Totally Integrated	
Automation Portal	

## Energy\_Drink\_V15.1 / ENERGY\_DRINK\_PROC [CPU 314C-2 PN/DP] / Program blocks / FBs

	_		_	_	_		_		•				
STAR/DELT	A_STARTER [FB2	2]											
STAR/DELTA_S	TARTER Properties												
General													
Name	STAR/DELTA_STARTER		Number	2	2	Туре	F	В		Lar	nguage	STL	
Numbering	Automatic												
Information													
Title	9		Author			Comm	ent				Family		
Version	0.1	.1 User-de			ned ID								
STAR/DELTA_S	TARTER												
Name		Data ty	ype	Offset	Default value		Accessible from HMI/OPC UA	able	HMI engi-		Supervi- sion	Comment	
▼ Input													
START		Bool		0.0	false		True	True	True	False			
STOP		Bool		0.1	false		True	True	True	False			

				from HMI/OPC UA				sion	
Input									
START	Bool	0.0	false	True	True	True	False		
STOP	Bool	0.1	false	True	True	True	False		
OVL	Bool	0.2	false	True	True	True	False		
PT	Time	2.0	T#0ms	True	True	True	False		
Output									
KM_MAIN	Bool	6.0	false	True	True	True	False		
KM_STAR	Bool	6.1	false	True		True	False		
KM_DELTA	Bool	6.2	false	True	True	True	False		
H_MAIN	Bool	6.3	false	True	True	True	False		
H_STAR	Bool	6.4	false	True	True	True	False		
H_DELTA	Bool	6.5	false	True	True	True	False		
H_STOPPED	Bool	6.6	false	True	True	True	False		
H_OVL	Bool	6.7	false	True	True	True	False		
CMD_Feedback	Bool	7.0	false	True	True	True	False		
InOut									
Static									
SYSTEM_OK	Bool	8.0	false	True	True	True	False		
M_MAIN	Bool	8.1	false	True	True	True	False		
M_STAR	Bool	8.2	false	True	True	True	False		
M_DELTA	Bool	8.3	false	True	True	True	False		
M_TIMER	Bool	8.4	false	True	True	True	False		
TIME	Time	10.0	T#0ms	True	True	True	False		
▼ STAR_TIMER	TON	14.0		True	True	True	True		
<b>▼</b> Input									
IN	Bool	14.0	false	True	True	True	False		
PT	Time	16.0	T#0MS	True	True	True	False		
<b>▼</b> Output									
Q	Bool	20.0	false	True	True	True	False		
ET	Time	22.0	T#0MS	True		True	False		
InOut									
<b>▼</b> Static									
STATE	Byte	26.0	16#0	True	True	True	False		
STIME	Time	28.0	T#0MS	True		True	False		
	THITC			11.0.0			I GISC		

Temp Constant

```
0001 // WHILE OVL AND STOP = 1, SYSTEM OK
0002 U #OVL
0003 U #STOP
0004 = #SYSTEM_OK
```

```
0001 // SET MEMORY TO ACTIVATE TIMER AND STAR CONTACTOR CONDITION
0002
                #SYSTEM_OK
0003
          UN
                #STAR_TIMER.Q
0004
          U (
0005
          U
                #START
0006
          0
                #M_STAR
0007
0008
           S
                 #M_TIMER
0009
                 #M_STAR
0010
0011 // IF TIME.Q = TRUE, RESET M_TIMER
0012
           U
                 #STAR_TIMER.Q
0013
           R
                 #M_TIMER
```

```
Totally Integrated
 Automation Portal
0014
0015 // IF S_TIMER = TRUE, ACTIVATE TIMER
0016
      CALL #STAR TIMER
0017
        Time
0018
        IN :=#M_TIMER
0019
       PT :=#PT
0020
       Q :=
0021
       ET :=#STAR_TIMER.ET
0022
0001 // WHILE M STAR = 1, STAR CONTACTOR AND LED ARE "ON"
0002
          #M_STAR
0003
          #KM_STAR
0004
          #H_STAR
0001 // CONDITIONS TO ACTIVATE M_MAIN CONTACTOR
0002
          #SYSTEM_OK
0003
      U(
0004
      U
          #M_STAR
0005
      0
          #M_MAIN
0006
      )
          #M_MAIN
0007
8000
0009 // WHILE M_MAIN = 1, MAIN CONTACTOR AND LED ARE "ON"
0010
          #M MAIN
0011
          #KM_MAIN
0012
          #H_MAIN
0001 // CONDITIONS TO ACTIVATE M DELTA CONTACTOR
0002
          #SYSTEM_OK
0003
      U
          #M_MAIN
0004
      UN
          #M_STAR
0005
          #M_DELTA
0006
0007 // WHILE M_DELTA = 1, DELTA CONTACTOR AND LED ARE "ON"
8000
          #M DELTA
0009
          #KM_DELTA
0010
          #H DELTA
0011
          #CMD_Feedback
0001
      UN
          #STOP
0002
          #M MAIN
0003
          #H_STOPPED
0001
          #OVL
0002
          #H_OVL
```