



	CLOSE	OPEN
CLS 1-2		
CLS 1-3		
OLS 1-2		
OLS 1-3		
CTS 1-3	CLOSING TORQUE SWITCH INTERRUPTS CONTROLS IF MECHANICAL OVERLOAD OCCURS DURING CLOSING CYCLE	
OTS 1-3	OPENING TORQUE SWITCH INTERRUPTS CONTROLS IF MECHANICAL OVERLOAD OCCURS DURING OPENING CYCLE	

CLS: CLOSE LIMIT SWITCH (250VAC, 6A MAX)
 OLS: OPEN LIMIT SWITCH (250VAC, 6A MAX)
 CTS: CLOSE TORQUE SWITCH (250VAC, 6A MAX)
 OTS: OPEN TORQUE SWITCH (250VAC, 6A MAX)

Terminal	Color	Function
1	BLUE	CONTROL 1 OUT
2	RED	CONTROL 2 OUT
1	BLACK	GROUND
2	WHITE	WIPER
3	RED	+2.5V
1	WHITE	L2 NEUTRAL
2	BLACK	L1 LINE
3	GREEN	EARTH GROUND
4	(-)	SIGNAL GROUND (-)
5	(+)	4-20mA (+)
6	(+)	1-5V, 0-5V, 0-10V (+)
7	(+)	+5V OUTPUT
8	(+)	+15V OUTPUT
1	ORANGE	GROUND
2	BROWN	VERRIDE
7	BLACK	VOLTAGE OUTPUT
6	ORANGE	mA OUTPUT
5	WHITE	GROUND
4	BLACK	AUX CLOSE OUT
3	ORANGE	AUX OPEN OUT
2	YELLOW	FAULT OUT
1	WHITE	RELAY COMMON

--- DENOTES CUSTOMER SUPPLIED ITEM
 X BUTT CONNECTOR
 □ CAP
 ACTUATOR SHOWN IN MID POSITION.

FORUM ENERGY TECHNOLOGIES Valve Solutions ABZ Valves & Controls

Title: **Wiring Diagram**

Parts:
 ABZ 015 thru ABZ 250 Electric Actuator
 440 VAC Three Phase (Modulating Service)
 DHC-300 Digital High Resolution Controller
 OTR-100 Feedback Transmitter / Relay Output
 LOCAL CONTROL UNIT
 XFR-100 Step Down Controls Transformer
 SSD-100 3 Phase Solid State Driver
 AMM-100 Auto/Manual Module
 RLY-100

DWG No.	Date	Drawn	Checked	Approved	Revision
WSB000-F2D-J-EFGHJ-X	08-17-12	BC	TP	TH	0