Task / PLC_1 [CPU 314C-2 PN/DP] / Program blocks

Main [OB1]
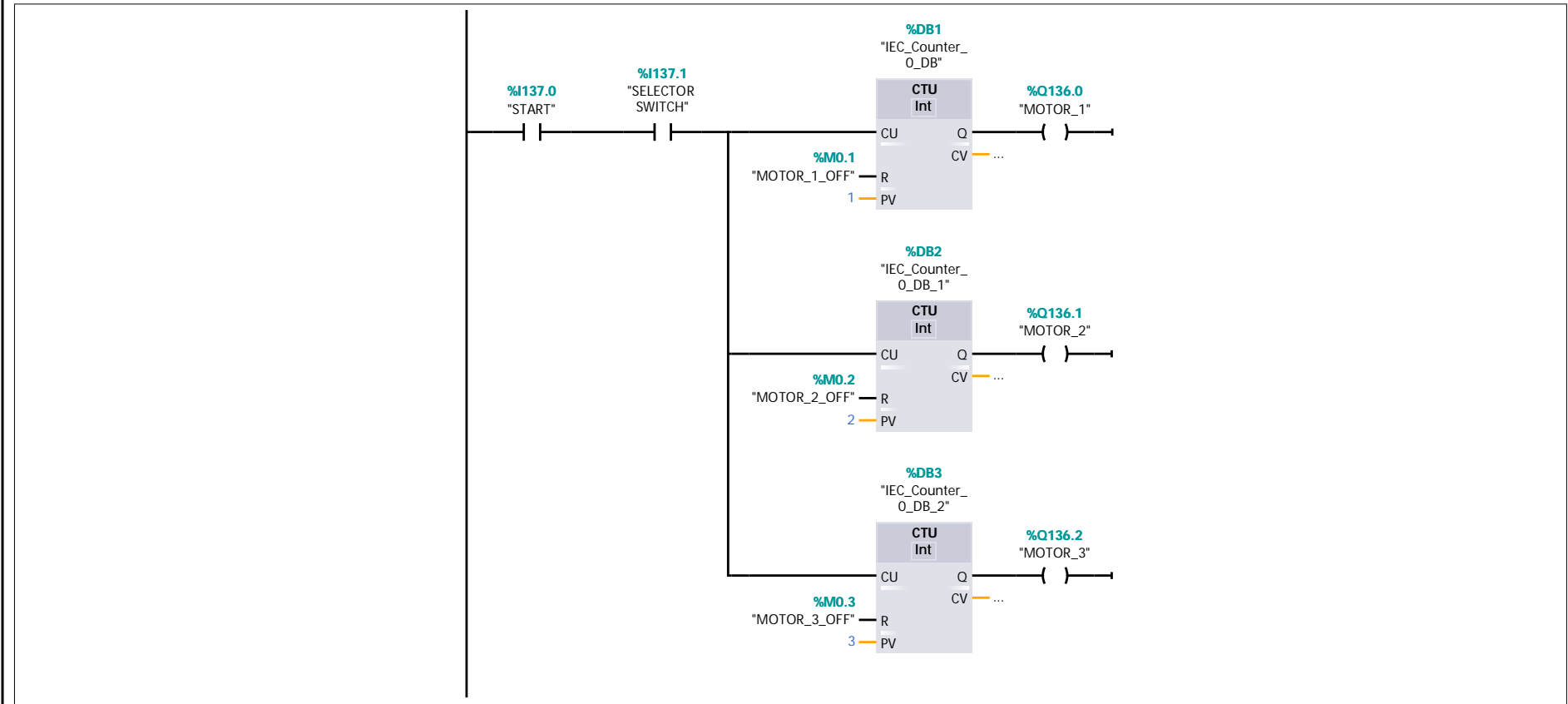
Main Properties							
General							
Name	Main	**Number**	1	**Type**	OB	**Language**	LAD
Numbering	automatic						
Information							
Title	"Main Program Sweep (Cycle)"	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

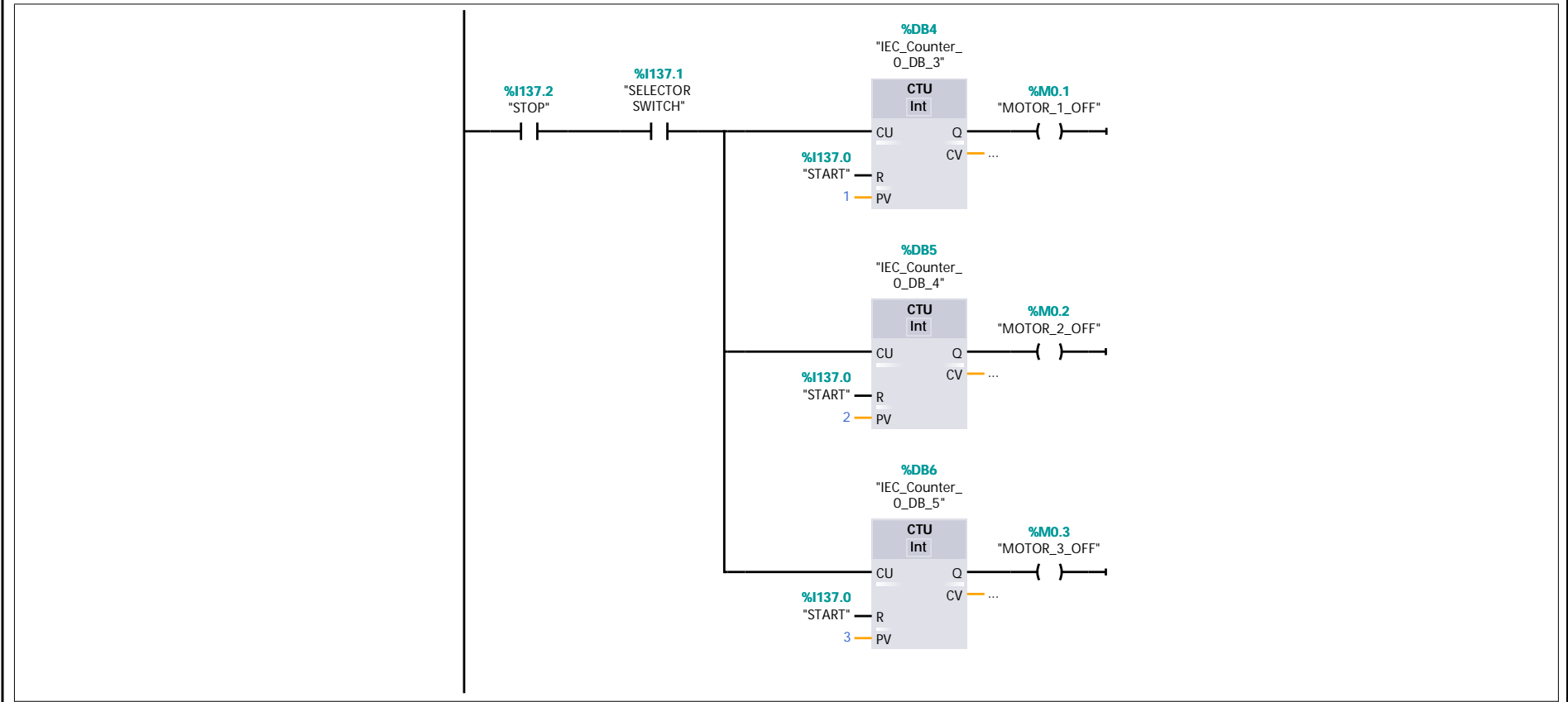| Main				
Name	**Data type**	**Offset**	**Default value**	**Comment**
▼ Temp				
OB1_EV_CLASS	Byte	0.0		Bits 0-3 = 1 (Coming event), Bits 4-7 = 1 (Event class 1)
OB1_SCAN_1	Byte	1.0		1 (Cold restart scan 1 of OB 1), 3 (Scan 2-n of OB 1)
OB1_PRIORITY	Byte	2.0		Priority of OB Execution
OB1_OB_NUMBR	Byte	3.0		1 (Organization block 1, OB1)
OB1_RESERVED_1	Byte	4.0		Reserved for system
OB1_RESERVED_2	Byte	5.0		Reserved for system
OB1_PREV_CYCLE	Int	6.0		Cycle time of previous OB1 scan (milliseconds)
OB1_MIN_CYCLE	Int	8.0		Minimum cycle time of OB1 (milliseconds)
OB1_MAX_CYCLE	Int	10.0		Maximum cycle time of OB1 (milliseconds)
OB1_DATE_TIME	Date_And_Time	12.0		Date and time OB1 started
Constant				

Network 1:

Use of "counter"

1. There is a selector switch S1, one "START" button and one "STOP" button.
2. If selector switch S1 pressed one along with START button then motor 1 must be on.
3. If selector switch S1 is pressed two times along with START then motor 2must be on.
4. If selector switch S1 is pressed three times along with START motor 3 must be on.

Symbol	Address	Type	Comment
"MOTOR_1"	%Q136.0	Bool	
"MOTOR_1_OFF"	%M0.1	Bool	
"MOTOR_2"	%Q136.1	Bool	
"MOTOR_2_OFF"	%M0.2	Bool	
"MOTOR_3"	%Q136.2	Bool	
"MOTOR_3_OFF"	%M0.3	Bool	
"SELECTOR SWITCH"	%I137.1	Bool	
"START"	%I137.0	Bool	

Network 2:

5. If selector switch S1 pressed one time along with STOP button then motor 1 must be OFF.
6. If selector switch S1 is pressed two times along with STOP then motor 2 must be OFF.
7. If selector switch S1 is pressed three times along with STOP motor 3 must be OFF.

%I137.2 "STOP"   **%I137.1** "SELECTOR SWITCH"

%DB4 "IEC_Counter_ 0_DB_3"

```
        CTU
        Int
CU          Q        %M0.1
            CV  ...   "MOTOR_1_OFF"
%I137.0
"START" ─ R
     1 ─ PV
```

%DB5 "IEC_Counter_ 0_DB_4"

```
        CTU
        Int
CU          Q        %M0.2
            CV  ...   "MOTOR_2_OFF"
%I137.0
"START" ─ R
     2 ─ PV
```

%DB6 "IEC_Counter_ 0_DB_5"

```
        CTU
        Int
CU          Q        %M0.3
            CV  ...   "MOTOR_3_OFF"
%I137.0
"START" ─ R
     3 ─ PV
```

Symbol	Address	Type	Comment
"MOTOR_1_OFF"	%M0.1	Bool	
"MOTOR_2_OFF"	%M0.2	Bool	
"MOTOR_3_OFF"	%M0.3	Bool	
"SELECTOR SWITCH"	%I137.1	Bool	
"START"	%I137.0	Bool	
"STOP"	%I137.2	Bool	