

D55 - Data Sheet

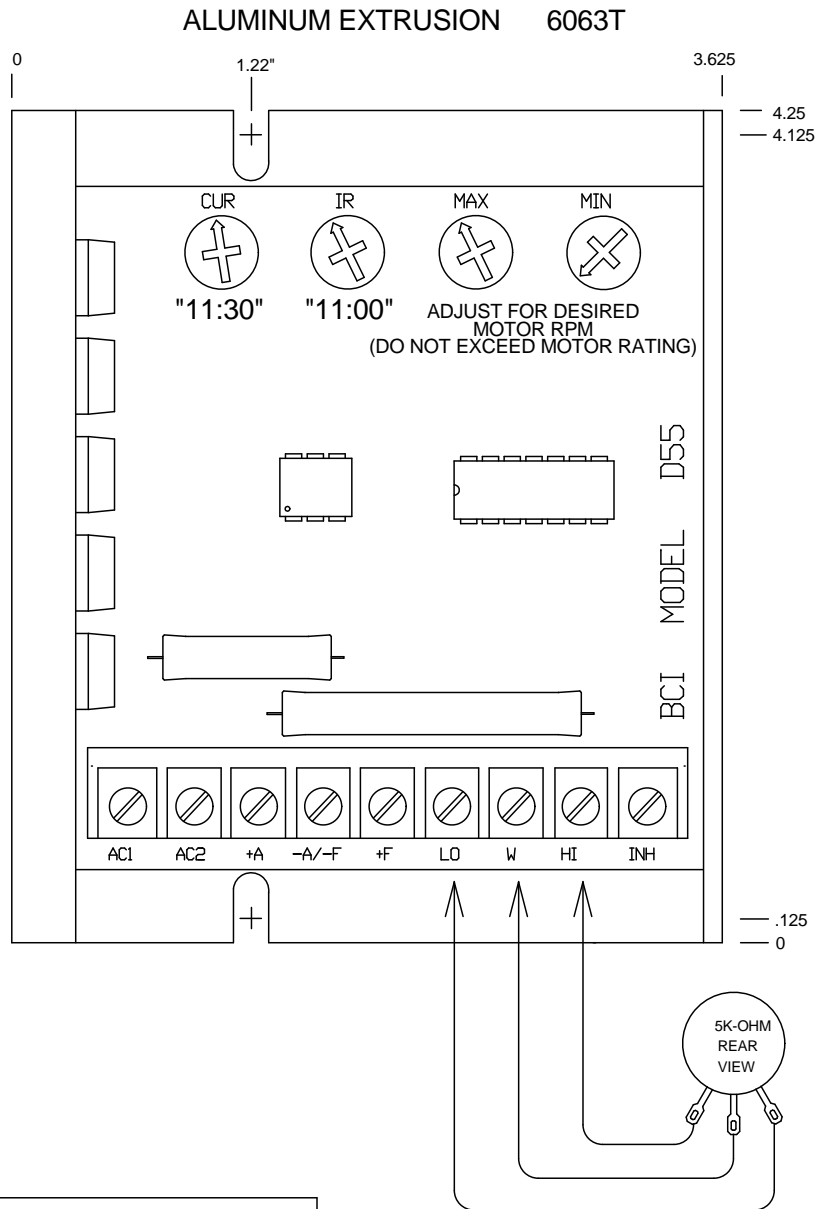
90VDC OR 180VDC MOTOR CONTROL

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



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