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D55 - DATA SHEET

SPECIFICATIONS MODEL D55

INPUT VOLTAGE	120/240VAC 50/60HZ
OUTPUT VOLTAGE	0-90 / 0-180VDC
SPEED REGULATION	1% OF BASE SPEED
ACCELERATION/DECELERATION	5 SEC
MINIMUM SPEED ADJUSTMENT	0-25%
MAXIMUM SPEED ADJUSTMENT	60-100%
CURRENT LIMIT RANGE	1-7 AMPS
TRANSIENT PROTECTION	MOV

FEATURES MODEL D55

MIN MINIMUM MOTOR SPEED ADJUSTMENT

MAX MAXIMUM MOTOR SPEED ADJUSTMENT

IR IR COMPENSATION, ADJUSTS SPEED REGULATION DUE TO LOAD CHANGES.
SEE TABLE BELOW FOR APPROXIMATE SETTINGS
(SMALLER MOTOR REQUIRES HIGHER IR COMP)

CUR CURRENT LIMIT (TORQUE)
SEE TABLE BELOW FOR APPROXIMATE SETTINGS

INH INHIBIT CIRCUIT, SWITCH CLOSURE ACROSS INH AND POT HI STOPS MOTOR, OPEN RESTARTS

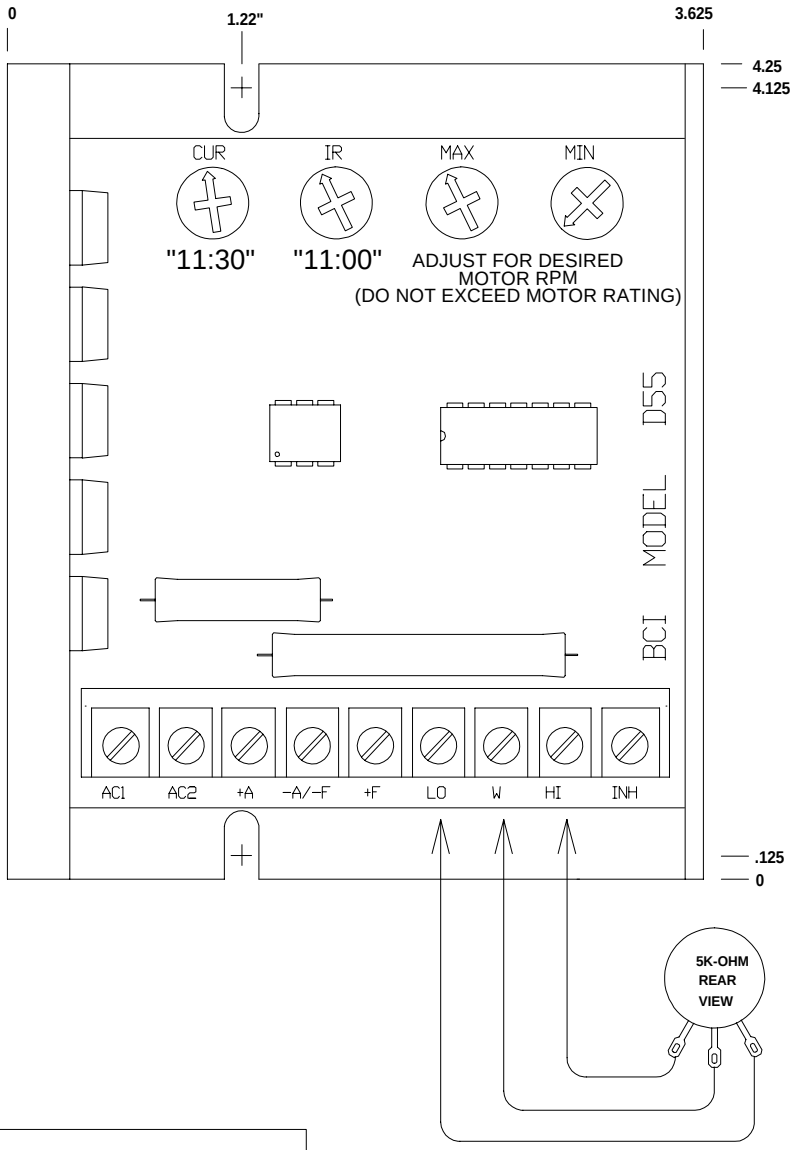
90VDC MOTOR - HORSEPOWER TABLE

	HORSEPOWER			
	1/8	1/4	1/3	1/2
AC AMPS	2.0	3.5	4.4	6.5
ARMATURE AMPS	1.4	2.8	3.4	5.0
LINE FUSING	3.0	4.0	6.0	8.0
CURRENT LIMIT ("CLOCK" SETTING)	8:45	9:30	10:00	11:30
IR COMP TRIM ("CLOCK" SETTING)	12:30	12:00	11:30	11:00

180VDC MOTOR - HORSEPOWER TABLE

	HORSEPOWER				
	1/4	1/3	1/2	3/4	1
AC AMPS	1.4	1.7	2.6	3.7	5.0
ARMATURE AMPS	1.8	2.2	2.3	4.8	6.5
LINE FUSING	3.0	3.0	4.0	6.0	8.0
CURRENT LIMIT ("CLOCK" SETTING)	8:30	8:45	9:45	10:00	11:00
IR COMP TRIM ("CLOCK" SETTING)	1:00	1:00	11:00	10:00	9:30

ALUMINUM EXTRUSION 6063T



INSTALLATION AND WIRING INSTRUCTIONS

MOUNT THE D55 AS TO PROVIDE SUFFICIENT HEAT DISSIPATION

115/230VAC TO TERMINALS AC1/AC2, FUSE AS REQUIRED FOR THE HORSEPOWER

ARMATURE LEADS TO TERMINALS +A AND -A/-F

WIRE IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES

WIRE IN THE POTENTIOMETER AS ILLUSTRATED

CHECK ALL WIRING FOR WHISKERS, TIGHTNESS, CORRECTNESS AND TRIM SETTINGS

CHECK FOR PROPER MOTOR ROTATION

ADJUST THE IR COMPENSATION AND CURRENT LIMIT AS REQUIRED FOR YOUR APPLICATION

CAUTION

FOR REVERSING APPLICATIONS, MOTOR MUST BE STOPPED BEFORE ANY ATTEMPT IS MADE TO REVERSE THE MOTOR

UNLESS REQUESTED OTHERWISE; ALL UNITS ARE SHIPPED WITH SETTINGS FOR 1/2HP 90VDC