Terminal Layout and Switching Pattern
Single Phase and Three-Phase Reversing Drum Switch

Single Phase Reversing Drum Switches 115VAC or 230VAC

MODEL NUMBER		WIRE SIZE		SCREW TERMINAL
MAINTAINED	SPRING RETURN	MIN	MAX	TIGHTENING TORQUE
CW0177859S35	CW0177860S35	18 AWG	12 AWG	11 (in.- lb.)
CW0257859S35	CW0257860S35	16 AWG	10 AWG	17.5 (in.- lb.)
CW0327S59S35	CW0327860S35	16 AWG	10 AWG	18 (In.- lb.)
CB0400034S4D		14 AWG	6 AWG	22 (in.- lb.)
CB0630034S4D		10 AWG	3 AWG	35 (in.- lb.)

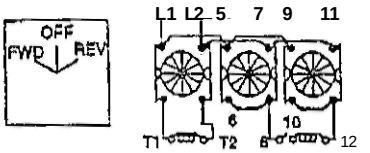
NOTE: All switch models listed above are for single phase motors (115, 208, or 230 VAC, 60Hz and 110 or 220V, 50Hz). For switches for three phase motors see reverse side,

NOTE: Motors must be reversible rotation.

Switches are shipped configured for a 4 lead single voltage motor operation. For 5, 6, 7, 8, or 9 lead configuration, refer to the OPTIONAL CONFIGURATIONS shown below.

SINGLE PHASE SWITCHING PATTERN

STANDARD SWITCH PATTERN AND TERMINAL NUMBERING FOR 4 LEAD MOTOR



SWITCH POSITION							
	REV	X	X		X	X	
	0						
	FWD	X	X	X			X
CONTACTS		1 2	3 4	5 6	7 8	9 10	11 12
STAGES		1		2		3	

OPTIONAL CONFIGURATIONS FOR 5, 6, 7, 8 AND 9 LEAD MOTORS

4 LEAD (FACTORY STANDARD)

MOTOR LEADS	SWITCH TERMINALS
T1	T1
T4	T2
T3	8
T5	12

5 LEAD, THERMALLY PROTECTED

MOTOR LEADS	SWITCH TERMINALS
P1	T1
T1	5
T4	T2
T5	14
T8	8

REMOVE JUMPER FROM L1 TO 5 ON SWITCH

6 LEAD NOT THERMALLY PROTECTED

HIGH VOLTAGE		LOW VOLTAGE	
MOTOR LEADS	SWITCH TERMINALS	MOTOR LEADS	SWITCH TERMINALS
T1	T1	T1	T1
T3	5	T2	T2
T3	5	T3	T1
T4	T2	T4	T2
T8	8	T8	8
T5	12	T5	12

REMOVE JUMPER FROM L1 TO 5 ON SWITCH

7LEAD, THERMALLY PROTECTED

HIGH VOLTAGE		LOW VOLTAGE	
MOTOR LEADS	switch terminals	MOTOR LEADS	SWITCH TERMINALS
P1	T1	P1	T1
T2	5	P2	5
T3	3	T2	T2
T4	T2	T3	5
T8	8	T4	T2
T5	12	T8	8
P2 (INSULATE SEPARATELY)		T5	12

REMOVE JUMPER PROM L1 TO 5 ON SWITCH

8 LEAD, THERMALLY PROTECTED

HIGH VOLTAGE		LOW VOLTAGE	
MOTOR LEADS	SWITCH TERMINALS	MOTOR LEADS	SWITCH TERMINALS
T1	T1	T1	T1
T2 JOIN AND		T2	T2
T3 INSULATE		T3	T1
T4	T2	T4	T2
T5	6	T5	8
T6 JOIN AND		T6	12
T7 INSULATE		T7	8
T8	12	T8	T2

9 LEAD, THERMALLY PROTECTED

HIGH VOLTAGE		LOW VOLTAGE	
MOTOR LEADS	SWITCH TERMINALS	MOTOR LEADS	SWITCH TERMINALS
P1	T1	P1	T1
T2 JOIN AND		T2	T2
T3 INSULATE		T4	T2
T4	T2	T5	9
T5	8	T7	9
T6 JOIN AND		T6	12
T7 INSULATE		T8	12
T8	12	T3	5
P2	5	P2	5

MOVE JUMPER FROM L1 TO 5 ON SWITCH

NOTE:

1) If motor rotation is reversed, Interchange motor leads connected to switch terminals 8 and 12.
2) The OPTIONAL CONFIGURATIONS shown above are only a guide and may vary depending upon the actual motor to be connected to the switch. Always refer to the motor nameplate for the proper connection of a specific motor.