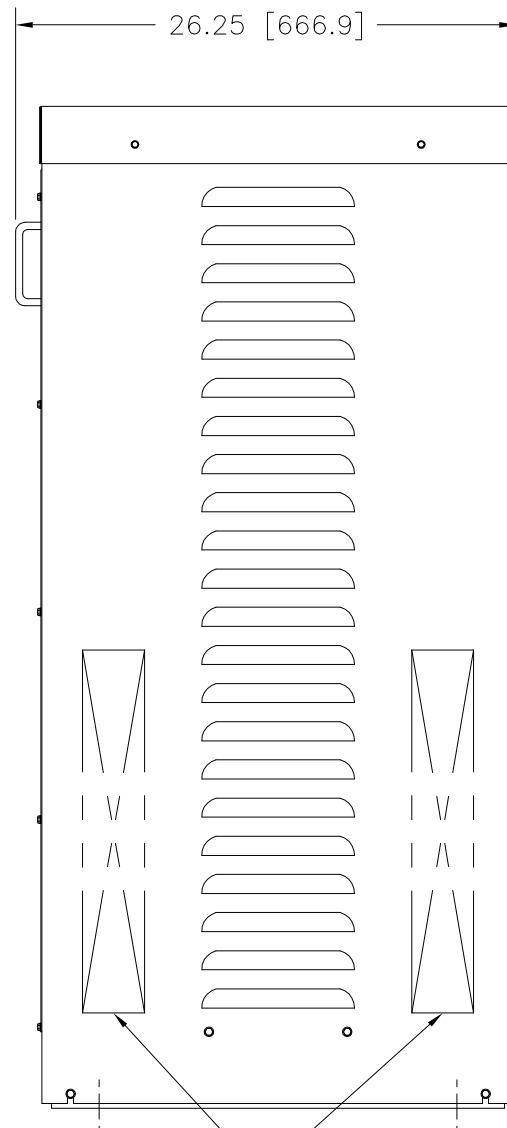


SCHEMATIC



NOTE:

SEE THE FRC-20 USER'S HANDBOOK, FORM #003-1922 FOR DETAILED INFORMATION.

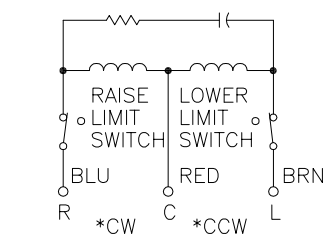
CONTROLS:

CONTROLLER ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER TO THE CONTROLLER ONLY.

OUTPUT ADJUSTMENT: THIS POTENTIOMETER CONTROL IS ROTATED CLOCKWISE TO INCREASE OUTPUT VOLTAGE SET POINT AND COUNTERCLOCKWISE TO DECREASE THE OUTPUT VOLTAGE SET POINT.

VOLTMETER: THE ANALOG VOLTMETER INDICATES THE REGULATED OUTPUT VOLTAGE SETTING.

RAISE/LOWER SWITCH: THIS SWITCH IS LOCATED INTERNALLY AND IS ACCESSIBLE FROM THE FRONT VIA THE REMOVABLE ACCESS PANEL. THE SWITCH ALLOWS THE REGULATOR TO BE MANUALLY CONTROLLED.



MOTOR CIRCUIT  
 120V, 50/60 HZ  
 \* ROTATION AS VIEWED FROM TOP END  
 MOTOR SPEEDS: SEE CHART

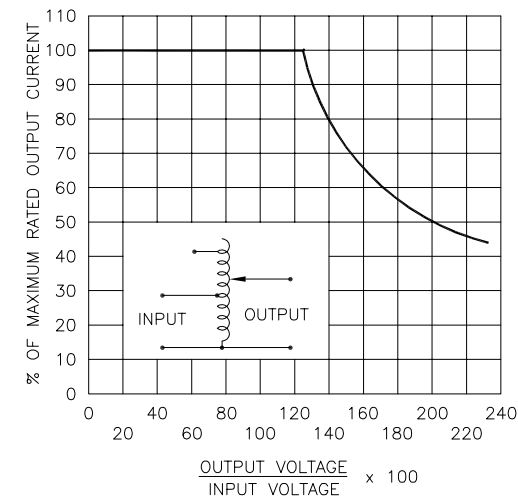


FIGURE A  
 MAXIMUM OUTPUT CURRENT OF ANY DUAL INPUT VOLTAGE OR VOLTAGE DOUBLER UNIT OPERATED AT LOWER INPUT VOLTAGE.

\* 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 CORRESPONDING DE-RATED CURRENT. MAXIMUM KVA AT LOWER OUTPUT VOLTAGES MAY BE CALCULATED FROM RATING CURVE, (SEE FIGURE A).

V.D. = VOLTAGE DOUBLER.

SPEED (SECONDS)	MODEL NUMBER
15	FV15M5021E-6Y
30	FV30M5021E-6Y
60	FV60M5021E-6Y

WIRING	SPECIFICATIONS					SHAFT ROTATION FOR INCREASE VOLTAGE	TERMINAL CONNECTIONS		
	INPUT		OUTPUT				FOR INCREASING VOLTAGE AS VIEWED FROM ROTOR END		
	VOLTS	HERTZ	VOLTS	MAX. AMPS	MAX. KVA		INPUT	JUMPER	OUTPUT
THREE PHASE WYE	480	50/60	0-480	56	46.6	CW	4-4-4	---	B-B-B
		60	0-560	56	54.3	CW	2-2-2	---	B-B-B
	240	60	0-560	56-24 V.D.	23.5++	CW	5-5-5	---	B-B-B

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS # DECIMALS: .12 HOLES .03 ANGLES 1° DRAFT 1-1/2° UNITS IN (mm) MATERIAL: ALL DIMENSIONS APPLY AFTER PLATING

TITLE: SPEC. CONTROL DRAWING MOTORIZED VARIABLE XFMR. FVM5021E-6Y

STACO ENERGY PRODUCTS CO. A COMPONENTS CORPORATION OF AMERICA COMPANY DAYTON, OHIO U.S.A.

DRAWN BY: TIM RAU DATE: 12/14/99 FIRST USED ON: DO NOT SCALE DWG. CUSTOMER APPROVAL: DATE: CHECKER: DATE: WEIGHT APPROX. CODE IDENT. NO. 83008 DWG. NO. 031-8376 ENGINEER: DATE: SCALE: .2=1 SHEET 1 OF 2