



OPEN		CLOSE	
CLS 1-2			
CLS 1-3			
DLS 1-2			
DLS 1-3			
CTS 1-3 CLOSING TORQUE SWITCH INTERRUPTS CONTROL IF MECHANICAL OVERLOAD OCCURS DURING CLOSING CYCLE			
DTS 1-3 OPENING TORQUE SWITCH INTERRUPTS CONTROL IF MECHANICAL OVERLOAD OCCURS DURING OPENING CYCLE			

- CLS : CLOSE LIMIT SWITCH (250VAC 6A)
- DLS : OPEN LIMIT SWITCH (250VAC 6A)
- CTS : CLOSE TORQUE SWITCH (250VAC 6A)
- DTS : OPEN TORQUE SWITCH (250VAC 6A)
- TP : THERMAL PROTECTOR (MAX. 250VAC 15A)

WHEN CONVERTING A DIRECT ACTING ACTUATOR TO A REVERSE ACTING ACTUATOR, TWO CHANGES IN WIRING MUST BE MADE ON SERVO BOARD AT THE J-1 CONNECTOR:

- 1-REVERSE THE FEEDBACK POTENTIOMETER WIRES CONNECTED AT POINTS 4 AND 6.
- 2-REVERSE THE MOTOR OUTPUT WIRES CONNECTED AT POINTS 1 AND 3.

NOTE: DO NOT REVERSE THE INPUT SIGNAL POLARITY. ALSO, MAKE SURE THAT BOTH WIRING CHANGES ARE MADE - IF ONLY ONE IS MADE, THE ACTUATOR WILL RUN TO EITHER FULL OPEN OR FULL CLOSE.

AFTER THE WIRING CHANGES HAVE BEEN MADE, REFER TO CALIBRATION FOR SETTING THE ZERO AND SPAN.

DASHED LINES REPRESENT CUSTOMER WIRING  
REF DWG #BRS13492

✕ TERMINAL POINTS 4, 5 AND 6 DISCONTINUED ON UNITS MFG. AFTER 5/02.

ABZ15 THRU 100 WIRING DIAGRAM  
LRC-101 SERVO BOARD AND XMA-105 4-20 mA TRANSMITTER

SCALE:	APPROVED BY:	DRAWN BY: EC
DATE: 3/31/98		REVISED: 1/13/05

**ABZ VALVES & CONTROLS**

113 W. MAIN, MADISON, KS 66860

DRAWING NUMBER: BRS14738	REV: E
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