



	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)

SSD-100	
BLUE / WHITE	L2
RED / WHITE	L1
WHITE / RED	M1
WHITE / BLUE	M2
RED	CLOSE
BLUE	OPEN
BLACK / YELLOW	COMMON

DHC-300		
BLUE	1 CONTROL 1 OUT	J-1
RED	2 CONTROL 2 OUT	J-1
BLACK	1 GROUND	J-6
WHITE	2 WIPER	J-6
RED	3 +2.5V	J-6
WHITE	1 L2 NEUTRAL	J-2
BLACK	2 L1 LINE	J-2
GREEN	3 EARTH GROUND	J-2
(-)	4 SIGNAL GROUND (-)	J-2
(SELECT 1 INPUT) (+)	5 4-20mA (+)	J-2
	6 1-5V, 0-5V, 0-10V (+)	J-2
	7 +5V OUTPUT	J-2
	8 +15V OUTPUT	J-2
	1 GROUND	J-7
	2 OVERRIDE	J-7

DENOTES CUSTOMER SUPPLIED ITEM -----  
 BUTT CONNECTOR X  
 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  
 XFR-100 Step Down Controls Transformer  
 SSD-100 3 Phase Solid State Driver

DWG No.	Date	Drawn	Checked	Approved	Revision
WSB000-F2D-X-FG-X	01-16-13	BC	TP	TH	0