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3 SP6-5 Erbia Elevator Control

4 Additional internal variable declarations:

Variables	Address	Data Type	
Run	%M1	BOOL	On while station running
Int_Reset %M2		BOOL	Internal reset
Step_1 to Step_5	%T1 to %T5	BOOL	Step-in-progress bits
Extend_Tmr %R1		INT[3]	Times ram extend
Extend_Tmr_Dn	%M3	BOOL	Extend timer done
Retract_Tmr %R4		INT[3]	Times ram retract

5 Start/stop and initial start.

6 PB_1 %I00084 | Run %M00001 | E_STOP %I00097 | Step_5 %T00005 → Run M %M00001

7 Run %M00001 | LS_1 %I00081 | Step_1 %T00001 | Step_2 %T00002 | Step_3 %T00003 | Step_4 %T00004 | Step_5 %T00005 → Step_1 S %T00001

8 Step 1 Move elevator up

9 Step_1 %T00001 | LS_2 %I00082 → Step_1 R %T00001; Step_2 S %T00002

10 Step 2 Move can off

11 Step_2 %T00002 → TMR HUNDS, Extend_Tmr %R00001, PV 1000 → Extend_Tmr_Dn M %M00003

12 Extend_Tmr_Dn %M00003 | Step_2 %T00002 | PS_1 %I00083 → Step_2 R %T00002; Step_3 S %T00003

13 Step 3 Retract ram

14 Step_3 %T00003 → TMR HUNDS, Extend_Tmr %R00001, PV 1500 → Step_3 R %T00003; Step_4 S %T00004

15 Step 4 Move elevator down

16 Step_4 %T00004 | LS_1 %I00081 → Step_4 R %T00004; Step_5 S %T00005

17 Step 5 Unlatch run

18 Step_5 %T00005 | Run %M00001 → Step_5 R %T00005

19 Physical Outputs

20 Step_2 %T00002 → AR_CYL_1 M %Q00013

21 Step_1 %T00001 → MOTOR_UP M %Q00014
JOG_UP %I00098 | Run %M00001 | E_STOP %I00097 | LS_2 %I00082 | MOTOR_DOWN %Q00015

22 Step_4 %T00004 → MOTOR_DOWN M %Q00015
JOG_DOWN %I00099 | Run %M00001 | E_STOP %I00097 | LS_1 %I00081 | MOTOR_UP %Q00014

23 Emergency Stop

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