

Blikani_4_1

Blikani [CPU 313C]

Blikani

General

| | | | |
|----------------|---|---------------|---------------------------|
| Name | Blikani | Author | Dipl. Ing. Pavel Votrubec |
| Comment | Úloha rozblikání žárovky H1 při stisku tlačítka S1. Perioda blikání 2 Hz. | Rack | 0 |
| Slot | 2 | | |

General\Catalog information

| | | | |
|--------------------------|---------------------|-------------------------|--|
| Short designation | CPU 313C | Description | Work memory 128KB; 0.1ms/1000 instructions; DI24/DO16; AI5/AO2 integrated; 3 pulse outputs (2.5kHz); 3 channels counting and measuring with 24V (30kHz) incremental encoders; MPI interface; multi-tier configuration up to 31 modules |
| Order number | 6ES7 313-5BG04-0AB0 | Firmware version | V3.3 |

General\Identification & Maintenance

| | | | |
|--------------------------|--|----------------------------|--|
| Plant designation | | Location identifier | |
|--------------------------|--|----------------------------|--|

MPI interface\General

| | | | |
|-------------|-----------------|----------------|--|
| Name | MPI interface_1 | Comment | |
|-------------|-----------------|----------------|--|

MPI interface\General\Catalog information

| | | | |
|--------------------------|-----------|--------------------|----------------------------------|
| Short designation | DI24/DO16 | Description | Digital input/output DI24 + DO16 |
|--------------------------|-----------|--------------------|----------------------------------|

MPI interface\Interrupt selection

| | | | |
|----------------------------|------|--|--|
| Interrupt selection | None | | |
|----------------------------|------|--|--|

MPI interface\Inputs

| | | | |
|-------------------------|-----------------|--|--|
| Temperature unit | Degrees Celsius | | |
|-------------------------|-----------------|--|--|

MPI interface\Inputs\Channel group 0 - 3

| | | | |
|--------------------|-----|--|--|
| Input delay | 3ms | | |
|--------------------|-----|--|--|

MPI interface\Inputs\Channel group 0 - 3\Hardware interrupt channel 0

| | | | |
|-------------------------------|---|--------------------------------|---|
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
|-------------------------------|---|--------------------------------|---|

MPI interface\Inputs\Channel group 0 - 3\Hardware interrupt channel 1

| | | | |
|-------------------------------|---|--------------------------------|---|
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
|-------------------------------|---|--------------------------------|---|

MPI interface\Inputs\Channel group 0 - 3\Hardware interrupt channel 2

| | | | |
|-------------------------------|---|--------------------------------|---|
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
|-------------------------------|---|--------------------------------|---|

MPI interface\Inputs\Channel group 0 - 3\Hardware interrupt channel 3

| | | | |
|-------------------------------|---|--------------------------------|---|
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
|-------------------------------|---|--------------------------------|---|

MPI interface\Inputs\Channel group 4 - 7

| | | | |
|--------------------|-----|--|--|
| Input delay | 3ms | | |
|--------------------|-----|--|--|

MPI interface\Inputs\Channel group 4 - 7\Hardware interrupt channel 4

| | | | |
|-------------------------------|---|--------------------------------|---|
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
|-------------------------------|---|--------------------------------|---|

MPI interface\Inputs\Channel group 4 - 7\Hardware interrupt channel 5

| | | | |
|-------------------------------|---|--------------------------------|---|
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
|-------------------------------|---|--------------------------------|---|

MPI interface\Inputs\Channel group 4 - 7\Hardware interrupt channel 6

| | | | |
|-------------------------------|---|--------------------------------|---|
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
|-------------------------------|---|--------------------------------|---|

MPI interface\Inputs\Channel group 4 - 7\Hardware interrupt channel 7

| | | | |
|-------------------------------|---|--------------------------------|---|
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
|-------------------------------|---|--------------------------------|---|

MPI interface\Inputs\Channel 0

| | | | |
|-----------------------|---------|------------------------|---------|
| Measuring type | Voltage | Measuring range | +/- 10V |
|-----------------------|---------|------------------------|---------|

| | | | |
|---|---------|-------------------------|---------|
| Totally Integrated Automation Portal | | | |
| Interference frequency suppression | 50Hz | Integration time | 20ms |
| MPI interface\Inputs\Channel group 8 - 11 | | | |
| Input delay | 3ms | | |
| MPI interface\Inputs\Channel group 8 - 11\Hardware interrupt channel 8 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel group 8 - 11\Hardware interrupt channel 9 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel group 8 - 11\Hardware interrupt channel 10 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel group 8 - 11\Hardware interrupt channel 11 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel 1 | | | |
| Measuring type | Voltage | Measuring range | +/- 10V |
| Interference frequency suppression | 50Hz | Integration time | 20ms |
| MPI interface\Inputs\Channel group 12 - 15 | | | |
| Input delay | 3ms | | |
| MPI interface\Inputs\Channel group 12 - 15\Hardware interrupt channel 12 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel group 12 - 15\Hardware interrupt channel 13 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel group 12 - 15\Hardware interrupt channel 14 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel group 12 - 15\Hardware interrupt channel 15 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel 2 | | | |
| Measuring type | Voltage | Measuring range | +/- 10V |
| Interference frequency suppression | 50Hz | Integration time | 20ms |
| MPI interface\Inputs\Channel group 16 - 19 | | | |
| Input delay | 3ms | | |
| MPI interface\Inputs\Channel group 16 - 19\Hardware interrupt channel 16 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel group 16 - 19\Hardware interrupt channel 17 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel group 16 - 19\Hardware interrupt channel 18 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel group 16 - 19\Hardware interrupt channel 19 | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 |
| MPI interface\Inputs\Channel 3 | | | |
| Measuring type | Voltage | Measuring range | +/- 10V |
| Interference frequency suppression | 50Hz | Integration time | 20ms |
| MPI interface\Inputs\Channel group 20 - 23 | | | |
| Input delay | 3ms | | |
| | | | |

| | | | | | | | | |
|---|----------------------------|-------------------------|-----------------------------------|--------------|------|------|------|------|
| Totally Integrated Automation Portal | | | | | | | | |
| MPI interface\Inputs\Channel group 20 - 23\Hardware interrupt channel 20 | | | | | | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 | | | | | |
| MPI interface\Inputs\Channel group 20 - 23\Hardware interrupt channel 21 | | | | | | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 | | | | | |
| MPI interface\Inputs\Channel group 20 - 23\Hardware interrupt channel 22 | | | | | | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 | | | | | |
| MPI interface\Inputs\Channel group 20 - 23\Hardware interrupt channel 23 | | | | | | | | |
| Rising (positive) edge | 0 | Falling (negative) edge | 0 | | | | | |
| MPI interface\Inputs\Channel 4 | | | | | | | | |
| Measuring type | Resistor (2-wire terminal) | Measuring range | 600 ohmsOhm | | | | | |
| MPI interface\MPI address\Interface networked with | | | | | | | | |
| Subnet: | Not networked | | | | | | | |
| MPI interface\MPI address\Parameters | | | | | | | | |
| Address: | 2 | Highest address: | 31 | | | | | |
| Transmission speed: | 187.5 kbps | | | | | | | |
| MPI interface\I/O addresses\Input addresses | | | | | | | | |
| Start address | 0 | End address | 2 | | | | | |
| Process image | OB1-PI | Interrupt OB number | 40 | | | | | |
| MPI interface\I/O addresses\Output addresses | | | | | | | | |
| Start address | 0 | End address | 1 | | | | | |
| Process image | OB1-PI | | | | | | | |
| MPI interface\Channel 0 | | | | | | | | |
| Operating mode | Not configured | | | | | | | |
| MPI interface\Outputs\Output 0 | | | | | | | | |
| Output type | Voltage | Output range | +/- 10V | | | | | |
| MPI interface\Outputs\Output 1 | | | | | | | | |
| Output type | Voltage | Output range | +/- 10V | | | | | |
| MPI interface\Channel 1 | | | | | | | | |
| Operating mode | Not configured | | | | | | | |
| MPI interface\Channel 2 | | | | | | | | |
| Operating mode | Not configured | | | | | | | |
| IO address overview | | | | | | | | |
| outputs | true | inputs | true | | | | | |
| outputs | true | outputs | true | | | | | |
| Type | AddrFrom | AddrTo | Module | PIP | DP | PN | Rack | Slot |
| true | true | true | true | true | true | true | true | true |
| Startup | | | | | | | | |
| Startup if preset configuration does not match actual configuration | True | | Startup after POWER ON | Warm restart | | | | |
| Startup\Monitoring time for | | | | | | | | |
| Ready message from modules | 650x 100 ms | | Parameter transfer to modules | 100x 100 ms | | | | |
| Cycle | | | | | | | | |
| Cycle monitoring time | 150ms | | Cycle load due to communication | 20% | | | | |
| Size of the process image input: | 128 | | Size of the process image output: | 128 | | | | |
| OB85 call if I/O access error occurs | No OB85 call | | | | | | | |
| Clock memory | | | | | | | | |
| Memory byte | 0 | | | | | | | |
| Clock memory\Clock memory | | | | | | | | |
| Clock memory | False | | | | | | | |

| | | | |
|---|-----------------|--|----------------------------|
| Totally Integrated Automation Portal | | | |
| \Time-of-day interrupts\ | | | |
| OB number | Priority | Activated | Interval |
| OB 10: | 2 | False | None |
| | | | Start time |
| | | | 1994-01-01 00:00:00.000 |
| \Time-delay interrupts\ | | | |
| OB number | Priority | Process image partition(s) | |
| OB 20: | 3 | None | |
| OB 21: | 4 | None | |
| \Cyclic interrupts\ | | | |
| OB number | Priority | Interval | Phase offset |
| OB 32: | 9 | 1000 | 0 |
| | | | ms |
| OB 33: | 10 | 500 | 0 |
| | | | ms |
| OB 34: | 11 | 200 | 0 |
| | | | ms |
| OB 35: | 12 | 100 | 0 |
| | | | ms |
| \Hardware interrupts\ | | | |
| OB number | Priority | | |
| OB 40: | 16 | | |
| \Asynchronous error interrupts\ | | | |
| OB number | Priority | | |
| OB 82: | 26 | | |
| OB 85: | 26 | | |
| OB 87: | 26 | | |
| Diagnostics system | | | |
| Number of alarms in the diagnostics buffer | 10 | | |
| Diagnostics system\Report cause of STOP | | | |
| Report cause of STOP | True | | |
| System diagnostics\General | | | |
| Activate system diagnostics for this PLC | False | | |
| Time of day | | | |
| Correction factor | 0ms | | |
| Time of day\Synchronization on PLC | | | |
| Type of synchronization | None | Time interval | None |
| Time of day\Synchronization on MPI | | | |
| Type of synchronization | None | Time interval | None |
| Retentive memory\ | | | |
| Number of memory bytes starting at MB 0 | 16 | Number of S7 timers starting at T 0 | 0 |
| Number of S7 counters starting at C 0 | 8 | | |
| Protection\ | | | |
| Level of protection | No protection | | |
| Protection\ \Can be canceled with password | | | |
| Can be canceled with password | False | | |
| Protection\Password for read/write access | | | |
| Password | •••••• | Confirm password | •••••• |
| Anchor (ParameterCommunicationMenu) | | | |
| The TreeNode ParameterCommunicationMenu was not filled by some ACF | | | |
| | | | |

Totally Integrated
Automation Portal

Anchor (AddressesOverviewMenu)

The AddressesOver-
viewMenu was not fil-
led by some ACF

Blikani [CPU 313C] / Program blocks

CYC_INT3 [OB33]

CYC_INT3 Properties

General

| | | | | | |
|-----------------|----------|---------------|----|-------------|----|
| Name | CYC_INT3 | Number | 33 | Type | OB |
| Language | STL | | | | |

Information

| | | | | | |
|---------------|--------------------|----------------|-----|------------------------|--|
| Title | "Cyclic Interrupt" | Author | | Comment | Časově spouštěný blok OB33. Perioda spuštění bloku 500 ms. |
| Family | | Version | 0.1 | User-defined ID | |

| Name | Data type | Offset | Comment |
|-----------------|---------------|--------|---|
| ▼ Temp | | | |
| OB33_EV_CLASS | Byte | 0.0 | Bits 0-3 = 1 (Coming event), Bits 4-7 = 1 (Event class 1) |
| OB33_STRT_INF | Byte | 1.0 | 16#34 (OB 33 has started) |
| OB33_PRIORITY | Byte | 2.0 | Priority of OB Execution |
| OB33_OB_NUMBR | Byte | 3.0 | 33 (Organization block 33, OB33) |
| OB33_RESERVED_1 | Byte | 4.0 | Reserved for system |
| OB33_RESERVED_2 | Byte | 5.0 | Reserved for system |
| OB33_PHS_OFFSET | Int | 6.0 | Phase offset (integer, milliseconds) |
| OB33_RESERVED_3 | Int | 8.0 | Reserved for system |
| OB33_EXC_FREQ | Int | 10.0 | Frequency of execution (msec) |
| OB33_DATE_TIME | Date_And_Time | 12.0 | Date and time OB33 started |

Network 1:

```
0001      CALL    "Block_1"
```

| Symbol | Address | Type | Comment |
|-----------|---------|----------|---------|
| "Block_1" | %FC1 | Block_FC | |

Blikani [CPU 313C] / Program blocks

Block_1 [FC1]

Block_1 Properties

General

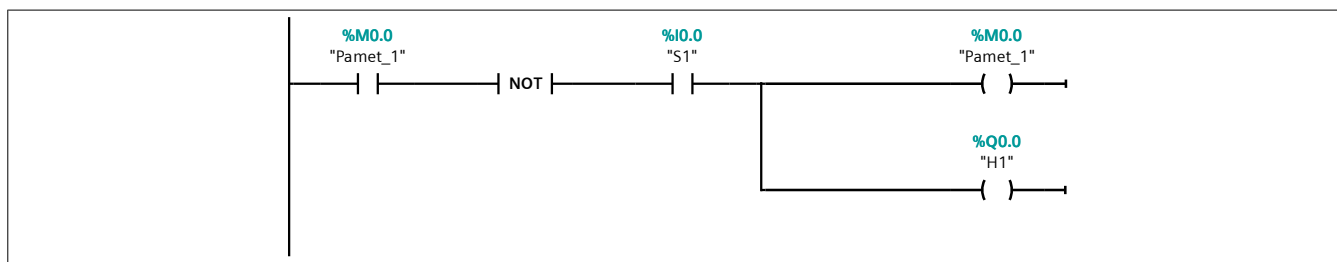
| | | | | | |
|-----------------|---------|---------------|---|-------------|----|
| Name | Block_1 | Number | 1 | Type | FC |
| Language | LAD | | | | |

Information

| | | | | | |
|---------------|--|----------------|-----|------------------------|--|
| Title | | Author | | Comment | Přis stiknutí tlačítka S1 se rozblíká žárovka H1. Využívá časového zápisu do paměťového místa M0.0 a jeho negace při dalším spuštění. Svícení je podmíněné stisknutím tlačítka S1. Perioda je nastavena systémově v HW procesu OB33. |
| Family | | Version | 0.1 | User-defined ID | |

| Name | Data type | Offset | Comment |
|----------|-----------|--------|---------|
| Input | | | |
| Output | | | |
| InOut | | | |
| Temp | | | |
| ▼ Return | | | |
| Block_1 | Void | | |

Network 1:



| Symbol | Address | Type | Comment |
|-----------|---------|------|--------------------------------------|
| "Pamet_1" | %M0.0 | Bool | Paměťové místo M0.0 |
| "S1" | %I0.0 | Bool | Čtení stavu vstupu I0.0 tlačítko S1. |
| "H1" | %Q0.0 | Bool | Zápis na výstup Q0.0 žárovka H1 |




Blikani [CPU 313C]

Technology objects

This folder is empty.

Blikani [CPU 313C] / PLC tags / Default tag table [3]

PLC tags

| PLC tags | | | | | | | |
|---|-----------|---------|--------|----------------|---------------------|--------------------------------------|--|
| Name | Data type | Address | Retain | Visible in HMI | Accessible from HMI | Comment | |
|  S1 | Bool | %I0.0 | | True | True | Čtení stavu vstupu I0.0 tlačítko S1. | |
|  H1 | Bool | %Q0.0 | | True | True | Zápis na výstup Q0.0 žárovka H1 | |
|  Pamet_1 | Bool | %M0.0 | | True | True | Paměťové místo M0.0 | |

Blikani [CPU 313C] / PLC tags / Default tag table [3]

User constants

User constants

| Name | Data type | Value | Comment |
|------|-----------|-------|---------|
|------|-----------|-------|---------|

Blikani [CPU 313C]

PLC data types

This folder is empty.

Blikani [CPU 313C] / Watch and force tables

Force table

| Name | Address | Display format | Force value | Comment |
|------|---------|----------------|-------------|---------|
|------|---------|----------------|-------------|---------|

Blikani [CPU 313C] / PLC alarms

PLC alarms

PLC alarms

no entries

Blikani [CPU 313C] / PLC alarms

User diagnostics alarms

User diagnostics alarms

no entries

Blikani [CPU 313C] / PLC alarms

System diagnostics alarms

System diagnostics alarms

no entries

Blikani [CPU 313C]

Text lists

This folder is empty.

Blikani [CPU 313C] / Local modules

CP 343-2_1 [CP 343-2]

CP 343-2_1

General

| | | | |
|----------------|------------|---------------|-----------|
| Name | CP 343-2_1 | Author | student06 |
| Comment | | Rack | 0 |
| Slot | 4 | | |

General/Catalog information

| | | | |
|--------------------------|---------------------|-------------------------|--|
| Short designation | CP 343-2 | Description | Firmware V3.0/V3.1. Basic module for AS-i attachment. Support of AS-i A/B slaves and AS-i-7.3/7.4 analog slaves. |
| Order number | 6GK7 343-2AH01-0XA0 | Firmware version | V3.1 |

I/O addresses\Input addresses

| | | | |
|----------------------|------|--------------------|-----|
| Start address | 256 | End address | 271 |
| Process image | None | | |

I/O addresses\Output addresses

| | | | |
|----------------------|------|--------------------|-----|
| Start address | 256 | End address | 271 |
| Process image | None | | |

Anchor (AsiCMAAddressesOverviewMenu)

| I address | O address | AS-i address |
|----------------|----------------|--------------|
| | | 0 |
| 256.0 ...256.3 | 256.0 ...256.3 | 1A |
| 257.4 ...257.7 | 257.4 ...257.7 | 2A |
| 257.0 ...257.3 | 257.0 ...257.3 | 3A |
| 258.4 ...258.7 | 258.4 ...258.7 | 4A |
| 258.0 ...258.3 | 258.0 ...258.3 | 5A |
| 259.4 ...259.7 | 259.4 ...259.7 | 6A |
| 259.0 ...259.3 | 259.0 ...259.3 | 7A |
| 260.4 ...260.7 | 260.4 ...260.7 | 8A |
| 260.0 ...260.3 | 260.0 ...260.3 | 9A |
| 261.4 ...261.7 | 261.4 ...261.7 | 10A |
| 261.0 ...261.3 | 261.0 ...261.3 | 11A |
| 262.4 ...262.7 | 262.4 ...262.7 | 12A |
| 262.0 ...262.3 | 262.0 ...262.3 | 13A |
| 263.4 ...263.7 | 263.4 ...263.7 | 14A |
| 263.0 ...263.3 | 263.0 ...263.3 | 15A |
| 264.4 ...264.7 | 264.4 ...264.7 | 16A |
| 264.0 ...264.3 | 264.0 ...264.3 | 17A |
| 265.4 ...265.7 | 265.4 ...265.7 | 18A |
| 265.0 ...265.3 | 265.0 ...265.3 | 19A |
| 266.4 ...266.7 | 266.4 ...266.7 | 20A |
| 266.0 ...266.3 | 266.0 ...266.3 | 21A |
| 267.4 ...267.7 | 267.4 ...267.7 | 22A |
| 267.0 ...267.3 | 267.0 ...267.3 | 23A |
| 268.4 ...268.7 | 268.4 ...268.7 | 24A |
| 268.0 ...268.3 | 268.0 ...268.3 | 25A |
| 269.4 ...269.7 | 269.4 ...269.7 | 26A |
| 269.0 ...269.3 | 269.0 ...269.3 | 27A |
| 270.4 ...270.7 | 270.4 ...270.7 | 28A |
| 270.0 ...270.3 | 270.0 ...270.3 | 29A |
| 271.4 ...271.7 | 271.4 ...271.7 | 30A |
| 271.0 ...271.3 | 271.0 ...271.3 | 31A |