

FB110 - <offline>

"FB\_T110"

**Name:**

**Family:**

**Author:** Hlozek

**Version:** 0.1

**Block version:** 2

**Time stamp Code:** 04/14/2009 04:27:40 PM

**Interface:** 04/14/2009 04:27:40 PM

**Lengths (block/logic/data):** 03002 02406 00098

Name	Data Type	Address	Initial Value	Comment
IN		0.0		
Vstupni_adresa	Int	0.0	256	Vstupni adresa
Vystupni_adresa	Int	2.0	256	Vystupni adresa
ONOFF1	Bool	4.0	FALSE	ON/OFF1
OFF2	Bool	4.1	TRUE	OFF2
OFF3	Bool	4.2	TRUE	OFF3
Enable_operation	Bool	4.3	TRUE	Enable operation
EPOS_reject	Bool	4.4	FALSE	EPOS reject traversing task
EPOS_stop	Bool	4.5	FALSE	EPOS intermediate stop
EPOS_activate	Bool	4.6	FALSE	EPOS activate traversing task
Ack_fault	Bool	4.7	FALSE	Acknowledge faults
EPOS_jog_1	Bool	5.0	FALSE	EPOS jog 1 signal source
EPOS_jog_2	Bool	5.1	FALSE	EPOS jog 2 signal source
Master_PLC	Bool	5.2	TRUE	Master ctrl by PLC
EPOS_start	Bool	5.3	FALSE	EPOS referencing start
EPOS_bit_0	Bool	5.4	FALSE	EPOS traversing block selection, bit 0
EPOS_bit_1	Bool	5.5	FALSE	EPOS traversing block selection, bit 1

Name	Data Type	Address	Initial Value	Comment
EPOS_bit_2	Bool	5.6	FALSE	EPOS traversing block selection, bit 2
EPOS_bit_3	Bool	5.7	FALSE	EPOS traversing block selection, bit 3
EPOS_bit_4	Bool	6.0	FALSE	EPOS traversing block selection, bit 4
EPOS_bit_5	Bool	6.1	FALSE	EPOS traversing block selection, bit 5
EPOS_direct	Bool	6.2	FALSE	EPOS direct setpoint input/MDI selection
EPOS_tracking	Bool	6.3	FALSE	EPOS select tracking mode
EPOS_set	Bool	6.4	FALSE	EPOS set reference point
EPOS_search	Bool	6.5	FALSE	EPOS search for reference, reference cam
EPOS_increment	Bool	6.6	FALSE	EPOS jogging incremental
DDS_bit_0	Bool	6.7	FALSE	Drive data set selection DDS bit 0
DDS_bit_1	Bool	7.0	FALSE	Drive data set selection DDS bit 1
DDS_bit_2	Bool	7.1	FALSE	Drive data set selection DDS bit 2
DDS_bit_3	Bool	7.2	FALSE	Drive data set selection DDS bit 3
DDS_bit_4	Bool	7.3	FALSE	Drive data set selection DDS bit 4
Parking_axes	Bool	7.4	FALSE	Parking axes selection
Activate_travel	Bool	7.5	FALSE	Activates travel to a fixed stop

Name	Data Type	Address	Initial Value	Comment
Motor_changeover	Bool	7.6	FALSE	Motor changeover, feedback signal
Master_bit_0	Bool	7.7	FALSE	Master sign of life bit 0
Master_bit_1	Bool	8.0	FALSE	Master sign of life bit 1
Master_bit_2	Bool	8.1	FALSE	Master sign of life bit 2
Master_bit_3	Bool	8.2	FALSE	Master sign of life bit 3
Velocity_override	Real	10.0	0.000000e+000	Override pro rychlost (100 = 100%)
Target_position_IN	DInt	14.0	L#0	Vzdalenost k ujeti (v LU)
Velocity	Real	18.0	0.000000e+000	Rychlost menice v nasobcich 1000 LU/min (p2571)
Acc_override	Real	22.0	0.000000e+000	Override pro zrychleni
Dec_override	Real	26.0	0.000000e+000	Override pro zpomaleni
MDI_mode_set	Int	30.0	0	Nastaveni MDI Mode (0=abs, 1=rel, 2=abs_pos, 3=abs_rel)
OUT		0.0		
Ready_to_power_up	Bool	32.0	FALSE	Ready to power up
Ready	Bool	32.1	FALSE	Ready
Operation_enabled	Bool	32.2	FALSE	Operation enabled
Fault_present	Bool	32.3	FALSE	Fault present
No_coasting_active	Bool	32.4	FALSE	No coasting active (1=OFF2 neaktivni, 0=OFF2 aktivni)
No_Quick_stop_active	Bool	32.5	FALSE	No Quick Stop active (1=OFF3 neaktivni, 0=OFF3 aktivni)
Power_on_inhibit	Bool	32.6	FALSE	Power-on inhibit active
Alarm_present	Bool	32.7	FALSE	Alarm present

Name	Data Type	Address	Initial Value	Comment
Error_in_tolerance	Bool	33.0	FALSE	Following error in tolerance (1=ne, 0=ano)
Control_requested	Bool	33.1	FALSE	Control requested
Target_position	Bool	33.2	FALSE	Target position reached
Reference_point_set	Bool	33.3	FALSE	Reference point set (1=ne, 0=ano)
Traversing_activated	Bool	33.4	FALSE	Acknowledgement, traversing block activated
n_act_speed_threshold_1	Bool	33.5	FALSE	n_act  < speed threshold value 3
Traversing_bit_0	Bool	33.6	FALSE	Active traversing block, bit 0
Traversing_bit_1	Bool	33.7	FALSE	Active traversing block, bit 1
Traversing_bit_2	Bool	34.0	FALSE	Active traversing block, bit 2
Traversing_bit_3	Bool	34.1	FALSE	Active traversing block, bit 3
Traversing_bit_4	Bool	34.2	FALSE	Active traversing block, bit 4
Traversing_bit_5	Bool	34.3	FALSE	Active traversing block, bit 5
MDI_active	Bool	34.4	FALSE	MDI active
Tracking_mode	Bool	34.5	FALSE	Tracking mode active
Velocity_limiting	Bool	34.6	FALSE	Velocity limiting active
Setpoint_available	Bool	34.7	FALSE	Setpoint available
Axis_moves_forwards	Bool	35.0	FALSE	Axis moves forwards
Axis_moves_backwards	Bool	35.1	FALSE	Axis moves backwards
SW_limit_minus	Bool	35.2	FALSE	Software limit switch minus reached

Name	Data Type	Address	Initial Value	Comment
SW_limit_plus	Bool	35.3	FALSE	Software limit switch plus reached
Cam_switch_pos_1	Bool	35.4	FALSE	Position actual value <= cam switching position 1
Cam_switch_pos_2	Bool	35.5	FALSE	Position actual value <= cam switching position 2
Direct_output_1	Bool	35.6	FALSE	Direct output 1 via traversing block
Direct_output_2	Bool	35.7	FALSE	Direct output 2 via traversing block
Fixed_stop_reached	Bool	36.0	FALSE	Fixed stop reached
Fixed_stop_clamping	Bool	36.1	FALSE	Fixed stop clamping torque reached
Travel_to_fixed_stop_1	Bool	36.2	FALSE	Travel to fixed stop active
DDS_eff_bit_0	Bool	36.3	FALSE	DDS eff., bit 0
DDS_eff_bit_1	Bool	36.4	FALSE	DDS eff., bit 1
DDS_eff_bit_2	Bool	36.5	FALSE	DDS eff., bit 2
DDS_eff_bit_3	Bool	36.6	FALSE	DDS eff., bit 3
DDS_eff_bit_4	Bool	36.7	FALSE	DDS eff., bit 4
Speed_contr_set	Bool	37.0	FALSE	Speed controller set integrator value
Parking_axes_active	Bool	37.1	FALSE	Parking axis active
Travel_to_fixed_stop_2	Bool	37.2	FALSE	Travel to fixed stop active
Motor_changeover_set	Bool	37.3	FALSE	Motor data set changeover active
Slave_bit_0	Bool	37.4	FALSE	Slave sign of life bit 0

Name	Data Type	Address	Initial Value	Comment
Slave_bit_1	Bool	37.5	FALSE	Slave sign of life bit 1
Slave_bit_2	Bool	37.6	FALSE	Slave sign of life bit 2
Slave_bit_3	Bool	37.7	FALSE	Slave sign of life bit 3
Ramp_completed	Bool	38.0	FALSE	Ramp-up/ramp-down completed (1=ne, 0=ano)
Torque_utilization	Bool	38.1	FALSE	Torque utilization < torque threshold value 2 (1=ne, 0=ano)
n_act_speed_thresh_val_3	Bool	38.2	FALSE	n_act  < speed threshold value 3 (1=ne, 0=ano)
n_act_speed_thresh_val_2	Bool	38.3	FALSE	n_act  <= speed threshold value 2 (1=ne, 0=ano)
Alarm_motor_overtemp	Bool	38.4	FALSE	Alarm motor overtemperature (1=ne, 0=ano)
Alarm_pwr_unit_temp	Bool	38.5	FALSE	Alarm power unit thermal overload (1=ne, 0=ano)
Speed_deviation	Bool	38.6	FALSE	Speed setp - act val deviation in tolerance t_on (1=ne, 0=ano)
Controller_enable	Bool	38.7	FALSE	Controller enable
Drive_ready	Bool	39.0	FALSE	Drive ready (1=ne, 0=ano)
Pulses_enabled	Bool	39.1	FALSE	Pulses enabled
Ret_val_SFC14	Word	40.0	W#16#0	Navratova hodnota pri ctení dat z menice (0=OK)
Ret_val_SFC15	Word	42.0	W#16#0	Navratova hodnota při zápisu dat do menice (0=OK)
Actual_position	DInt	44.0	L#0	Aktualní poloha
IN_OUT		0.0		

Name	Data Type	Address	Initial Value	Comment
STAT		0.0		
Adresa_SFC14	Word	48.0	W#16#0	Adresa pro cteni zadana uzivatelem
Adresa_SFC15	Word	50.0	W#16#0	Adresa pro zapis zadana uzivatelem
Zesileni_override	Real	52.0	1.638400e+002	163.84 , je stejne pro vsechny override
Mode_value_0	Bool	56.0	FALSE	Hodnota 0
Mode_value_1	Bool	56.1	TRUE	Hodnota 1
Chyba	Bool	56.2	TRUE	Chyba pri zadani MDI_mode_set
Identifikace	Int	58.0	110	Cislo telegramu pro identifikaci
TEMP		0.0		
ZSW1	Array [0..15] Of Bool	0.0		Status word 1
AKTSATZ	Array [0..15] Of Bool	2.0		EPOS selected block
POS_ZSW	Array [0..15] Of Bool	4.0		EPOS status word
ZSW2	Array [0..15] Of Bool	6.0		Status word 2
MELDW	Array [0..15] Of Bool	8.0		Message word
XIST_A	DWord	10.0		Position actual value A
STW1	Array [0..15] Of Bool	14.0		Control word 1
SATZANW	Array [0..15] Of Bool	16.0		EPOS block selection
POS_STW	Array [0..15] Of Bool	18.0		EPOS control word
STW2	Array [0..15] Of Bool	20.0		Control word 2
OVERRIDE	Word	22.0		EPOS velocity override
MDI_TARPOS	DWord	24.0		MDI position
MDI_VELOC	DWord	28.0		MDI velocity
MDI_ACC	Word	32.0		MDI acceleration override
MDI_DEC	Word	34.0		MDI decelartion override
MDI_MOD	Array [0..15] Of Bool	36.0		MDI mode
Return_SFC14	Int	38.0		Navratova hodnota SFC14

Name	Data Type	Address	Initial Value	Comment
Return_SFC15	Int	40.0		Navratova hodnota SFC15
VelOver_Real	Real	42.0		Zadany override pro rychlost v Real
VelOver_DInt	DInt	46.0		Zadany override pro rychlost v Double Int
Vzdalenost	DInt	50.0		Pomocna promenna pro Target_position_IN
Velocity_Real	Real	54.0		Rychlost v Real
Velocity_DInt	DInt	58.0		Rychlost v Double Int
AccOver_Real	Real	62.0		Override pro zrychleni v Real
AccOver_DInt	DInt	66.0		Override pro zrychleni v Double Int
DecOver_Real	Real	70.0		Override pro zpomaleni v Real
DecOver_DInt	DInt	74.0		Override pro zpomaleni v Double Int
Warning_array	Array [0..15] Of Bool	78.0		Pole varovnych hlaseni

**Block: FB110   FB pro ovladani frekv. menicu Sinamics pomoci telegramu 110**

Autor: Vojtech Hlozek  
Verze: 1.0  
Datum: 7.12.2008  
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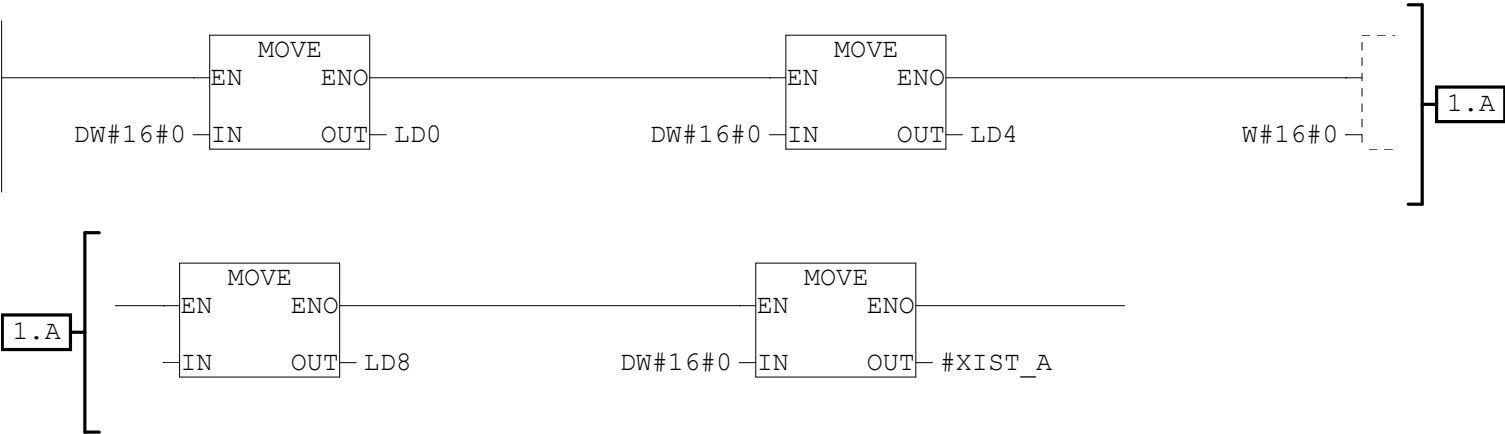
Pri pouziti tohoto FB je nutne, aby byly v CPU nahrany SFC14 a SFC15!  
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V poli Warning\_array je vyuzito 8 bitu (0. - 7.) ze 16. Lze tedy dle potreby zbyle bity pouzit pro vlastni varovna hlaseni.

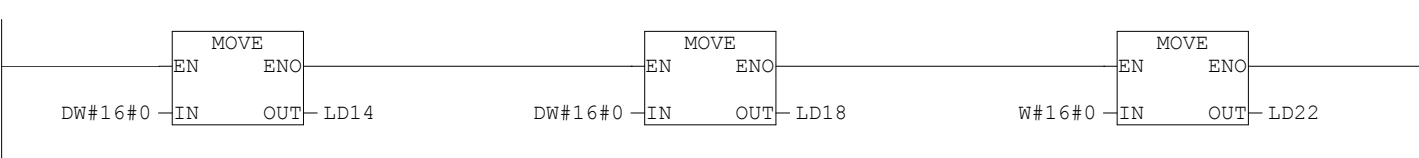
Legenda k Warning\_array:  
0.bit - chyba pri cteni dat z menice  
1.bit - chyba pri zapisu dat do menice  
2.bit - Velocity\_override zadano mimo rozsah (hodnota je ale osetrena)  
3.bit - Target\_position\_IN zadano mimo rozsah (hodnota je ale osetrena)  
4.bit - Velocity zadano mimo rozsah (hodnota je ale osetrena)  
5.bit - Acc\_override zadano mimo rozsah (hodnota je ale osetrena)  
6.bit - Dec\_override zadano mimo rozsah (hodnota je ale osetrena)  
7.bit - MDI\_mode\_set zadano mimo rozsah (hodnota je ale osetrena)



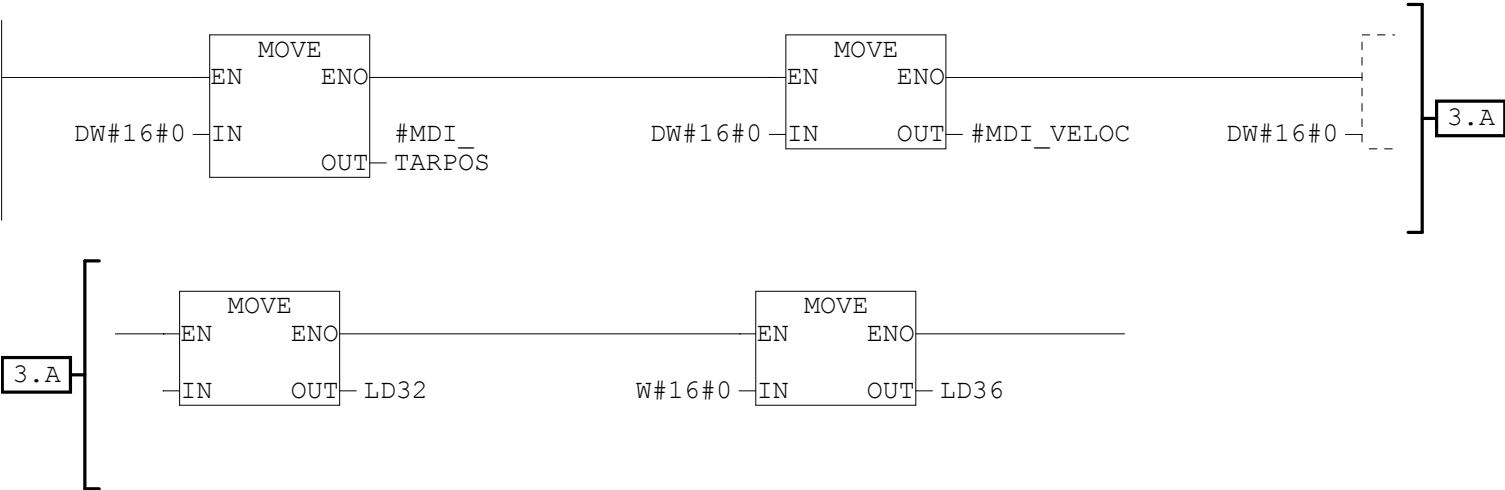
Network: 1      Vyprazdneni TEMP pro telegram jdouci z menice do CPU (7 wordu)



Network: 2      Vyprazdneni TEMP pro telegram jdouci z CPU do menice (12 wrd) 1.

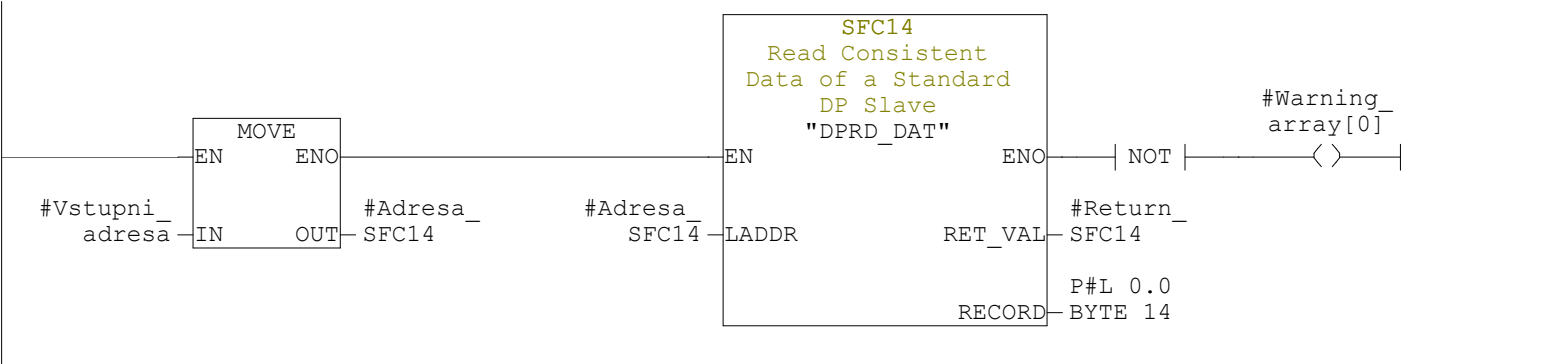


Network: 3      Vyprazdneni TEMP pro telegram jdouci z CPU do menice (12 wrd) 2.



Network: 4

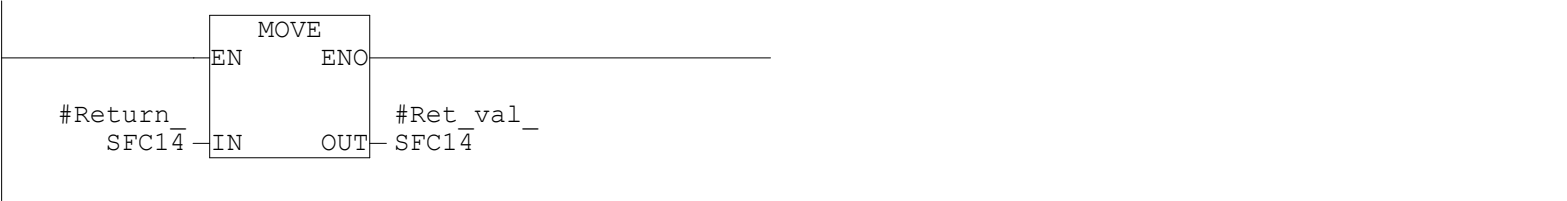
Nacteni dat z menice do CPU (TEMP)



Network: 5

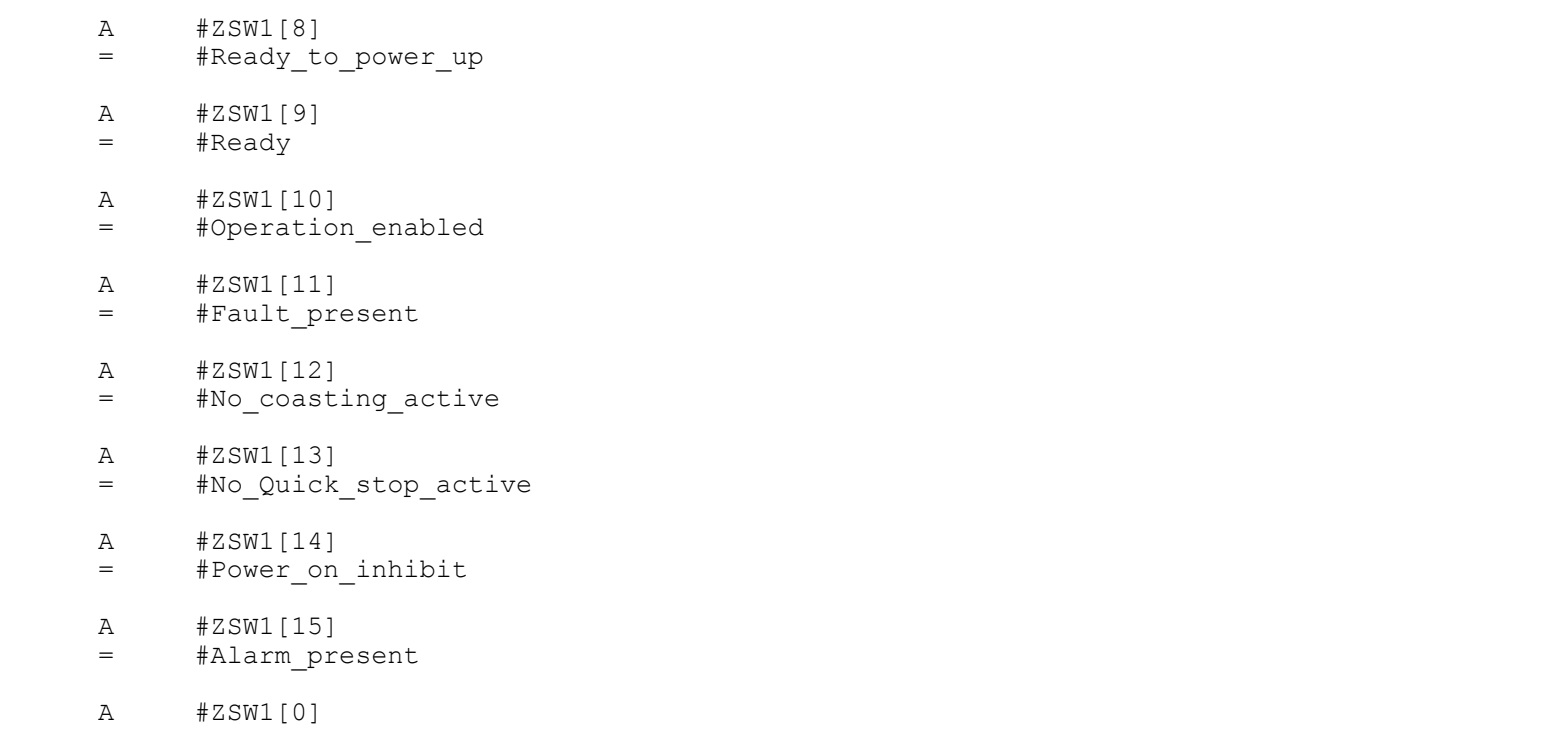
Presun navratove hodnoty SFC14 (cteni dat z menice) na vystup

OUT je 0 = presun v poradku, hexa cislo = cislo chyby



Network: 6

Presun stavovych slov (ZSW1 a ZSW2) na vystup



```
=      #Error_in_tolerance

A      #ZSW1[1]
=      #Control_requested

A      #ZSW1[2]
=      #Target_position

A      #ZSW1[3]
=      #Reference_point_set

A      #ZSW1[4]
=      #Traversing_activated

A      #ZSW1[5]
=      #n_act_speed_threshold_1
```

// u ZSW1 je 14. bit (ZSW1[6]) a 15. bit (ZSW1[7]) rezervni

```
A      #ZSW2[8]
=      #DDS_eff_bit_0

A      #ZSW2[9]
=      #DDS_eff_bit_1

A      #ZSW2[10]
=      #DDS_eff_bit_2

A      #ZSW2[11]
=      #DDS_eff_bit_3

A      #ZSW2[12]
=      #DDS_eff_bit_4
```

// u ZSW2 je 5. bit (ZSW2[13]) rezervni

```
A      #ZSW2[14]
=      #Speed_contr_set

A      #ZSW2[15]
=      #Parking_axes_active

A      #ZSW2[0]
=      #Travel_to_fixed_stop_2
```

// u ZSW2 je 9. bit (ZSW2[1]) a 10. bit (ZSW2[2]) rezervni

```
A      #ZSW2[3]
=      #Motor_changeover_set

A      #ZSW2[4]
=      #Slave_bit_0

A      #ZSW2[5]
=      #Slave_bit_1

A      #ZSW2[6]
=      #Slave_bit_2

A      #ZSW2[7]
=      #Slave_bit_3
```

Network: 7      Presun slova AKTSATZ (EPOS selected block) na vystup
--

```
A      #AKTSATZ[8]
=      #Traversing_bit_0
```

```
A      #AKTSATZ[9]
=      #Traversing_bit_1
```

```
A      #AKTSATZ[10]
=      #Traversing_bit_2
```

```
A      #AKTSATZ[11]
=      #Traversing_bit_3
```

```
A      #AKTSATZ[12]
=      #Traversing_bit_4
```

```
A      #AKTSATZ[13]
=      #Traversing_bit_5
```

// u AKTSATZ je 6. bit (ZSW2[14]) az 14. bit (ZSW2[6]) rezervni

```
A      #AKTSATZ[7]
=      #MDI_active
```

Network: 8      Presun slova POS_ZSW (EPOS status word) na vystup
---

```
A      #POS_ZSW[8]
=      #Tracking_mode
```

```
A      #POS_ZSW[9]
=      #Velocity_limiting
```

```
A      #POS_ZSW[10]
=      #Setpoint_available
```

// u POS\_ZSW je 3. bit (POS\_ZSW[11]) rezervni

```
A      #POS_ZSW[12]
=      #Axis_moves_forwards
```

```
A      #POS_ZSW[13]
=      #Axis_moves_backwards
```

```
A      #POS_ZSW[14]
=      #SW_limit_minus
```

```
A      #POS_ZSW[15]
=      #SW_limit_plus
```

```
A      #POS_ZSW[0]
=      #Cam_switch_pos_1
```

```
A      #POS_ZSW[1]
=      #Cam_switch_pos_2
```

```
A      #POS_ZSW[2]
```

```
=      #Direct_output_1

A      #POS_ZSW[3]
=      #Direct_output_2

A      #POS_ZSW[4]
=      #Fixed_stop_reached

A      #POS_ZSW[5]
=      #Fixed_stop_clamping

A      #POS_ZSW[6]
=      #Travel_to_fixed_stop_1
```

// u POS\_ZSW je 15. bit (POS\_ZSW[7]) rezervni

Network: 9	Presun slova MELDW (Message word) na vystup
------------	---

```
A      #MELDW[8]
=      #Ramp_completed

A      #MELDW[9]
=      #Torque_utilization

A      #MELDW[10]
=      #n_act_speed_thresh_val_3

A      #MELDW[11]
=      #n_act_speed_thresh_val_2
```

// u MELDW je 4. bit (MELDW[12]) a 5. bit (MELDW[13]) rezervni

```
A      #MELDW[14]
=      #Alarm_motor_overtemp

A      #MELDW[15]
=      #Alarm_pwr_unit_temp

A      #MELDW[0]
=      #Speed_deviation
```

// u MELDW je 9. bit (MELDW[1]) a 10. bit (MELDW[2]) rezervni

```
A      #MELDW[3]
=      #Controller_enable

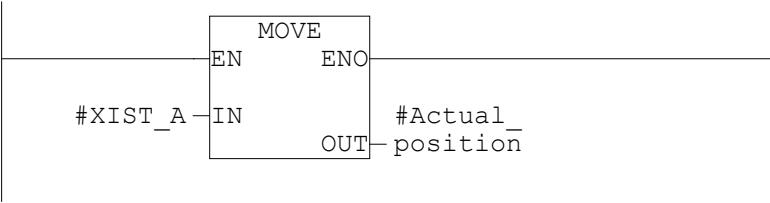
A      #MELDW[4]
=      #Drive_ready

A      #MELDW[5]
=      #Pulses_enabled
```

// u MELDW je 14. bit (MELDW[6]) a 15. bit (MELDW[7]) rezervni

Network: 10      Prevod DW XIST\_A na aktualni polohu (v LU)

Zaporna hodnota je jizda na opacnou stranu.  
Normalizace: 1 hex = 1 LU.

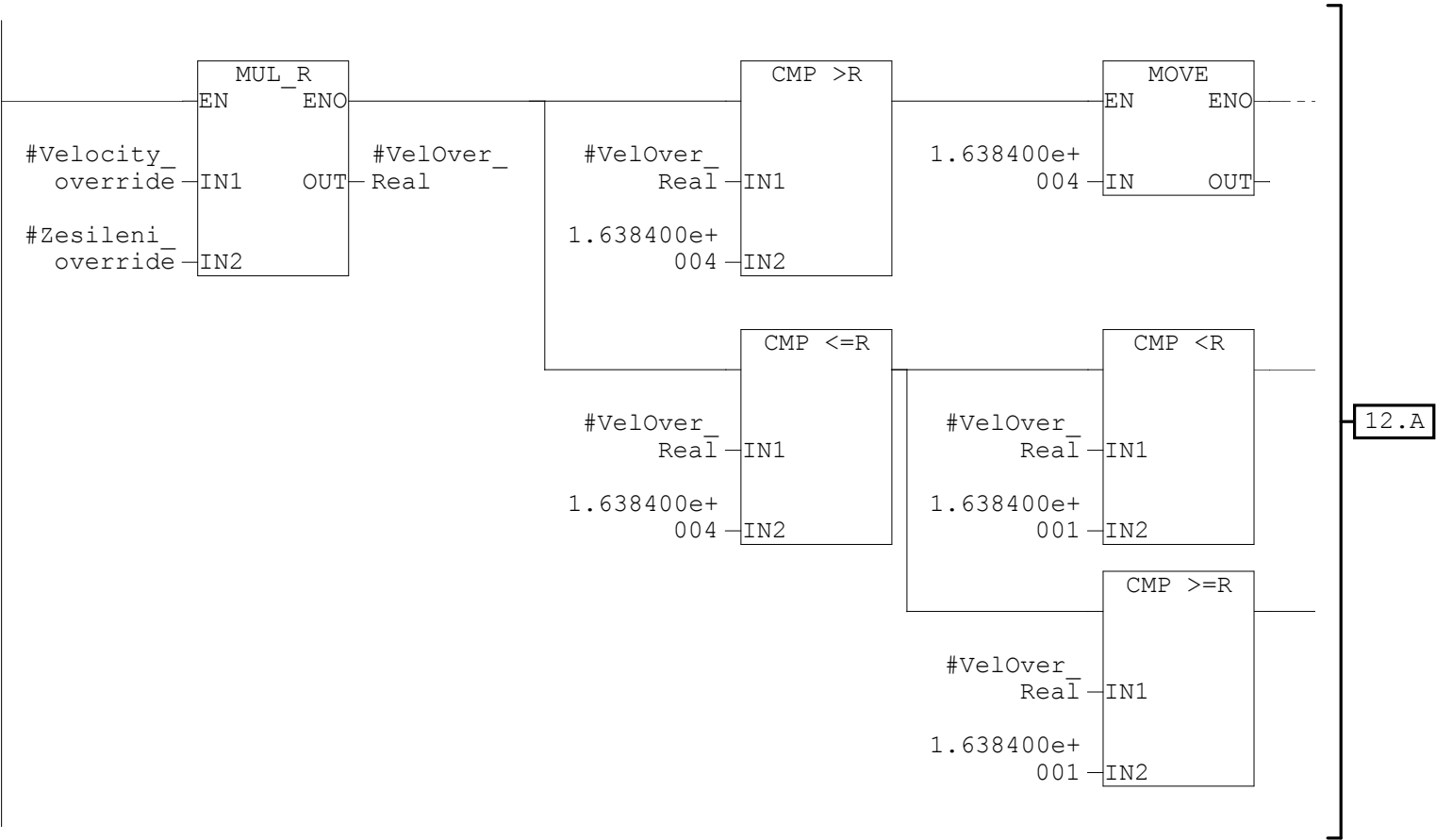


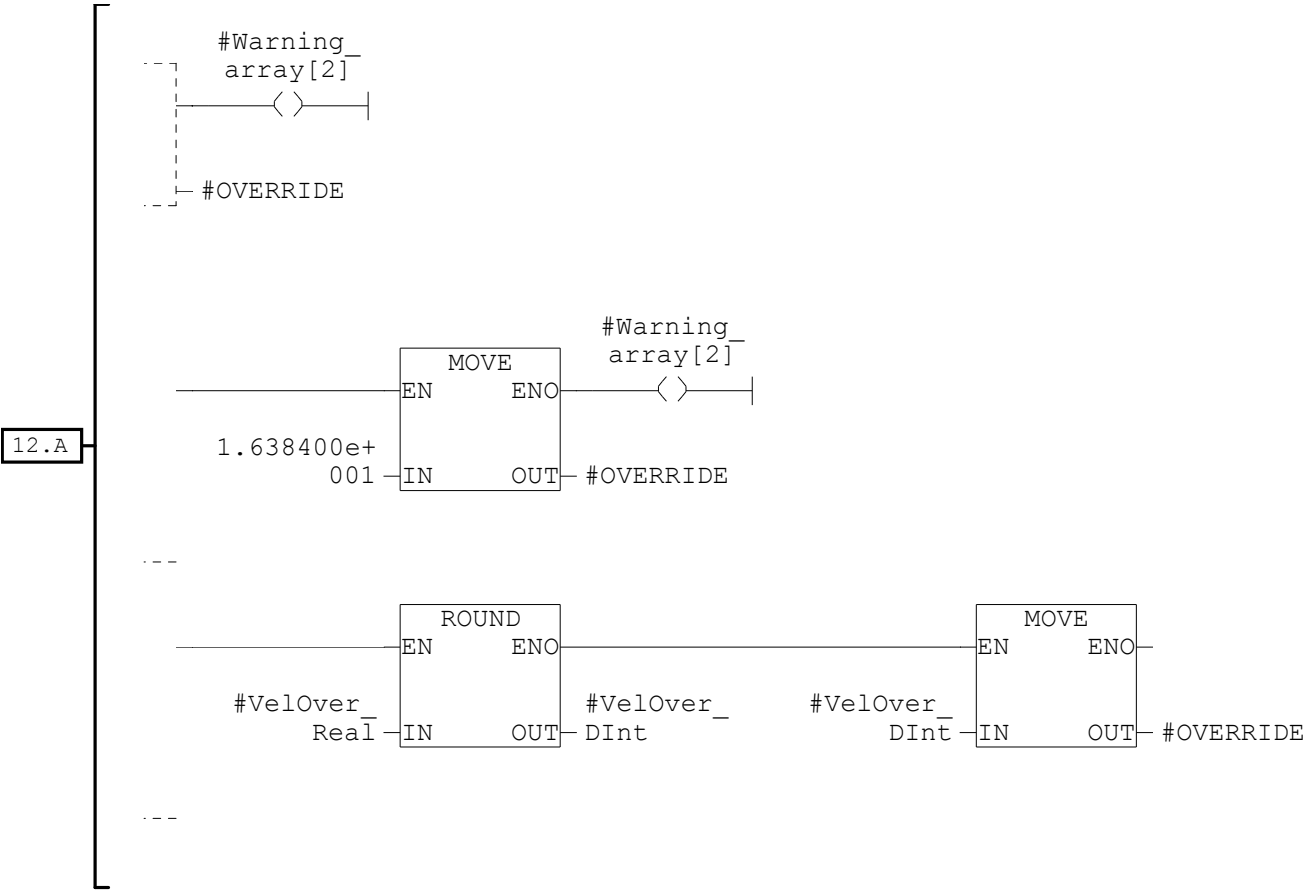
Network: 11      Zde konci prace se stavovymi hodnotami a zacina s ridicimi!!!



Network: 12      Nastaveni override pro rychlost (OVERRIDE)

Regulovatelne v rozsahu 0.1 - 100%.  
Normalizace: 4000 hex = 100%.

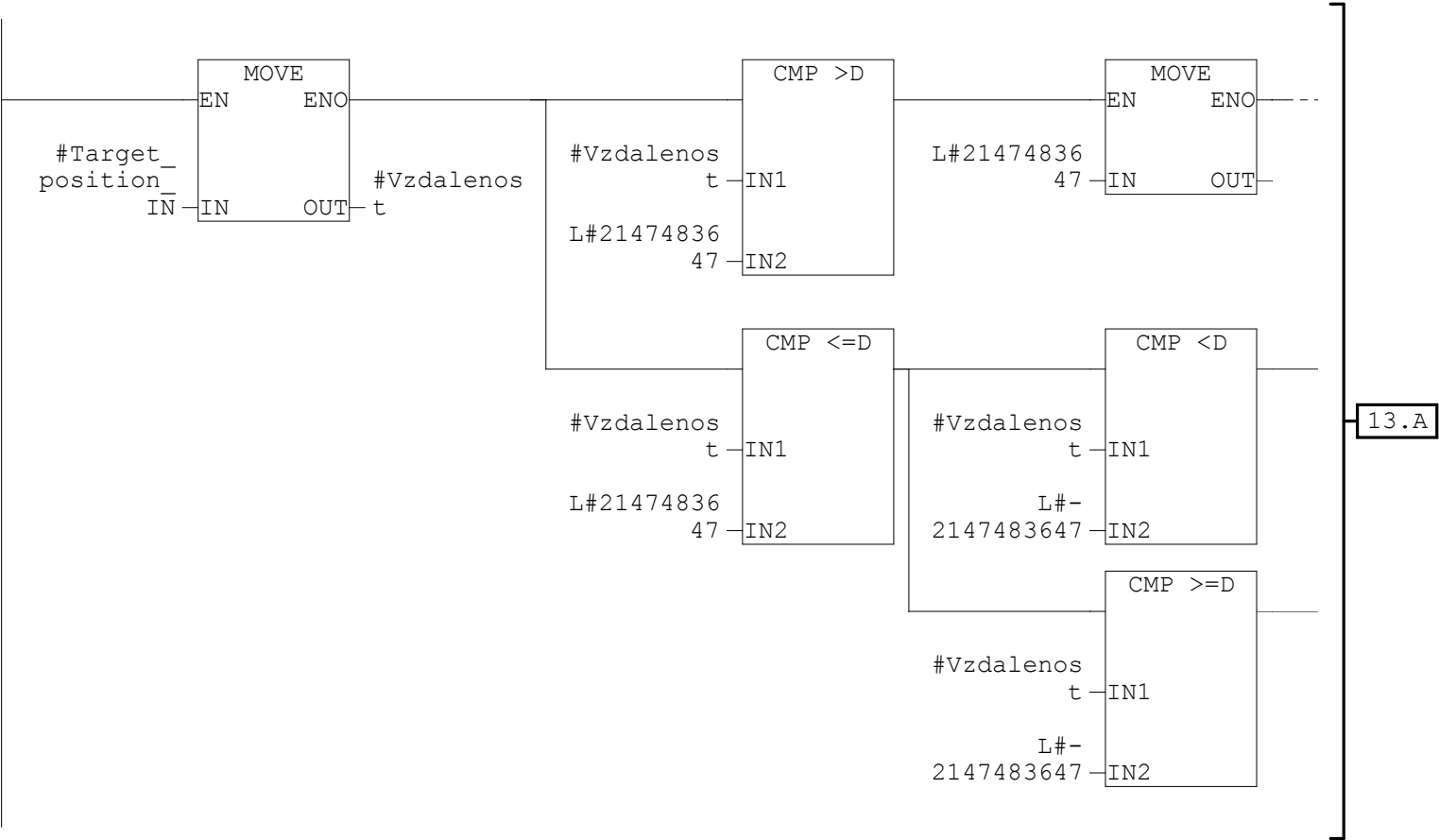


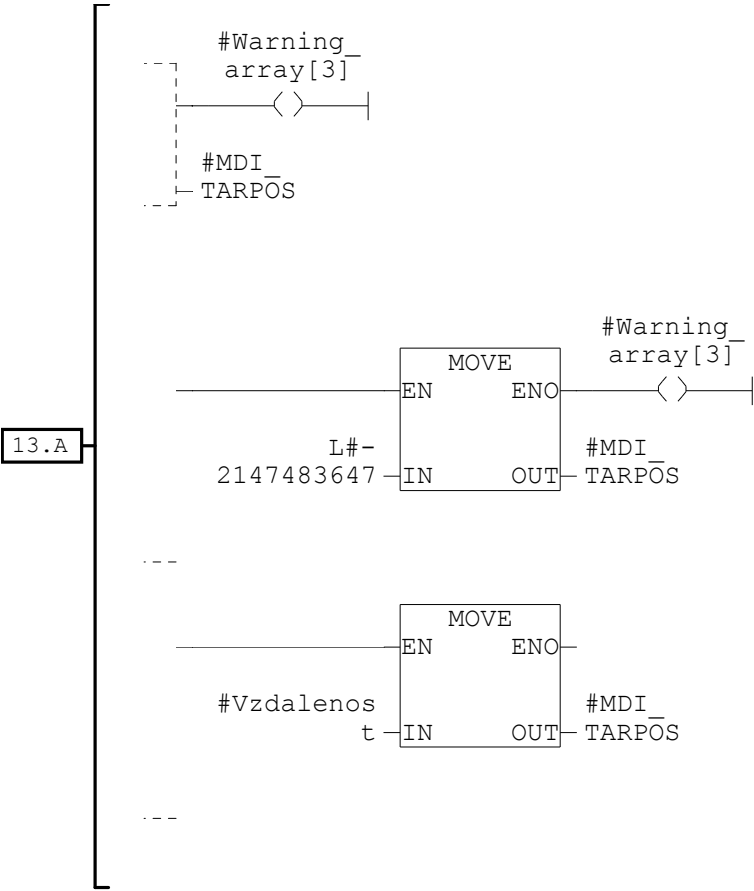




Network: 13      Nastaveni vzdalenosti (MDI\_TARPOS), ktera se ma ujet (v LU)

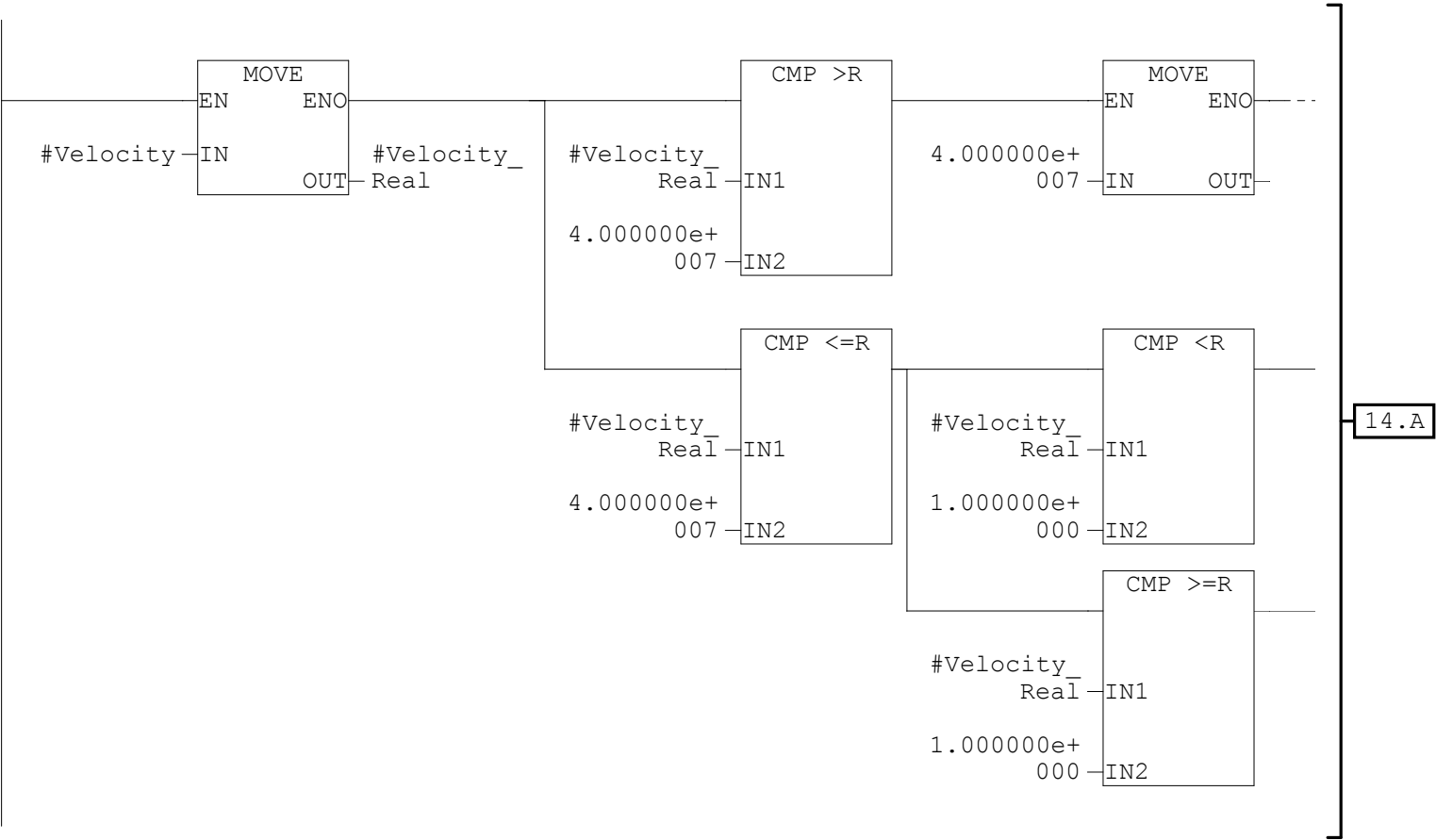
Rozsah nastaveni je od -2147483647 po 2147483647. Normalizace: 1 hex = 1 LU.

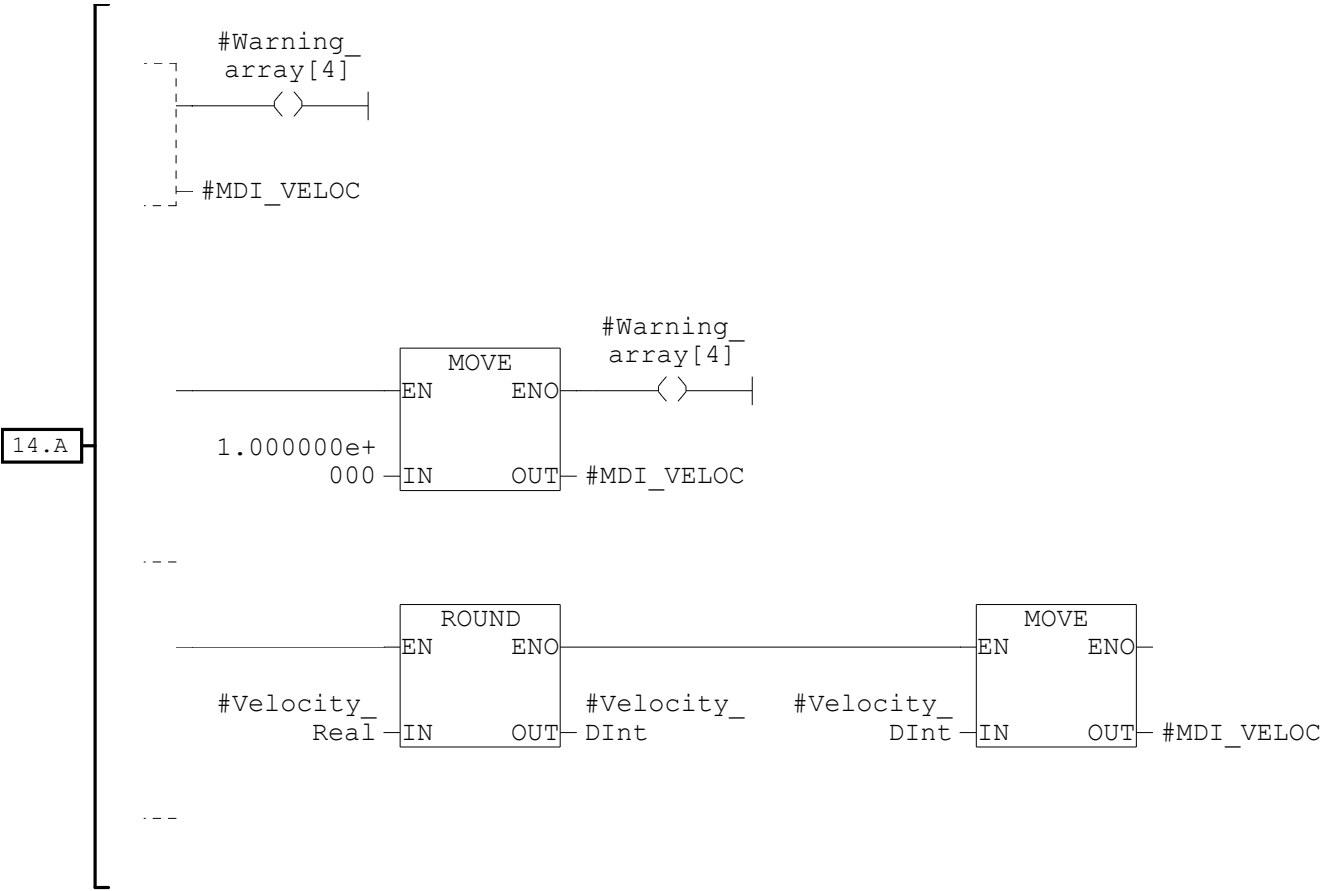




Network: 14      Nastaveni rychlosti (MDI\_VELOC) menice v nasobcich 1000 LU/min

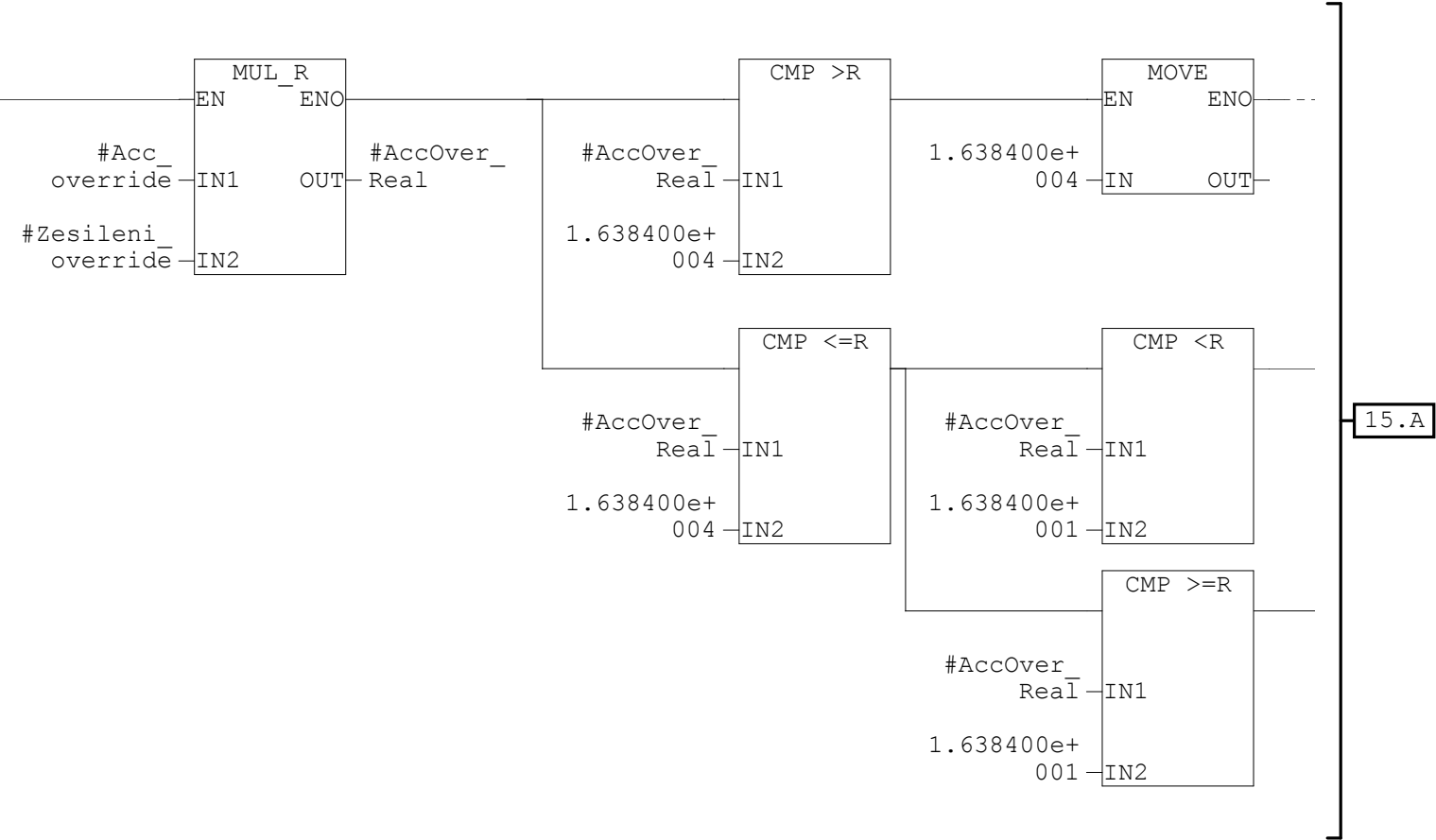
Regulovatelna v rozmezi 1 - 40000000. Co je ale maximalni rychlost, urcuje nastavitelny parametr p2571!  
Normalizace: 1 hex = 1000 LU/min.

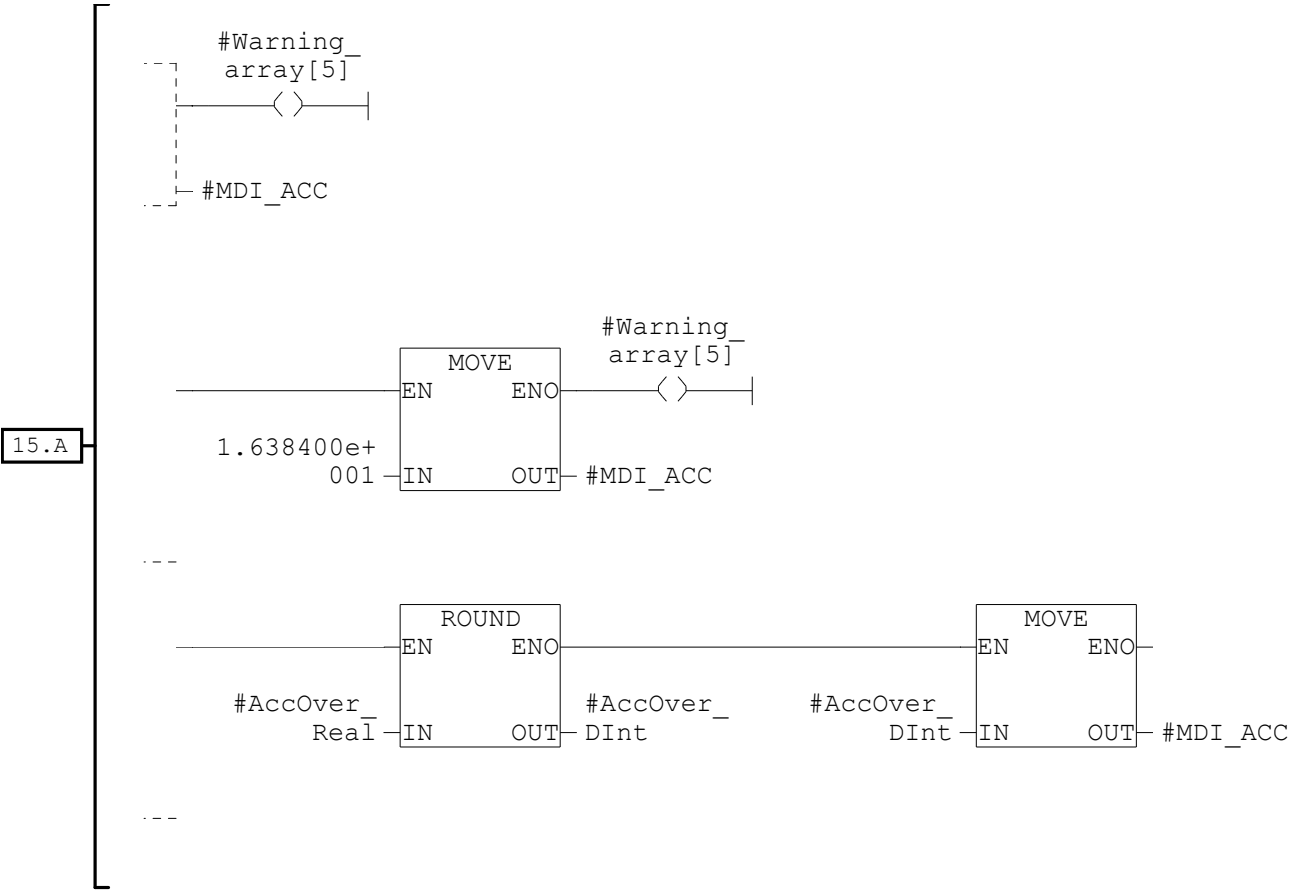




Network: 15      Nastaveni override pro zrychleni (MDI\_ACC)

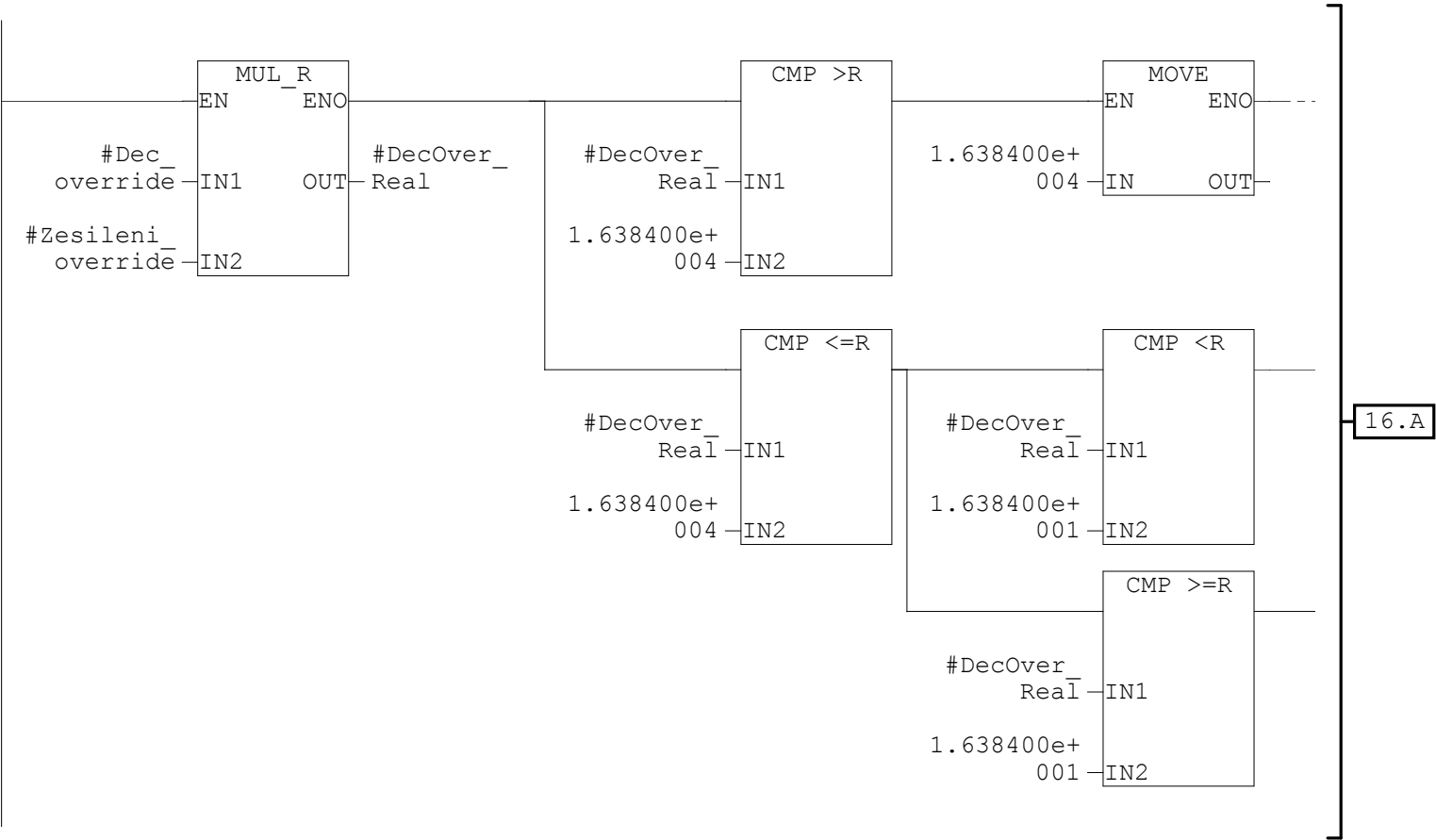
Regulovatelne v rozsahu 0.1 - 100%.  
Normalizace: 4000 hex = 100%.

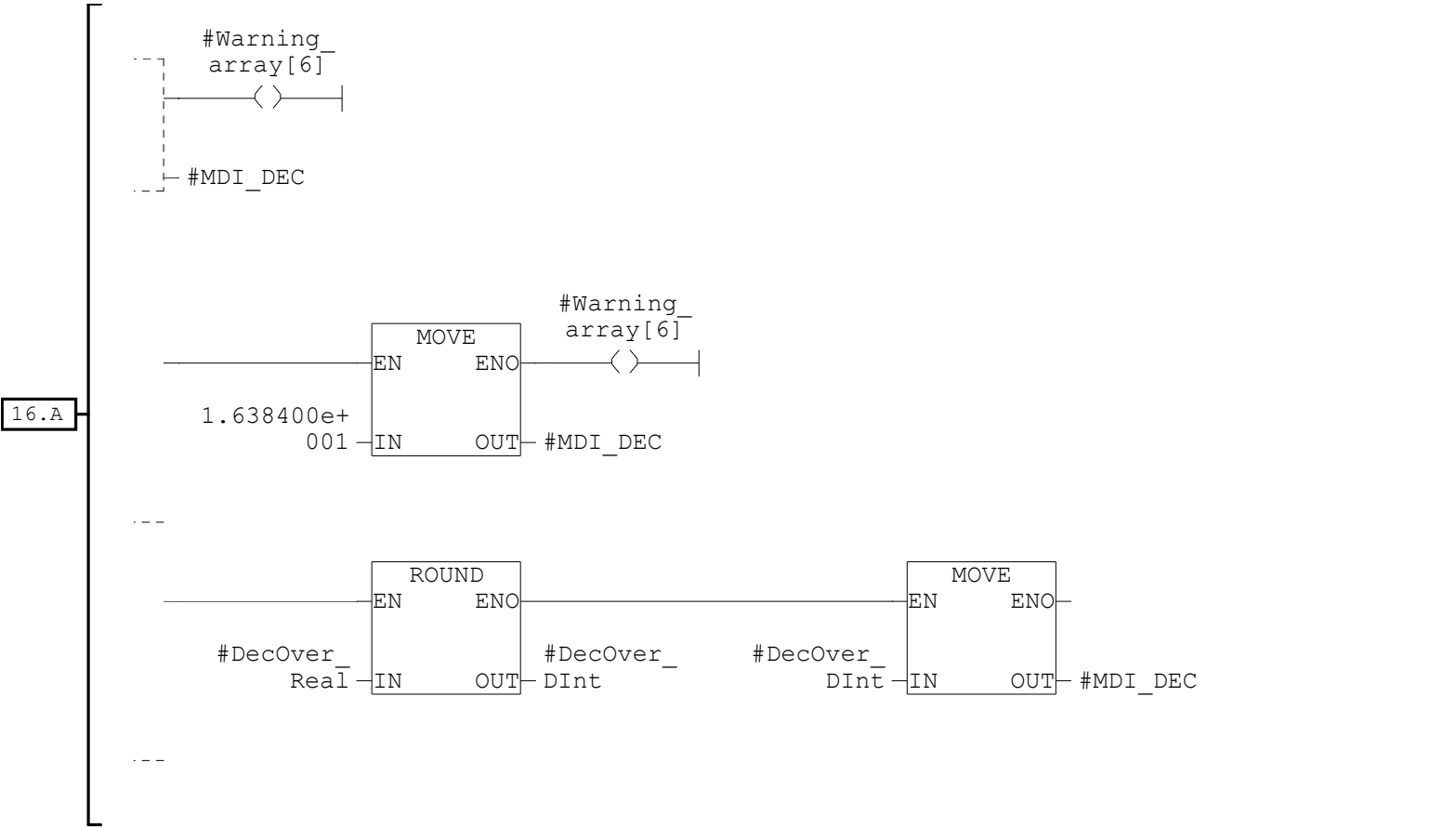




Network: 16      Nastaveni override pro zpomaleni (MDI\_DEC)

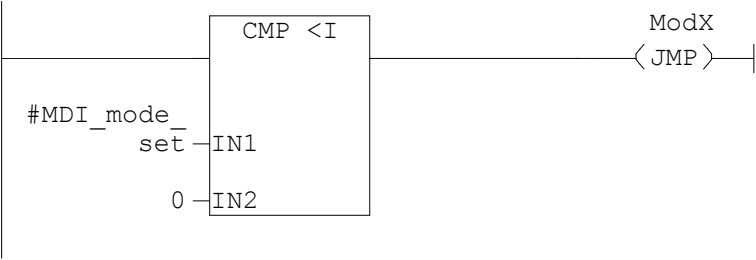
Regulovatelne v rozsahu 0.1 - 100%.  
Normalizace: 4000 hex = 100%.





Network: 17 MDI\_mode\_set < 0

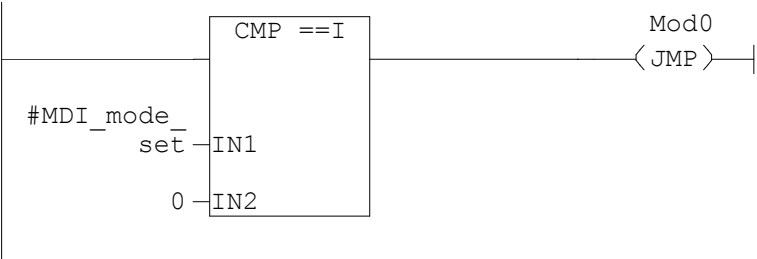
Pokud je hodnota volby (0 - 3) zadana spatne (mensi nez 0 nebo vetsi nez 3), je pouzito volby 0 (absolutni mod).





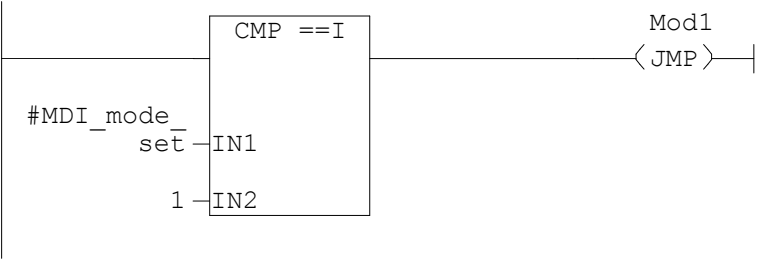
Network: 18MDI\_mode\_set = 0

Absolutni mod



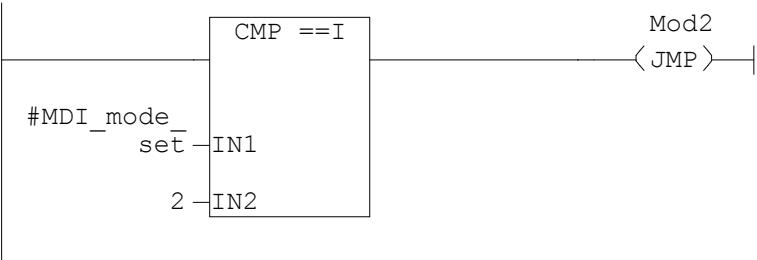
Network: 19MDI\_mode\_set = 1

Relativni mod



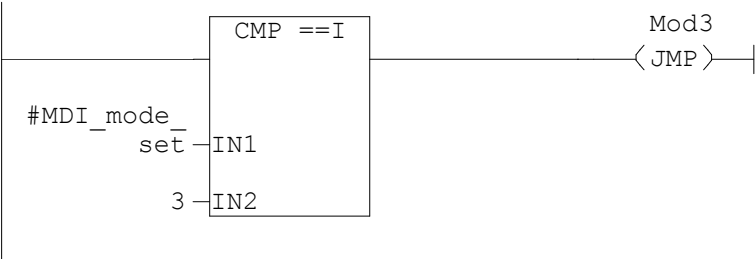
Network: 20MDI\_mode\_set = 2

Absolutni pozitivni mod



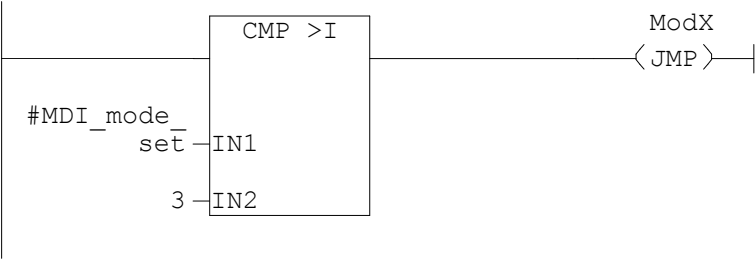
Network: 21        MDI\_mode\_set = 3

Absolutni negativni mod



Network: 22        MDI\_mode\_set > 3

Absolutni mod



Network: 23        Zvoleni jednoho ze ctyr MDI\_mode a vypis slova MDI\_MOD na vstup

Aby nedoslo k prepsani aktualni volby nasledujici, je pouzit nepodmineny skok do dalsiho networku.

ModX: A        #Mode\_value\_0

=        #MDI\_MOD[12]

A        #Mode\_value\_0

=        #MDI\_MOD[13]

A        #Chyba

=        #Warning\_array[7]

JU        Next

Mod0: A        #Mode\_value\_0

=        #MDI\_MOD[12]

A        #Mode\_value\_0

=        #MDI\_MOD[13]

JU        Next

Mod1: A        #Mode\_value\_1

=        #MDI\_MOD[12]

A        #Mode\_value\_0

=        #MDI\_MOD[13]

JU        Next

Mod2: A        #Mode\_value\_0

=        #MDI\_MOD[12]

```
A      #Mode_value_1
=      #MDI_MOD[13]
JU     Next
```

```
Mod3: A      #Mode_value_1
=      #MDI_MOD[12]
A      #Mode_value_1
=      #MDI_MOD[13]
JU     Next
```

```
// u MDI_MOD je 0. bit (MDI_MOD[8]) az 3. bit (MDI_MOD[11]) rezervni
// u MDI_MOD je 6. bit (MDI_MOD[14]) az 15. bit (MDI_MOD[7]) rezervni
```

Network: 24	Presun ridicich slov (STW1 a STW2) na vstup
-------------	---

```
Next: A      #ONOFF1
=      #STW1[8]

A      #OFF2
=      #STW1[9]

A      #OFF3
=      #STW1[10]

A      #Enable_operation
=      #STW1[11]

A      #EPOS_reject
=      #STW1[12]

A      #EPOS_stop
=      #STW1[13]

A      #EPOS_activate
=      #STW1[14]

A      #Ack_fault
=      #STW1[15]

A      #EPOS_jog_1
=      #STW1[0]

A      #EPOS_jog_2
=      #STW1[1]

A      #Master_PLC
=      #STW1[2]

A      #EPOS_start
=      #STW1[3]
```

```
// u STW1 je 12. bit (STW1[4]) az 15. bit (STW1[7]) rezervni
```

```
A      #DDS_bit_0
=      #STW2[8]

A      #DDS_bit_1
=      #STW2[9]

A      #DDS_bit_2
=      #STW2[10]
```

```
A      #DDS_bit_3
=      #STW2[11]
```

```
A      #DDS_bit_4
=      #STW2[12]
```

// u STW2 je 5. bit (STW2[13]) a 6. bit (STW1[14]) rezervni

```
A      #Parking_axes
=      #STW2[15]
```

```
A      #Activate_travel
=      #STW2[0]
```

// u STW2 je 9. bit (STW2[1]) a 10. bit (STW2[2]) rezervni

```
A      #Motor_changeover
=      #STW2[3]
```

```
A      #Master_bit_0
=      #STW2[4]
```

```
A      #Master_bit_1
=      #STW2[5]
```

```
A      #Master_bit_2
=      #STW2[6]
```

```
A      #Master_bit_3
=      #STW2[7]
```

Network: 25      Presun slova SATZANW (EPOS block selection) na vstup
---

```
A      #EPOS_bit_0
=      #SATZANW[8]
```

```
A      #EPOS_bit_1
=      #SATZANW[9]
```

```
A      #EPOS_bit_2
=      #SATZANW[10]
```

```
A      #EPOS_bit_3
=      #SATZANW[11]
```

```
A      #EPOS_bit_4
=      #SATZANW[12]
```

```
A      #EPOS_bit_5
=      #SATZANW[13]
```

// u SATZANW je 6. bit (SATZANW[14]) az 14. bit (SATZANW[7]) rezervni

```
A      #EPOS_direct
=      #SATZANW[7]
```

Network: 26

Presun slova POS\_STW (EPOS control word) na vstup

```
A      #EPOS_tracking
=      #POS_STW[8]

A      #EPOS_set
=      #POS_STW[9]

A      #EPOS_search
=      #POS_STW[10]

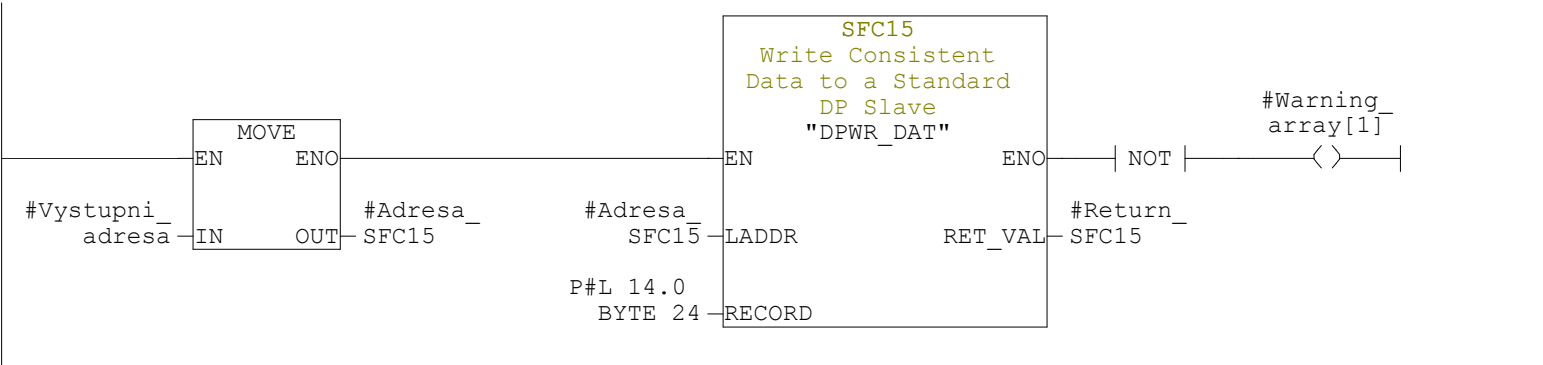
// u POS_STW je 3. bit (POS_STW[11]) a 4. bit (POS_STW[12]) rezervni

A      #EPOS_increment
=      #POS_STW[13]

// u POS_STW je 6. bit (POS_STW[14]) az 15. bit (POS_STW[7]) rezervni
```

Network: 27

Nahrani dat z CPU (TEMP) do menice



Network: 28

Presun navratove hodnoty SFC15 (zapis dat do menice) na vystup

OUT je 0 = presun v poradku, hexa cislo = cislo chyby

