

1

2

3

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A

A

B

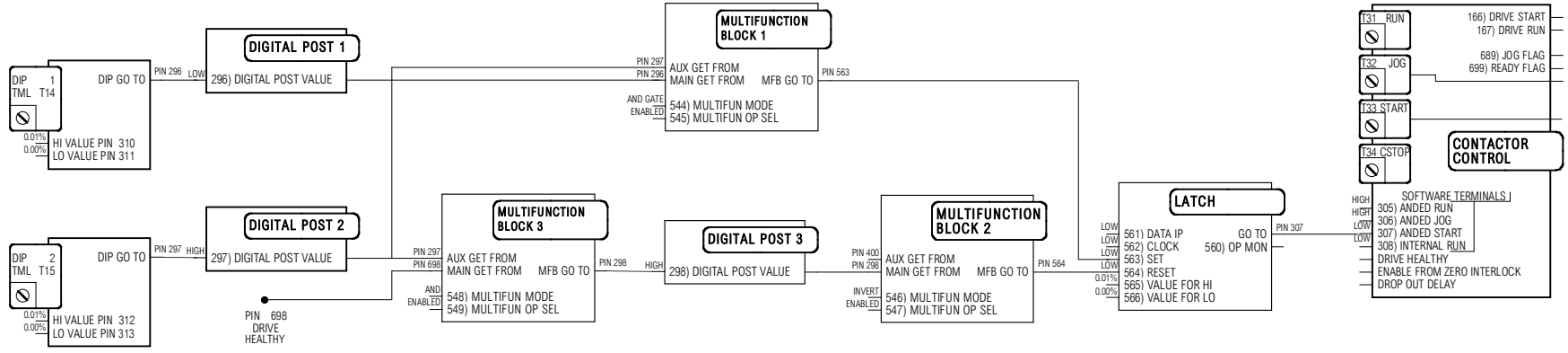
B

C

C

D

D



PROGRAMMING AND TEST PROCEDURE

Step 1 - Mode Change
 =====
 Put the drive in program mode. Navigate to the Configuration Menu.

```
....CONFIGURATION 2
.....ENABLE GOTO,GETFROM = ENABLED
```

Step 2 - Programming
 =====
 To program the functionality, navigate to the Digital Input Menu and then configure the Start Input.

```
....CONFIGURATION 2
.....DIGITAL INPUTS 3
.....DIP1 (T14) SETUP 4
.....GOTO = 296)DIGITAL POST 1
```

Then, the Stop Input.

```
....CONFIGURATION 2
.....DIGITAL INPUTS 3
.....DIP2 (T15) SETUP 4
.....GOTO = 297)DIGITAL POST 2
```

Now, connect the latch to the Anded Start

```
....CONFIGURATION 2
.....BLOCK OP CONFIG 3
.....LATCH GOTO = 307)ANDED START
```

Finally, program the logic associated with the inputs.

```
....APPLICATION BLOCKS 2
.....MULTI-FUNCTION 1 3
.....544)MULTIFUN1 MODE = AND GATE
.....545)MULTIFUN1 OP SEL = ENABLED
.....GET FROM = 296)DIGITAL POST 1
.....AUX GET FROM = 297)DIGITAL POST 2
.....GOTO = 563)LATCH SET IP
```

```
....MULTI-FUNCTION 2 3
.....546)MULTIFUN2 MODE = INVERT
.....547)MULTIFUN2 OP SEL = ENABLED
.....GET FROM = 298)DIGITAL POST 3
.....AUX GET FROM = 400)Block Disconnect
.....GOTO = 564)LATCH RESET IP
```

```
....MULTI-FUNCTION 3 3
.....548)MULTIFUN3 MODE = AND GATE
.....549)MULTIFUN3 OP SEL = ENABLED
.....GET FROM = 698)HEALTHY FLAG
.....AUX GET FROM = 297)DIGITAL POST 2
.....GOTO = 298)DIGITAL POST 3
```

Step 3 - Mode Change
 =====
 Put the drive back into normal run mode. Navigate to the Configuration Menu.

```
....CONFIGURATION 2
.....ENABLE GOTO,GETFROM = DISABLED
```

Step 4 - Save Parameters
 =====
 Save your program to the drive's EEPROM.

```
....PARAMETER SAVE 2
.....UP KEY TO CONTINUE
```

Press the up key and the bottom line will indicate:

.....SAVING

Step 5 - Test Your Program

To test your program, remove the wire from Terminal 31 (Run) to prevent the drive from generating current.

If Terminal 15 (DIP2) and 35 (Coast Stop) are ON, when Terminal 14 (DIP1) is energized the contactor will close and the internal LATCH will turn ON (Output = 0.01%). Also, the ANDED START will go HIGH.

```
....DIAGNOSTICS 2
.....BLOCK OP MONITOR 3
.....560)LATCH OUTPUT MON = 0.01 %
```

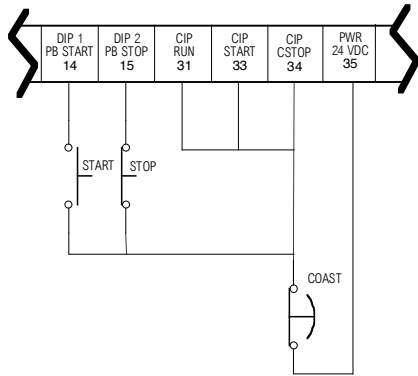
```
....CONFIGURATION 2
.....SOFTWARE TERMINALS 3
.....307)ANDED START = HIGH
```

When Terminal 15 (DIP2) is de-energized the contactor will open. The LATCH will turn OFF (Output = 0.00%) and the ANDED START will go LOW.

```
....DIAGNOSTICS 2
.....BLOCK OP MONITOR 3
.....560)LATCH OUTPUT MON = 0.00 %
```

```
....CONFIGURATION 2
.....SOFTWARE TERMINALS 3
.....307)ANDED START = LOW
```

If satisfied, replace the wire on Terminal 31.



ISS	DATE	APPROVED
A	15 AUG 01	T. COURNOW
B	10 MAY 04	T. COURNOW
C	24 AUG 04	T. COURNOW
D		
E		

<p>40 Log Canoe Circle, Stevensville, MD 21666 phone (410) 604-3400 fax: (410) 604-3500 email: info@bardac.com</p>	SHT. TITLE	THREE WIRE CONTROL CONFIGURATION	CUST.	BARDAC CORPORATION	DRN.	T. COURNOW	DWG. NO.	APP02
	DWG. TYPE	PLX APPLICATION NOTES	DIST.	N/A	DESIGN	T. COURNOW	DWG. ISS.	C
	JOB TITLE	APPLICATION MANUAL	P.O.	N/A	SCALE	NONE	JOB NO.	APP02
	LOCATION			USA	SIZE	A4	SHT.	1 OF 1

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