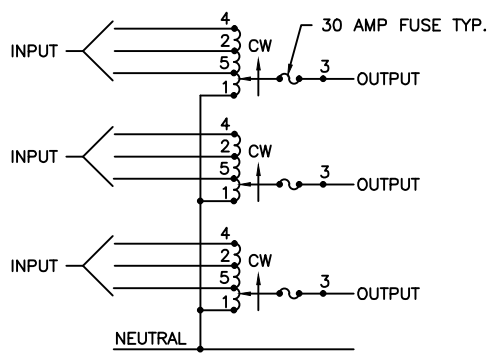


.56 [14.3] DIA. HOLE
 4 PLACES ON BOTTOM
 FLANGES FOR CUSTOMER
 MOUNTING



SCHEMATIC

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

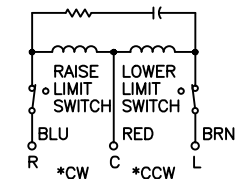
CONTROLS:

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

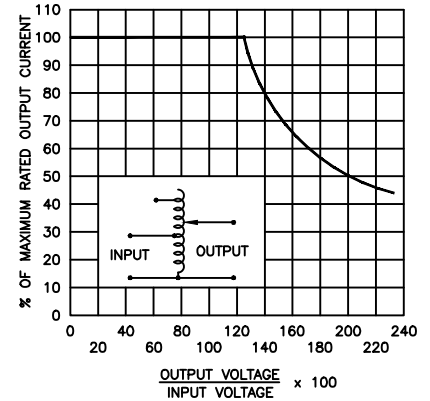


FIGURE A

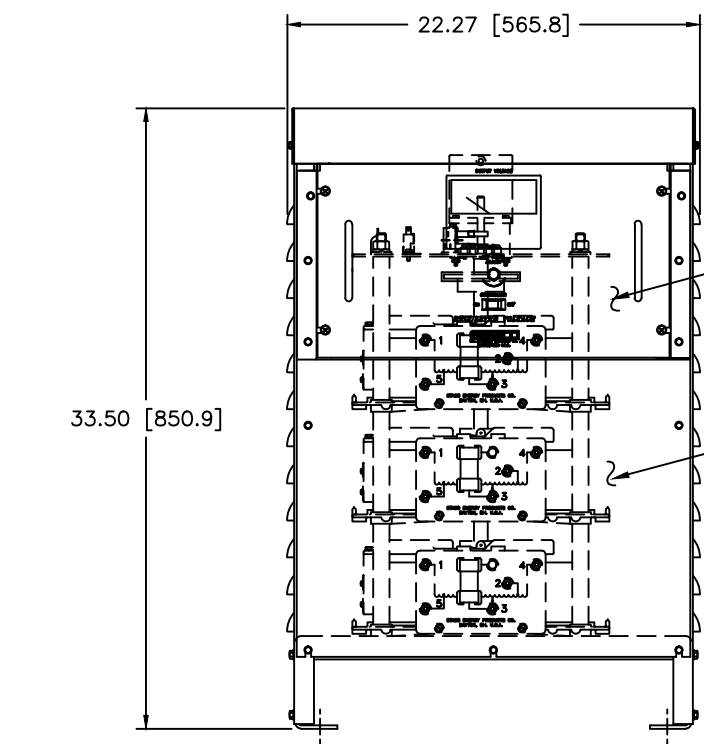
MAXIMUM OUTPUT CURRENT OF ANY
 DUAL INPUT VOLTAGE OR VOLTAGE DOUBLER
 UNIT OPERATED AT LOWER INPUT VOLTAGE.

* 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.

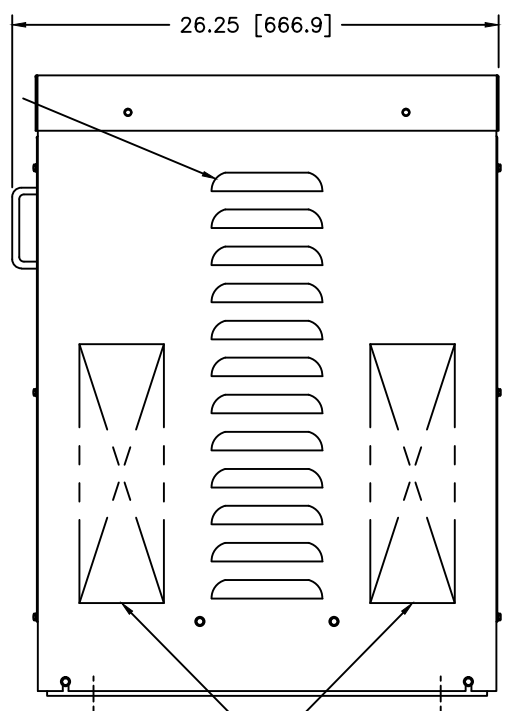
SPEED (SECONDS)	MODEL NUMBER
5	FV5M5021E-3Y
15	FV15M5021E-3Y
30	FV30M5021E-3Y
60	FV60M5021E-3Y



LOUVER VENTS
 BOTH SIDES

SEE SHEET #2
 FOR PANEL DETAILS

ACCESS PANEL TO
 FUSES & TERMINALS



RECOMMENDED AREAS
 FOR CONDUIT ENTRY

WIRING	INPUT		OUTPUT				SHAFT ROTATION FOR VOLTAGE INCREASE	TERMINAL CONNECTIONS FOR INCREASING VOLTAGE AS VIEWED FROM TOP	
	VOLTS	HERTZ	VOLTS	CONSTANT CURRENT LOAD		INPUT		OUTPUT	
				MAX. AMPS	MAX. KVA				
THREE PHASE WYE	480	50/60	0-480	28	23.3	CW	4-4-4	3-3-3	
		60	0-560	28	27.2	CW	2-2-2	3-3-3	
	240	60	0-560	28-12 V.D.	11.8 ++	CW	5-5-5	3-3-3	

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS:
 DECIMALS: .005
 FRACTIONS: 1/32
 ANGLES: 1/2°
 DIMENSIONS: .005
 DIMENSIONS: .005

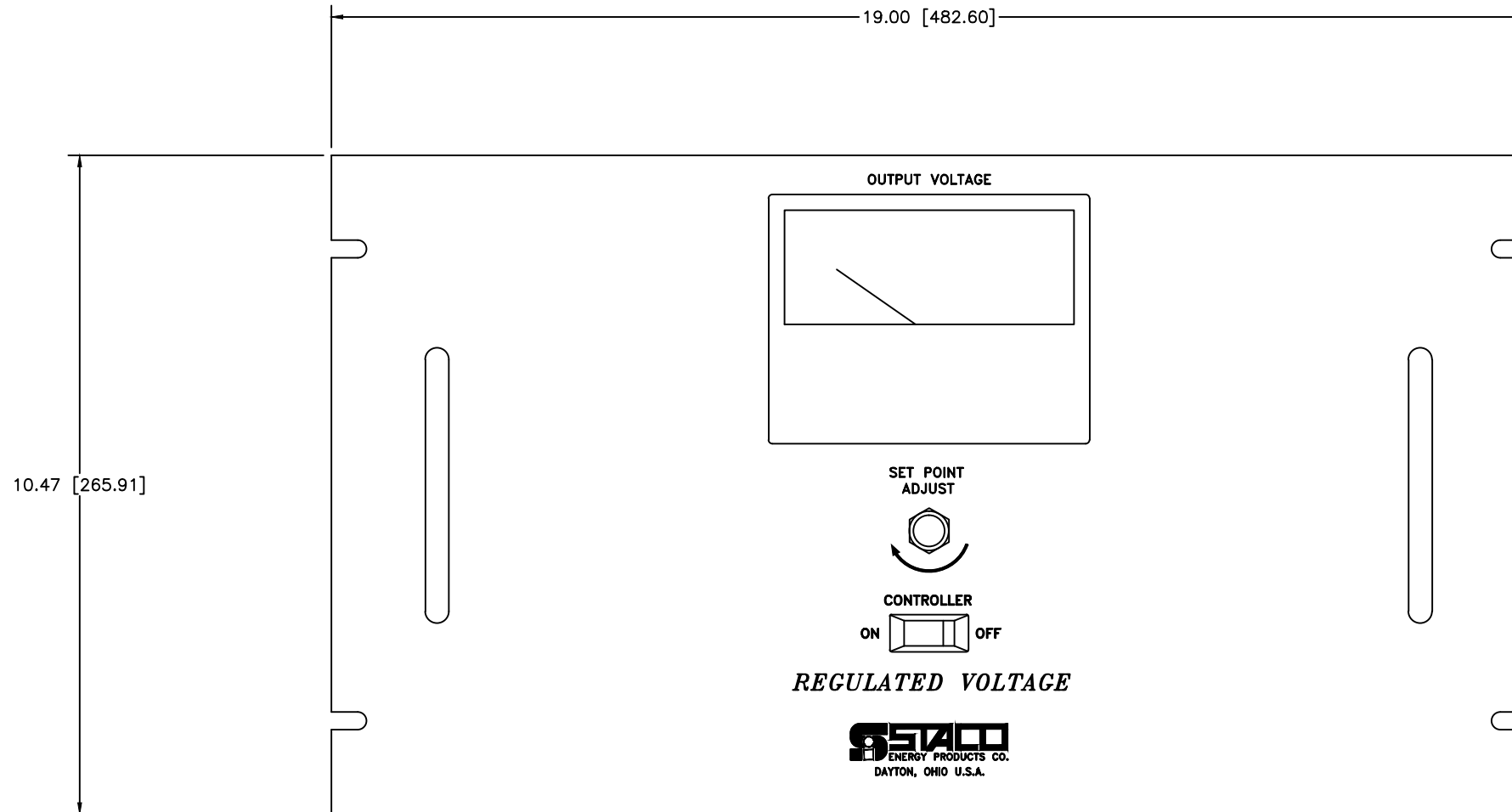
DATE: 12/15/99
 DRAWN BY: TIM RAU
 CHECKER: []
 ENGINEER: []

TITLE: SPEC. CONTROL DRAWING
 MOTORIZED VARIABLE XFMR.
 TYPE: FVM5021E-3Y

SCALE: .25=1
 SHEET 1 OF 2

CUSTOMER APPROVAL: [] DATE: []

DAYTON, OHIO U.S.A.



UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±		TITLES		DRAWN BY		DATE		FIRST USED ON		DO NOT SCALE DWG.	
DECIMALS	HOLES	ANGLES	DIMTS	SPEC. CONTROL DRAWING		TIM RAU		12/15/99		SCALE DWG.	
3/16	1/16	1°	1/16"	MOTORIZED VARIABLE XFMR		CHECKER		WEIGHT APPROV.		DWG. NO.	
3/32	1/32			TYPE: FVM5021E-3Y		ENGINEER		SCALE		DWG. NO.	
MATERIAL:				ALL DIMENSIONS APPLY AFTER PLATING				SCALE 1=1		SHEET 2 OF 2	
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<small>A Columbus Corporation of America Company 301 Geddes Boulevard Dayton, Ohio 45403 USA</small>										D 031-8291	