0	240 0240 Con Impedial 5 7 7 1.UNE" 0 240 0240 Con Impedia 13 15	2.1 2.9 CONNECT Stant tee Lead Max KVA 5.4	Input CW CW 4-14 14-1 4-14 14-1 10N 208 0-208 0000000000	Output CW CCW 3-1-3 3-4-3 3-3 3	Jumpar CW CCW 1-1 1-1 1-1 4-4 4-4 bitation Jumper CW CCW 1-1-1 4-4-4	50/60 240 0-280 Freq. (Hz) 60	Con Current Max. Amps 3.5 240 Con Current Max. Amps 10	Max. KVA 1.7 1.7 800ST 0242 0242 11 Load Max. KVA 4.8	241-2 54-5 CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC	Output CW CCW 3.1.3 3.4.3 TION TION TION TION Output CW CCW 3.3.3 3.3.3	Jumper CW CCW 1-1 4-4 Rotation Jumper CW	50160 PH/A 120 0-280 Freq. (Hz) PH/A	3.5 SIEV S Cons Curren Max Amps	0.74 TEP-UP tant t Load Max KVA	Term CCW 6-1-6 7-4-7 CONNEC	Output CCW 3-1-3 3-4-3 CTION	Jumper CW CCW 1-1 4-4	Manually Operated 216CU-2 217CU-2 217CU-2 Model Manually Operated 116CU-3	Meter I (See F ME21) ME21 ME21 ME21
60 Freq. (Hz) 5060 0 0 0 0 0 0 0 0 0 0 0 0 0	nput Volta utput Volta Max Amps 3.5 5 5 nput Volta utput Volta Utput Volta Utput Volta Max Amps 10	1.5 2.1 tage: instant instant KVA 4.2 5.0	240 0-240 Con Impedai Max, Amps 5 7 7 240 0-240 0-240 Con Impedai Max, Amps 13	2.1 2.9 CONNECT Stant tee Lead Max KVA 5.4	Input CW CCW C414 141 4-14 141 4-14 141 141 208 0-208 0000000000	Output CW CCW 3-1-3 3-4-3 3-3 3	CW CCW CCW 1-1 4-4 1-1 4-4 54 50 50 50 50 50 50 50 50 50 50 50 50 50	50/60 240 0-280 Freq. (Hz) 60	Con Current Max. Amps 3.5 240 Con Current Max. Amps 10	Max. KVA 1.7 1.7 800ST 0242 0242 1 Load Max. KVA 4.8	Input CW CCW 2:1-2 545 CONNEC CONNEC CONNEC CONNEC	CW CW CW CW 3.1.3 3.4.3 3.4.3 THON THON CW CW CW CW CW CW CW CW CW CW CW CW CW	Jumper CW COW 1-1 4-4 HREE	50160 PH/A 120 0-280 Freq. (Hz)	3.5 SIEV S Cons Curren Max Amps	0.74 TEP-UP tant t Load Max KVA	Term CW CCW 615 74-7 Term CONNEC	Output CW CCW 3-1-3 3-4-3 CTION	Jumper CW CCW 1:1 4:4 Rotation Jumper CCW	Manually Operated 216CL2 217CL2 217CL2 217CL2 Model Manually Operated 116CL3	Motor (See I ME21 ME21 ME21 Sumbers Motor (See I ME11
60 Freq. (H2) 5060 60 Freq. (H2) 5060 60 h 0 0	nput Volta vigut Volt Gurre Max, 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.5 2.1 age: nstant Max KVA 4.2 5.0 age: tage: nstant entLoad	240 0-240 Impeda Max. Amps 5 7 7 1.INE ⁻ C 240 Cono Impeda 0-240 Cono 13 15	2.1 2.9 Stant tee Lead 6.2 CONNECT	Input CCW CCW CCW CCW CCW 14-14 14-1 14-1 14-1 14-1 14-1 14-1 14	Output CW CCW 3143 343 3-1-3 34-3 3-1-3 3-4-3 3-4-3 inals & R CW CCW CCW CCW 3-3-3-3 3-3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3 3-3-3-3 3-3-3-3 3-3-3-3 3-3-3-3 3-3-3-3-3 3-3-3-3 3-3-3-3-3 3-3-3-3-3-3 3-	CW CCW CCW 1-1 4-4 1-1 4-4 btation Jumper CCW COW CH COW CH COW CH COW CH COW CH COW CH COW CH CH CH CH CH CH CH CH CH CH CH CH CH	50150 240 0-280 Friteq. (Hz) 60 480 0-560	Conter Max. Amps 3.5 Con Currer Max. Amps 10 10	stant t Load Max. KVA 1.7 1.7 203 BOOST 1.7 203 0.242 204 0.242 1.7 203 0.242 2.24 1.7 2.05 1.7 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Input CW CCW 212 545 545 CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC	CW CW CCW 3.1.3 3.4.3 3.4.3 TION TION CW CW CW CW CW CW CW CW CW CW CW CW CW	Jumper CW COW 1-1 4-4 Rotation Jumper CW 1-1-1 4-4-4 HR1=1= Rotation	50160 PH/A 120 0-280 Freq. (Hz) PH/A 240 0-560	3.5 SEV Cons Curren Max Amps SEV SEV	0.74 TEP-UP Load Max KVA VYE TEP-UP 208 0.485 Satt Load	Term CW CCW 616 74-7 Term CONNEC	Output CCW 3-1-3 3-4-3 CTION CCW CCW CCW	Aumper CW CCW 1-1 4-4 Rotation Jumper CW CCW	Manually Operated 216CU-2 217CU-2 Model Manually Operated 116CU-3 117CU-3	Metor I (See F ME21) ME21 ME21 Sumbers Metor ME11) ME11
60 Free, (Hz) 50/60 60 Free, (Hz) 50/60 60 60	nput Voltav Core Curre 3.5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.5 2.1 age: instant int Lead Max KVA 4.2 5.0 age: instant mitage: instant Max KVA	240 0-240 Con Impeda 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2.1 2.9 connect Max KVA 5.4 6.2 connect start tast Load Max KVA	Input CW CCW 4-14 14-1 14-1 14-1 14-1 14-1 14-1 14-	Output CW CCW 3-1-3 3-4-3 3-3 3	Jumpar CW CCW 1-1 4-4 1-1 4-4 4-4 Jumpar CW CCW CCW CCW CCW CCW	50150 240 0-280 Freq. (Hz) 60 0-560 Freq. (Hz)	Conter Currer Max Artps 3.5 Conter Conter Currer Max Artps 10 Conter Currer Max Artps	stant Max. KVA 1.7 203 203 203 203 204 204 204 204 204 204 204 204 204 204	Terr Input CCW CCW CCW 21:2 54:5 CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC	CW CW CW CW 3.1.3 3.4.3 3.4.3 THON THON CW CW CW CW CW CW CW CW CW CW CW CW CW	Jumper CW COW 1-1 4-4 Rotation Jumper CW COW 1-1-1 4-4 4-4 COW	50160 PHA 120 0-280 Freq. (Hz) PHA 240 0-560 Freq. (Hz)	3.5 SIEV Cons Curren Max Amps SIEV SIEV	0.74 TEP-UP TEP-UP Max KVA TEP-UP 208 0-485 208 0-485 208 Max KVA	Term CW CCW 616 74-7 Term CONNEC	Output CW CCW CCW 343 343 343 343 343 343 343 343 343 500 CW CCW CCW	Aumper CW CCW 1-1 4-4 Rotation Jumper CCW CCW	Manually Operated 216CU-2 217CU-2 217CU-2 Monually Operated 116CU-3 117CU-3 117CU-3 Monually Operated Manually Operated	Meter I (See F ME217 ME217 ME217 ME217 ME217 ME217 ME217 ME217 ME217 ME217 ME217 ME217 ME217
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60 Freq. (H2) 5060 60 Freq. (H2) 5060 60 h 0 0	nput Voltav Core Curre 3.5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.5 2.1 age: instant int Lead Max KVA 4.2 5.0 age: instant mitage: instant Max KVA	240 0-240 Con Impeda 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2.1 2.9 connect Max KVA 5.4 6.2 connect start tast Load Max KVA	Input CW CCW 4-14 14-1 14-1 14-1 14-1 14-1 14-1 14-	Output CW CCW 343 343 3-1-3 343 3-1-3 343 3-1-3 343 3-1-3 3-4-3 CW CCW CCW CCW CCW 3-33 3-3-3-3 3-3-3-3 3-3-3-3 3-3-3-3 3-3-3-3 3-3-3-3 3-3-3-3 3-3-3-3 3-3-3-3-3 3-3-3-3-3 3-	Jumpar CW CCW 1-1 4-4 1-1 4-4 4-4 Jumpar CW CCW CCW CCW CCW CCW	50/60 240 0-280 Freq. (Hz) 60 Freq. (Hz) 60	Conter Max Arrps 3.5 240 Y Con Currer Max Arrps 10 10 10 Con Currer Max Arrps 3.5	stant Max. KVA 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	Input CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CONNEC CON	Output CW CCW 3-1-3 3-4-3 3-4-3 THON THON minals & Output CCW 3-3-3 3-3-3 3-3-3 THON THON minals & Output CCW 3-3-3 THON THON Minals & Output Sa3-3 3-3-3 THON Sa3-3 Sa3-3 3-3-3	Jumper COW 1-1 4-4 HREE CW COW 1-1-1 4-44 HREE COW COW 1-1-1 4-44	50/60 PHA 120 0-280 Freq. (Hz) 50/60 Freq. (Hz) 60	35 SEV Corrent Max Ampa SEV SEV SEV SEV SEV SEV SEV SEV SEV SEV	0.74 TEP-UP TEP-UP Load Max KVA TEP-UP TEP-UP Z08 0.485 Ant Load Max KVA	Term CW CCW 616 74-7 Term CONNEC	Output CW CCW CCW 343 343 343 343 343 343 343 343 343 500 CW CCW CCW	Aumper CW CCW 1-1 4-4 Rotation Jumper CCW CCW	Manually Operated 216CU-2 217CU-2 217CU-2 Monually Operated 116CU-3 117CU-3 117CU-3 Monually Operated Manually Operated	Metor (See F ME21 ME21 ME21 ME21 ME21 ME21 ME21 ME21
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