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MASSA REATTORE
ADD_R OB33
kg 17/1
2300.0 R IN1 OUT R
0.0 R IN2

CP REATTORE
ADD_R OB33
kcal/(kg*K) 17/2
0.1195 R IN1 OUT R
0.0 R IN2

DELTAHreaz
ADD_R OB33
kcal/(molOH*K) 17/3
22.0 R IN1 OUT R
0.0 R IN2

UA RAFFREDDAMENT
ADD_R OB33
kcal/(min*K) 17/4
5.25 R IN1 OUT R
0.0 R IN2

UA RAFFR FONDO
ADD_R OB33
kcal/(min*K) 17/5
1.0 R IN1 OUT R
0.0 R IN2

UA RISCALDAMENTO
ADD_R OB33
kcal/(min*K) 17/6
11.5 R IN1 OUT R
0.0 R IN2

UA RISC FONDO
ADD_R OB33
kcal/(min*K) 17/7
3.0 R IN1 OUT R
0.0 R IN2

RA2\CALORE REAZIONE\07C CALORE SCARICO(A,2)\Mr*Cpr
IN1 Input Value 1
...\01C ENTALPIA FINALE(A,4)\ENTALP_REATT(1)
U1 PESO REATTORE
...\03C ENTALPIA MISCELAZ(A,5)\ENTALP_REATT(0)
U1 PESO REATTORE

RA2\CALORE REAZIONE\07C CALORE SCARICO(A,2)\Mr*Cpr
IN2 Input Value 2
...\01C ENTALPIA FINALE(A,4)\ENTALP_REATT(1)
U2 CALORE SPECIFICO ACCIAIO
...\03C ENTALPIA MISCELAZ(A,5)\ENTALP_REATT(0)
U2 CALORE SPECIFICO ACCIAIO

...\11 Q TEORICO POLOLI(A,4)\CALORE TEORICO K
U3 Input 3

RA2\CALORE REAZIONE\02C CALORE CAMICIA(A,5)\UA
IN1

RA2\CALORE REAZIONE\02C CALORE CAMICIA(A,5)\UA FONDO
IN1

RA2\CALORE REAZIONE\02C CALORE CAMICIA(A,5)\UA
IN0

RA2\CALORE REAZIONE\02C CALORE CAMICIA(A,5)\UA FONDO
IN0

RA2\RA2\CALORE REAZIONE\000_INIT
VARIABILI DI CONFIGURAZIONE
Partit.: A Sh.: 1

Author: RGB
Created on:: 13/11/2017 9.59
Last change: 20/02/2018 14.47
Number of pages: 1

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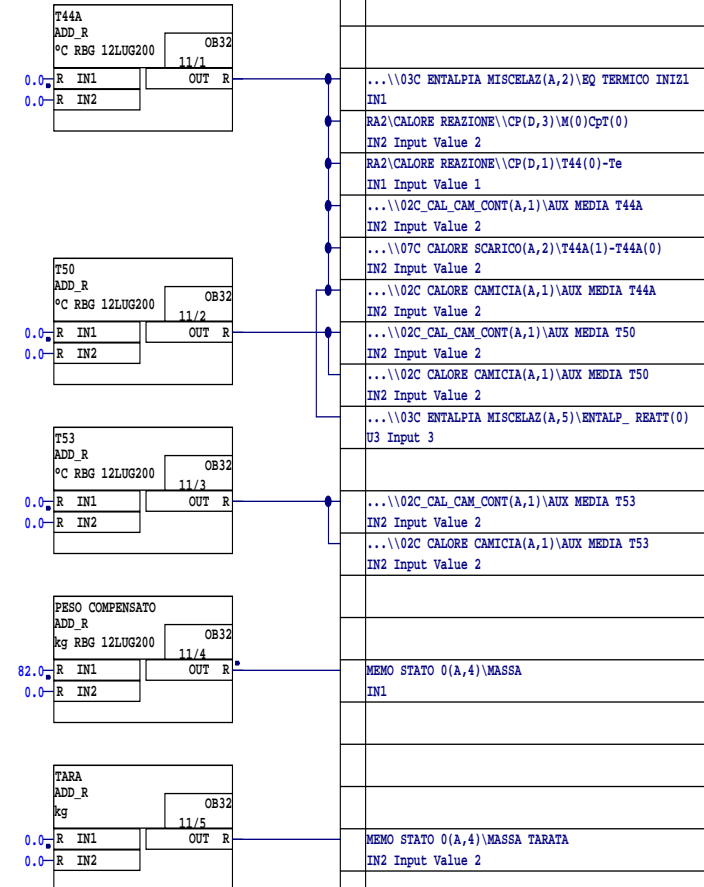
RA2\RA2\CALORE REAZIONE\\000_INIT
VARIABILI DI CONFIGURAZIONE
Partit.: A Sh.: 2

Author: RGB
Created on:: 13/11/2017 9.59
Last change: 20/02/2018 14.47
Number of pages: 3

[illegible]

Page 3 of 3

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RA2\RA2\CALORE	REAZIONE\	MEMO	STATO	0
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MEMO PV STATO 0

Partit.: A Sh.: 1

Author: RBG

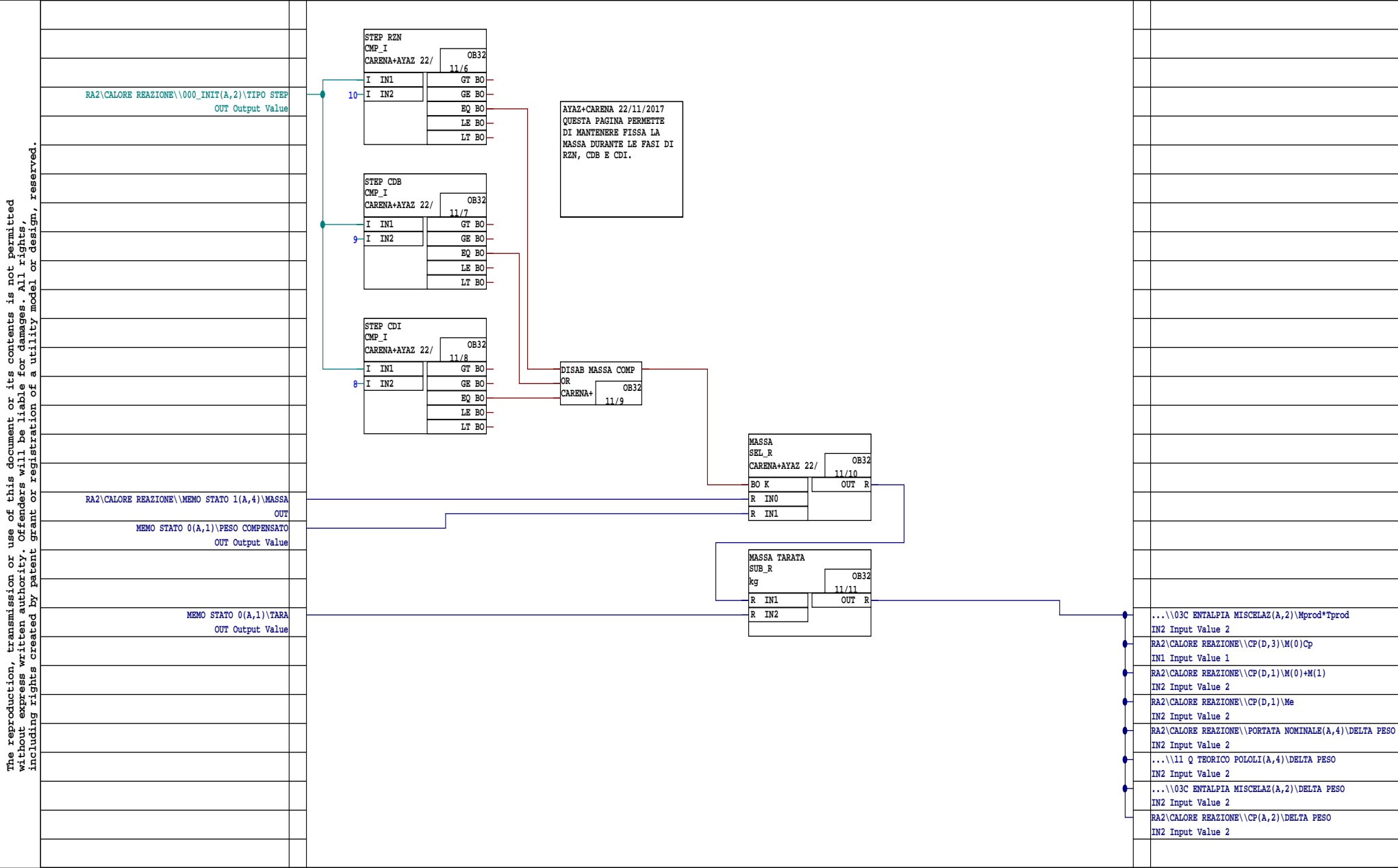
Created on:: 13/11/2017 9.59

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Number of pages: 1

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RA2\RA2\CALORE REAZIONE\MEMO STATO 0

MEMO PV STATO 0

Partit.: A Sh.: 4

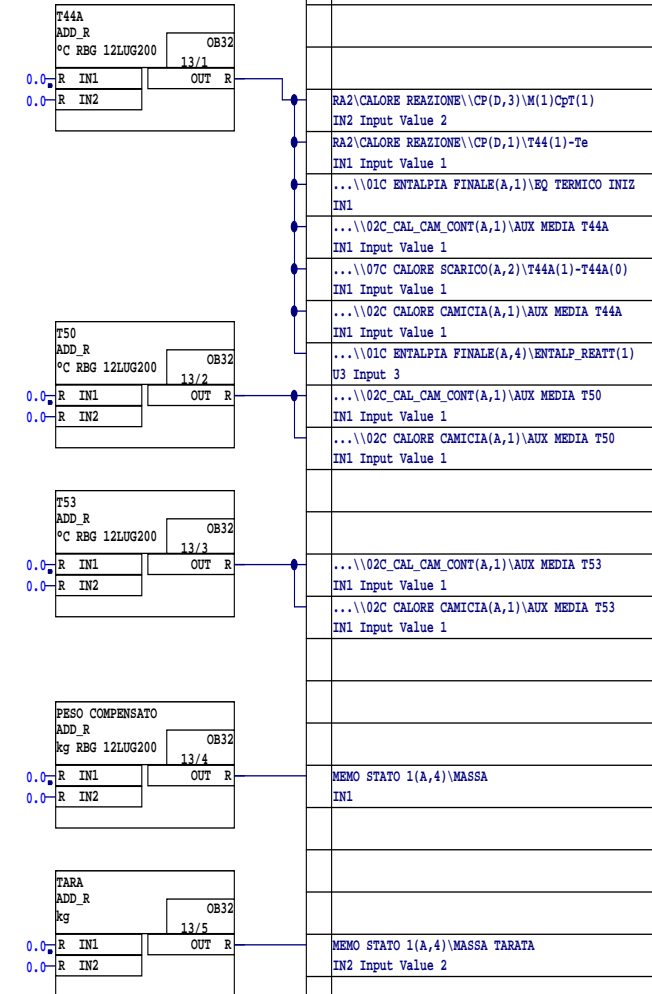
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RA2\RA2\CALORE REAZIONE\\MEMO STATO 1

MEMO PV STATO 1

Partit.: A Sh.: 1

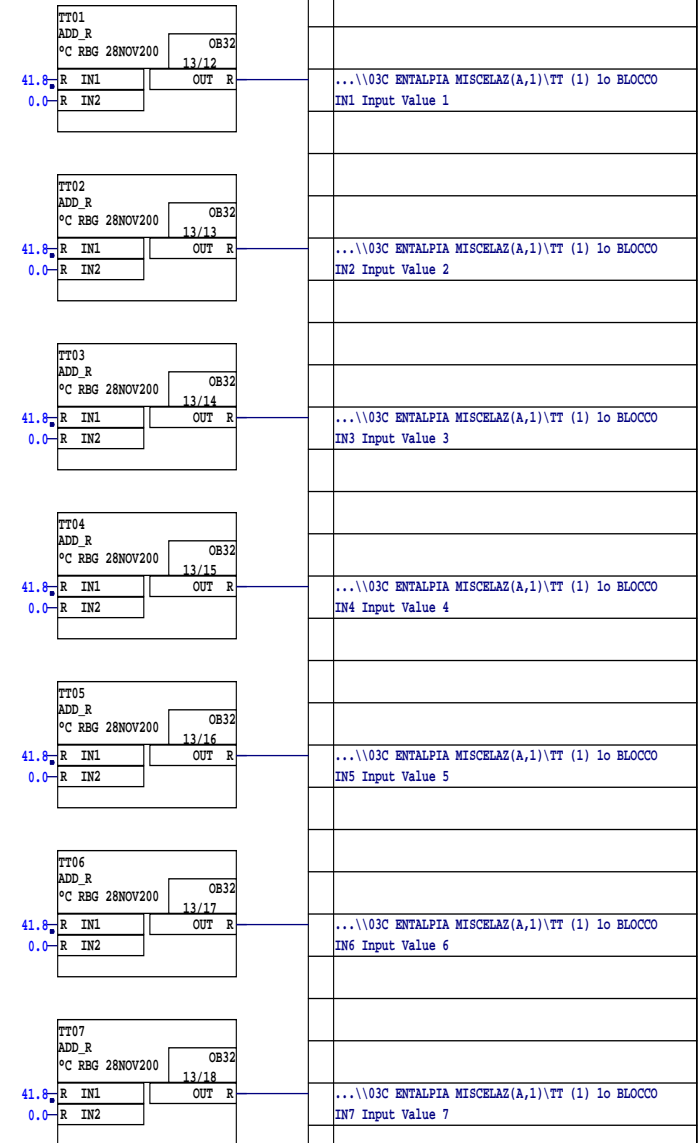
Author: RBG

Created on:: 13/11/2017 9.59

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RA2\RA2\CALORE	REAZIONE\	MEMO	STATO	1
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MEMO PV STATO 1

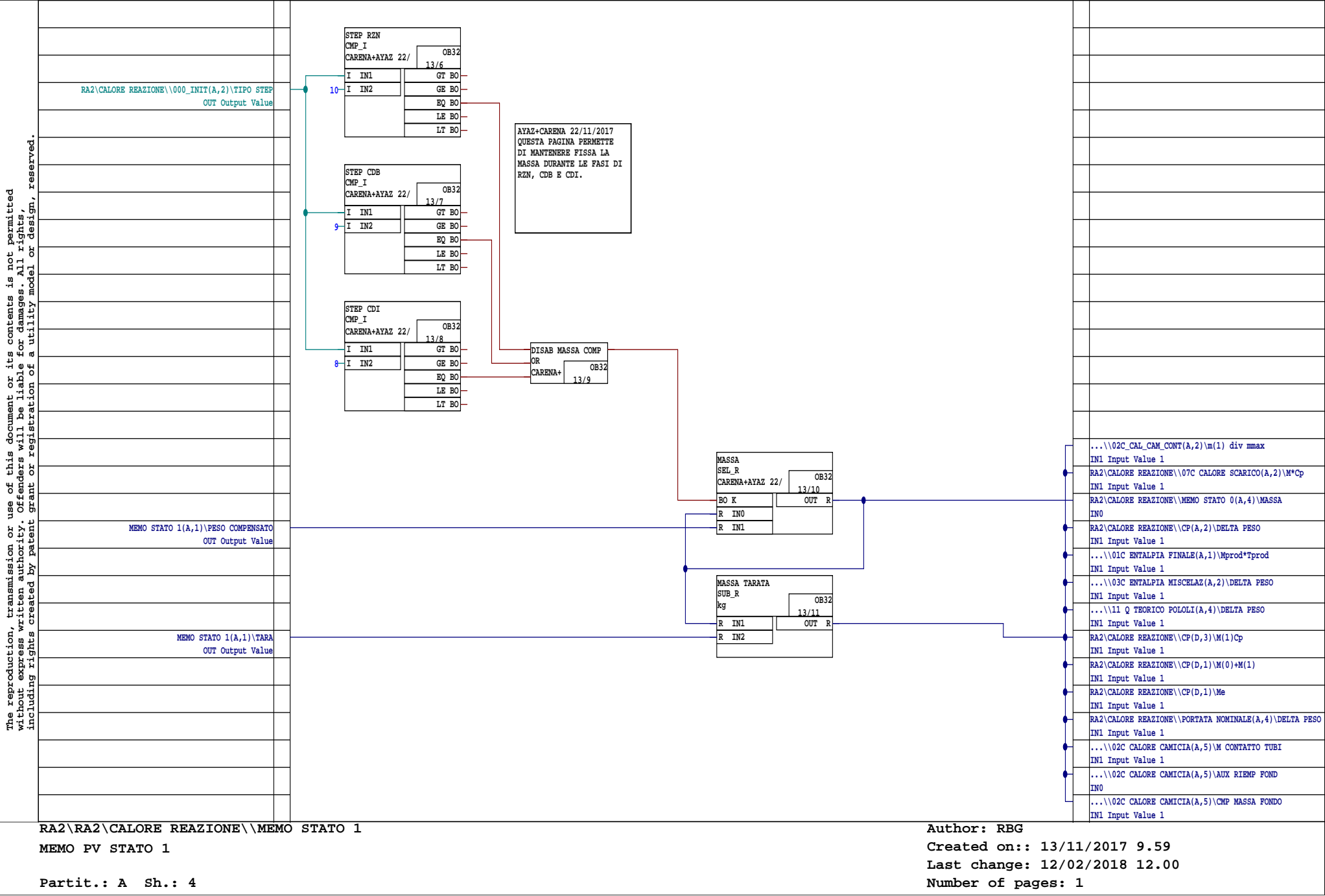
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Author: RBG

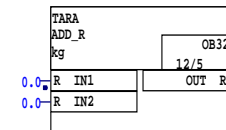
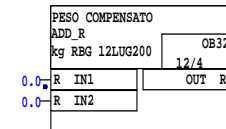
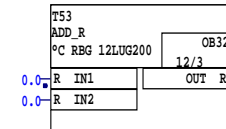
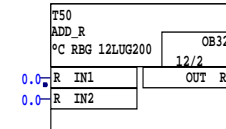
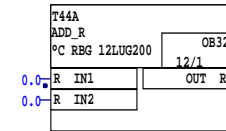
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RA2\RA2\CALORE REAZIONE\\MEMO STATO TEMP

MEMO PV STATO 0

Partit.: A Sh.: 1

Author: RBG

Created on:: 13/11/2017 9.59

Last change: 12/01/2018 17.13

Number of pages: 1

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TT01
ADD_R
°C RBG 28NOV200 OB32
12/6
41.8 R IN1 OUT R
0.0 R IN2

TT02
ADD_R
°C RBG 28NOV200 OB32
12/7
41.8 R IN1 OUT R
0.0 R IN2

TT03
ADD_R
°C RBG 28NOV200 OB32
12/8
41.8 R IN1 OUT R
0.0 R IN2

TT04
ADD_R
°C RBG 28NOV200 OB32
12/9
41.8 R IN1 OUT R
0.0 R IN2

TT05
ADD_R
°C RBG 28NOV200 OB32
12/10
41.8 R IN1 OUT R
0.0 R IN2

TT06
ADD_R
°C RBG 28NOV200 OB32
12/11
41.8 R IN1 OUT R
0.0 R IN2

TT07
ADD_R
°C RBG 28NOV200 OB32
12/12
41.8 R IN1 OUT R
0.0 R IN2

RA2\RA2\CALORE REAZIONE\\MEMO STATO TEMP

MEMO PV STATO 0

Partit.: A Sh.: 2

Author: RBG

Created on:: 13/11/2017 9.59

Last change: 12/01/2018 17.13

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The diagram illustrates a logic circuit with three main components:

- AUX QTA PRODOTTO REAL-Comparator**: This component has inputs R IN1 and R IN2, and outputs GT BO, GE BO, EQ BO, LE BO, and LT BO. It also has a register OB32 with value 14/2.
- MASSA CAR-SCAR**: This component has inputs BO K, R IN0, and R IN1, and an output OUT R. It also has a register OB32 with value 14/3.
- INT TO REAL**: This component has an input I_R and an output R. It also has a register OB32 with value 14/1.

The data flow is as follows:

- The output of the **AUX QTA PRODOTTO REAL-Comparator** (GT BO) is connected to the input of the **MASSA CAR-SCAR** (BO K).
- The output of the **MASSA CAR-SCAR** (OUT R) is connected to the input of the **INT TO REAL** (I_R).
- The output of the **INT TO REAL** (R) is connected to the input of the **AUX QTA PRODOTTO REAL-Comparator** (R IN1).

The data table on the right side of the diagram is as follows:

PORTATA NOMINALE(A,4)\PORTATA NOMINALE
IN1 Input Value 1
PORTATA NOMINALE(A,4)\PORTATA NOMINALE
IN2 Input Value 2

Author:
Created on:: 18/12/2017 17.11
Last change: 15/02/2018 11.49
Number of pages: 1

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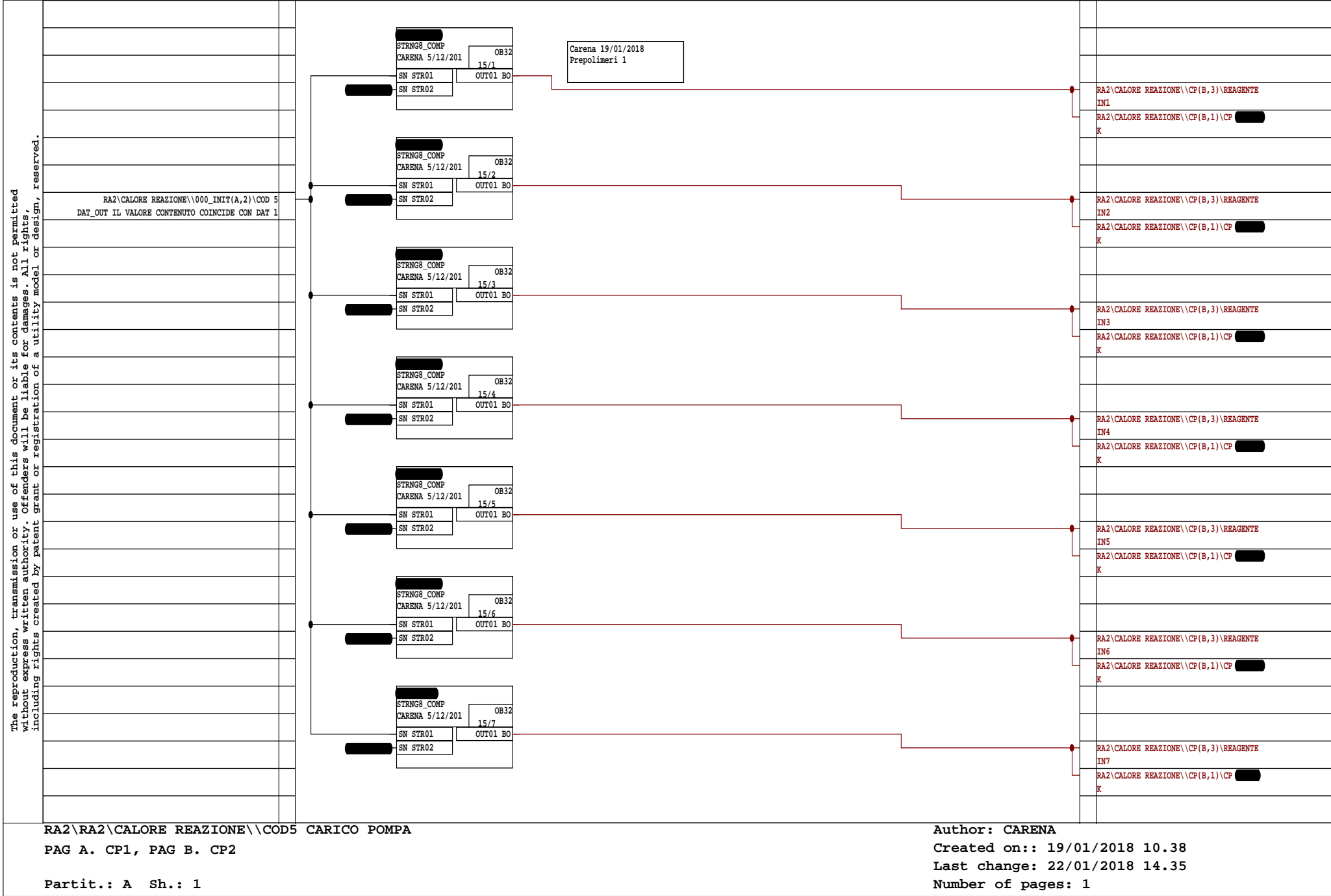
The diagram illustrates a control system architecture. It features four main functional blocks, each represented by a rectangle with internal components and connections:

- DELTA PESO**: This block has two inputs, **R IN1** and **R IN2**, and one output, **OUT R**. It also includes a sub-block labeled **OB32** with a value of **14/4**.
- VALORE ASS**: This block has two inputs, **R IN1** and **R IN2**, and one output, **OUT R**. It also includes a sub-block labeled **OB32** with a value of **14/5**.
- PORTATA NOMINALE**: This block has two inputs, **R IN1** and **R IN2**, and one output, **OUT R**. It also includes a sub-block labeled **OB32** with a value of **14/6**.
- TOLLERANZA DM**: This block has two inputs, **R IN1** and **R IN2**, and one output, **OUT R**. It also includes a sub-block labeled **OB32** with a value of **14/7**.

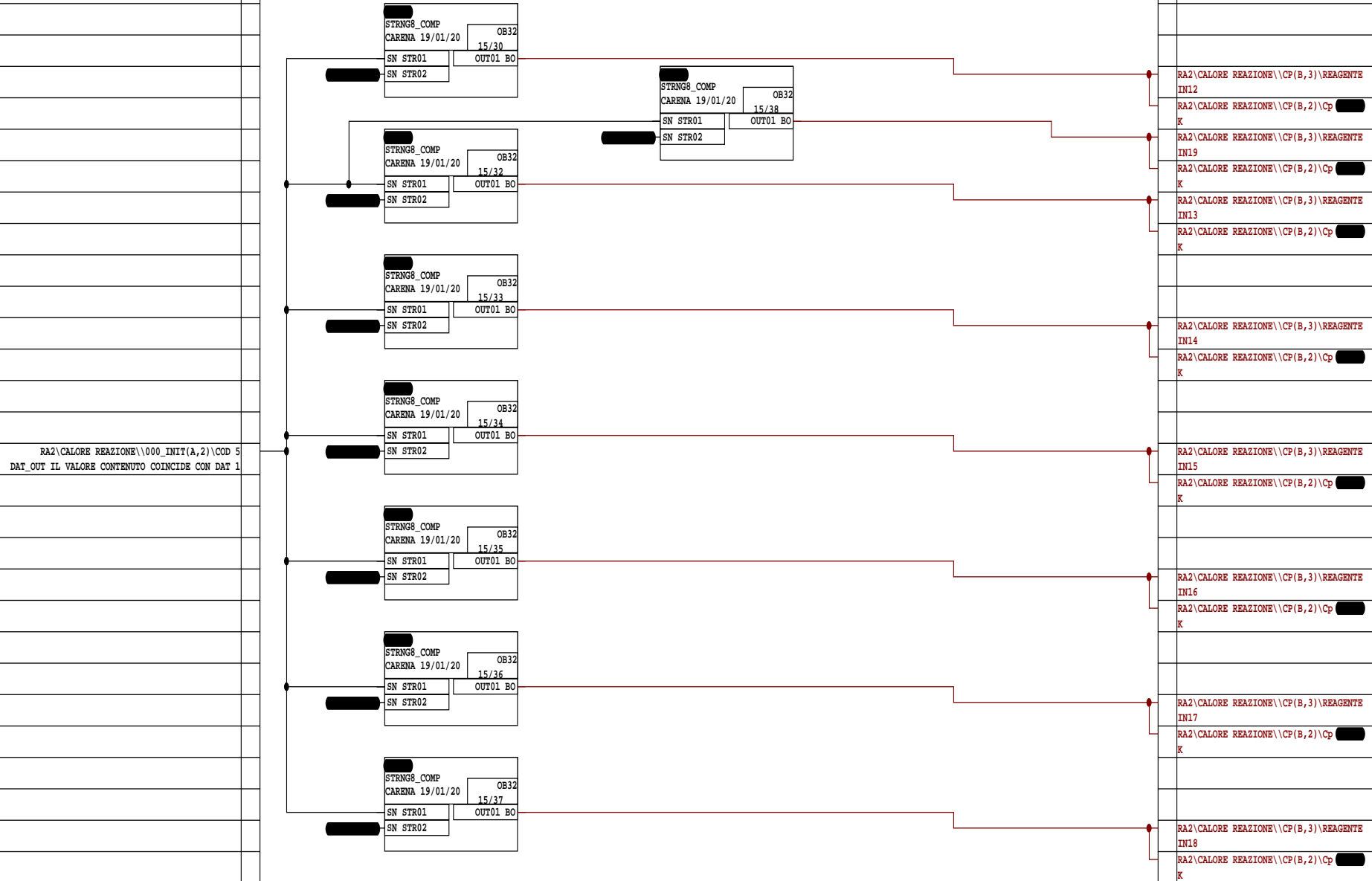
The outputs of these blocks are connected to a central control unit, **VAR M EFFETTIVA**, which is represented by a rectangle with two inputs, **R IN1** and **R IN2**, and one output, **OUT R**. The control unit is also connected to a set of output comparators, labeled **GT BO**, **GE BO**, **EQ BO**, **LE BO**, and **LT BO**.

The diagram also shows a series of input/output lines on the left side, labeled with various identifiers and values, such as **RA2\CALORE REAZIONE\MEMO STATO 1(A,4)\MASSA TARATA** and **PORTATA NOMINALE(A,1)\MASSA CAR-SCAR**.

Number of pages: 1



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RA2\RA2\CALORE REAZIONE\	COD5	CARICO POMPA
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PAG A. CP1, PAG B. CP2

Partit.: A Sh.: 2

Author: CARENA

Created on:: 19/01/2018 10.38

Last change: 22/01/2018 14.35

Number of pages: 1

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RA2\CALORE REAZIONE\000_INIT(A,2)\COD 5
DAT_OUT IL VALORE CONTENUTO COINCIDE CON DAT 1

STRNG8_COMP
CARENA 5/12/201 OB32
15/8
SN_STR01 OUT01 BO
SN_STR02

Carena 19/01/2018
Prepolimeri 2

STRNG8_COMP
CARENA 5/12/201 OB32
15/9
SN_STR01 OUT01 BO
SN_STR02

STRNG8_COMP
CARENA 5/12/201 OB32
15/10
SN_STR01 OUT01 BO
SN_STR02

STRNG8_COMP
CARENA 5/12/201 OB32
15/11
SN_STR01 OUT01 BO
SN_STR02

RA2\CALORE REAZIONE\\CP(B,3)\REAGENTE
IN8
RA2\CALORE REAZIONE\\CP(B,4)\CP
K

RA2\CALORE REAZIONE\\CP(B,3)\REAGENTE
IN9
RA2\CALORE REAZIONE\\CP(B,4)\CP
K

RA2\CALORE REAZIONE\\CP(B,3)\REAGENTE
IN10
RA2\CALORE REAZIONE\\CP(B,4)\CP
K

RA2\CALORE REAZIONE\\CP(B,3)\REAGENTE
IN11
RA2\CALORE REAZIONE\\CP(B,4)\CP
K

RA2\RA2\CALORE REAZIONE\\COD5 CARICO POMPA

PAG A. CP1, PAG B. CP2

Partit.: A Sh.: 4

Author: CARENA

Created on:: 19/01/2018 10.38

Last change: 22/01/2018 14.35

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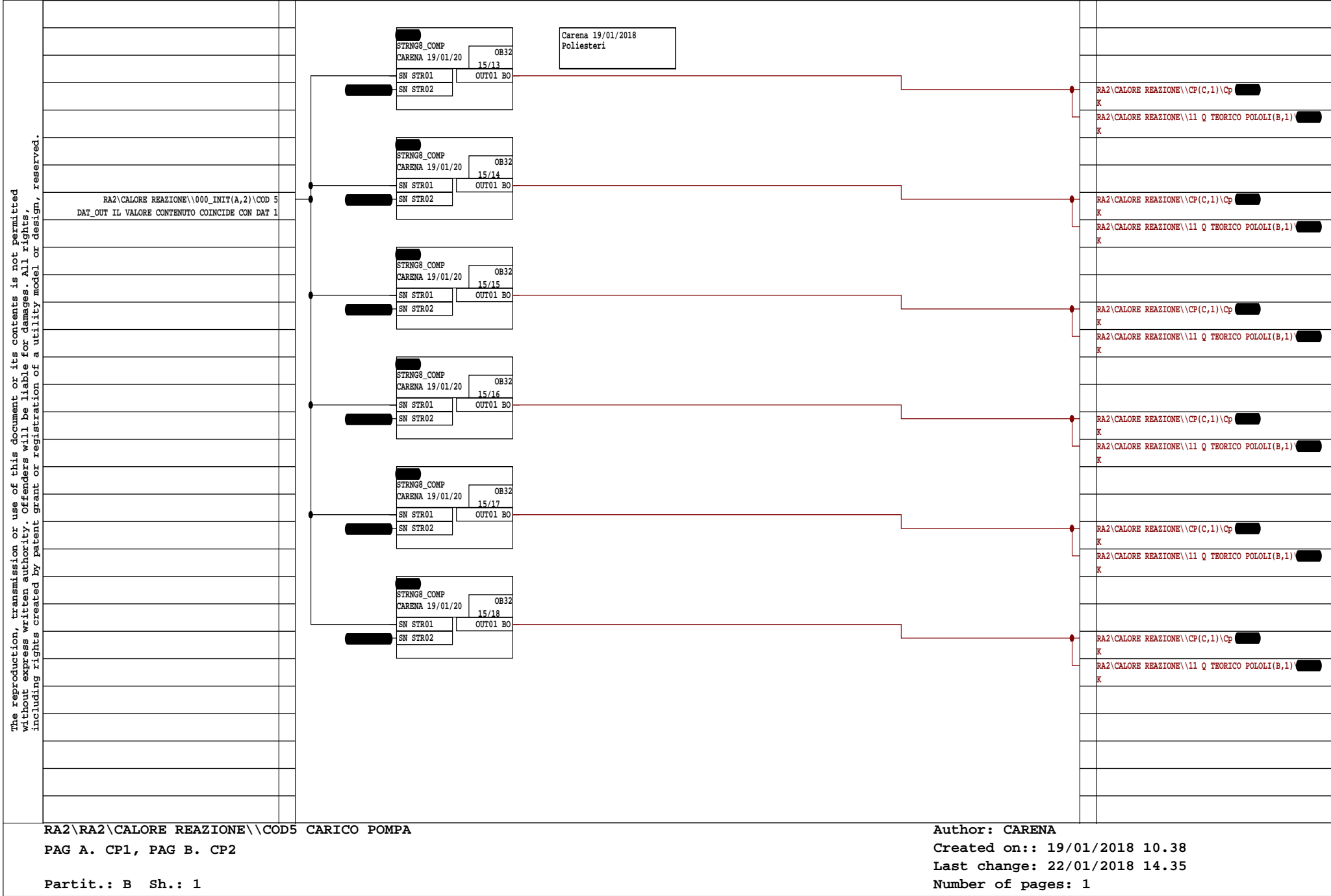
SN STR01	OUT01 BO
SN STR02	

RA2\GESTIONE RICETTE\RESYS11(B,1)\CodSapMP
DAT Aktueller Datenausgang

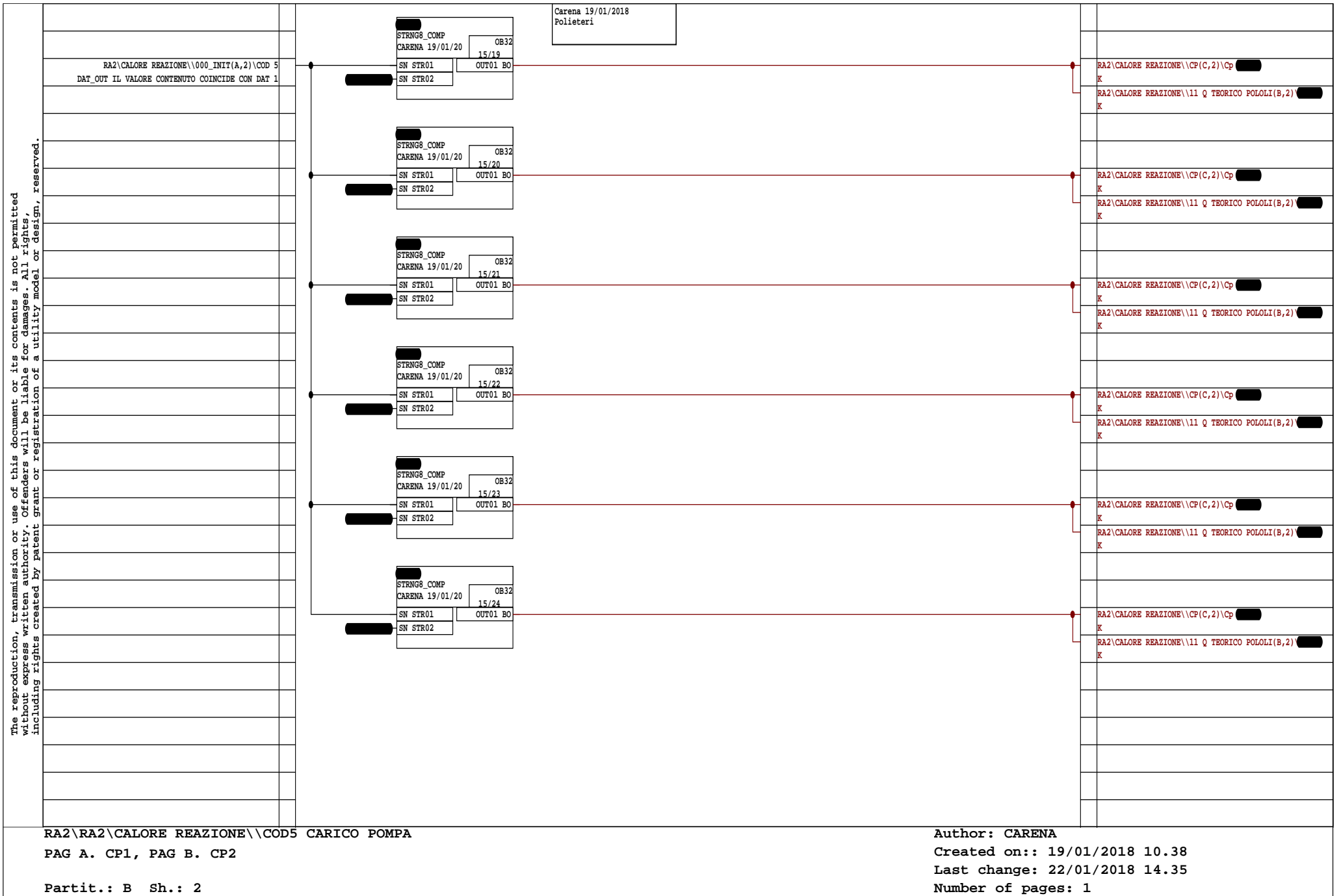
RA2\CALORE REAZIONE\CP(B,6)\REAGENTE NOTO IN2
RA2\CALORE REAZIONE\CP(B,5)\CP PRODOTTO K

RA2\RA2\CALORE REAZIONE\COD5 CARICO POMPA
PAG A. CP1, PAG B. CP2
Partit.: A Sh.: 5

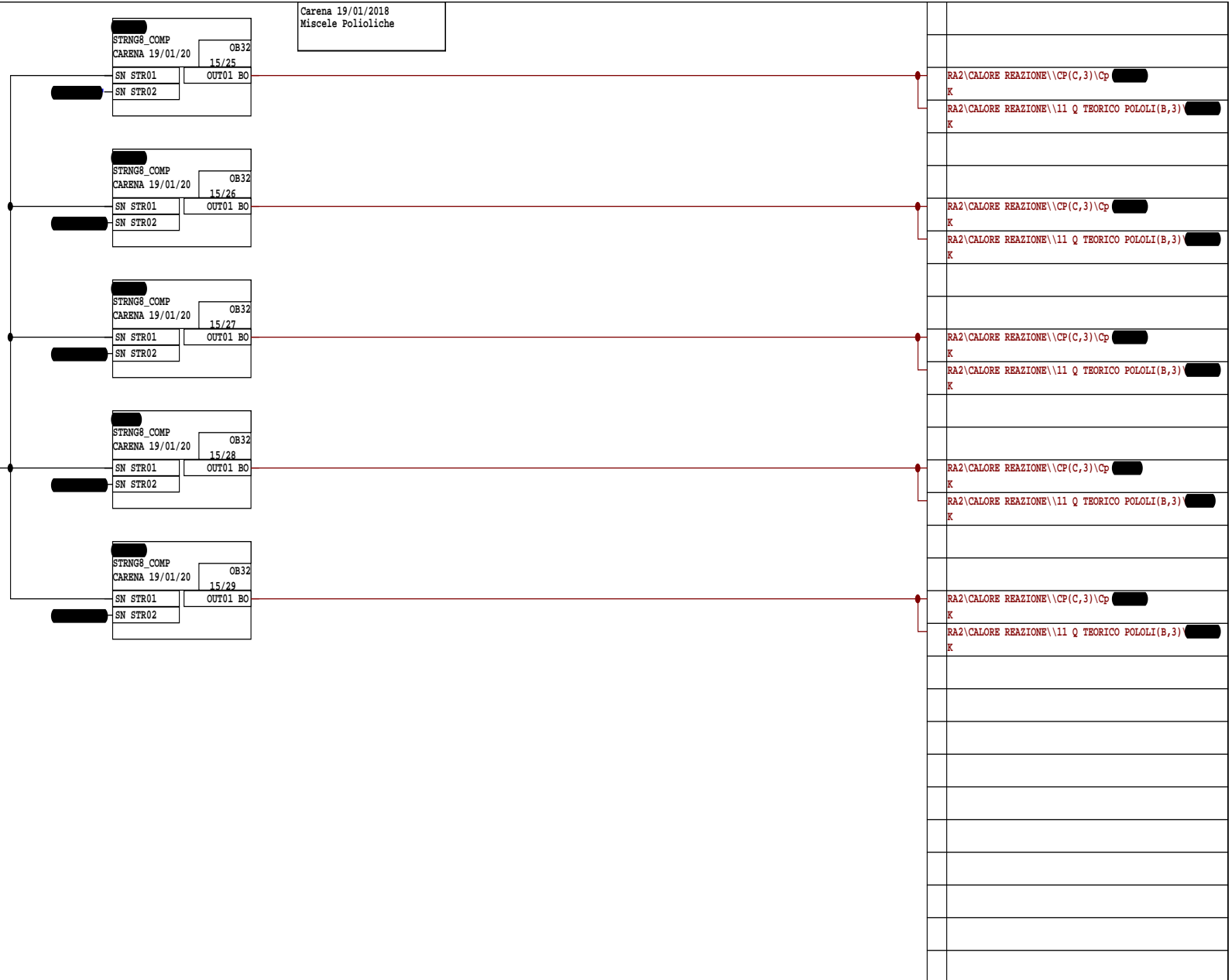
Author: CARENA
Created on:: 19/01/2018 10.38
Last change: 22/01/2018 14.35
Number of pages: 1



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RA2\RA2\CALORE REAZIONE\COD5 CARICO POMPA
PAG A. CP1, PAG B. CP2
Partit.: B Sh.: 3

Author: CARENA
Created on:: 19/01/2018 10.38
Last change: 22/01/2018 14.35
Number of pages: 1

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RA2\CALORE REAZIONE\000_INIT(A,2)\COD 5
DAT_OUT IL VALORE CONTENUTO COINCIDE CON DAT 1

STRNG8 COMP
CARENA 19/01/20
OB32
15/31
SN STR01
SN STR02
OUT01 BO

Carena 19/01/2018
Additivi

RA2\CALORE REAZIONE\11 Q TEORICO POLOLI(B,4)\OH
K
RA2\CALORE REAZIONE\CP(C,4)\Cp
K

RA2\RA2\CALORE REAZIONE\\COD5 CARICO POMPA

PAG A. CP1, PAG B. CP2

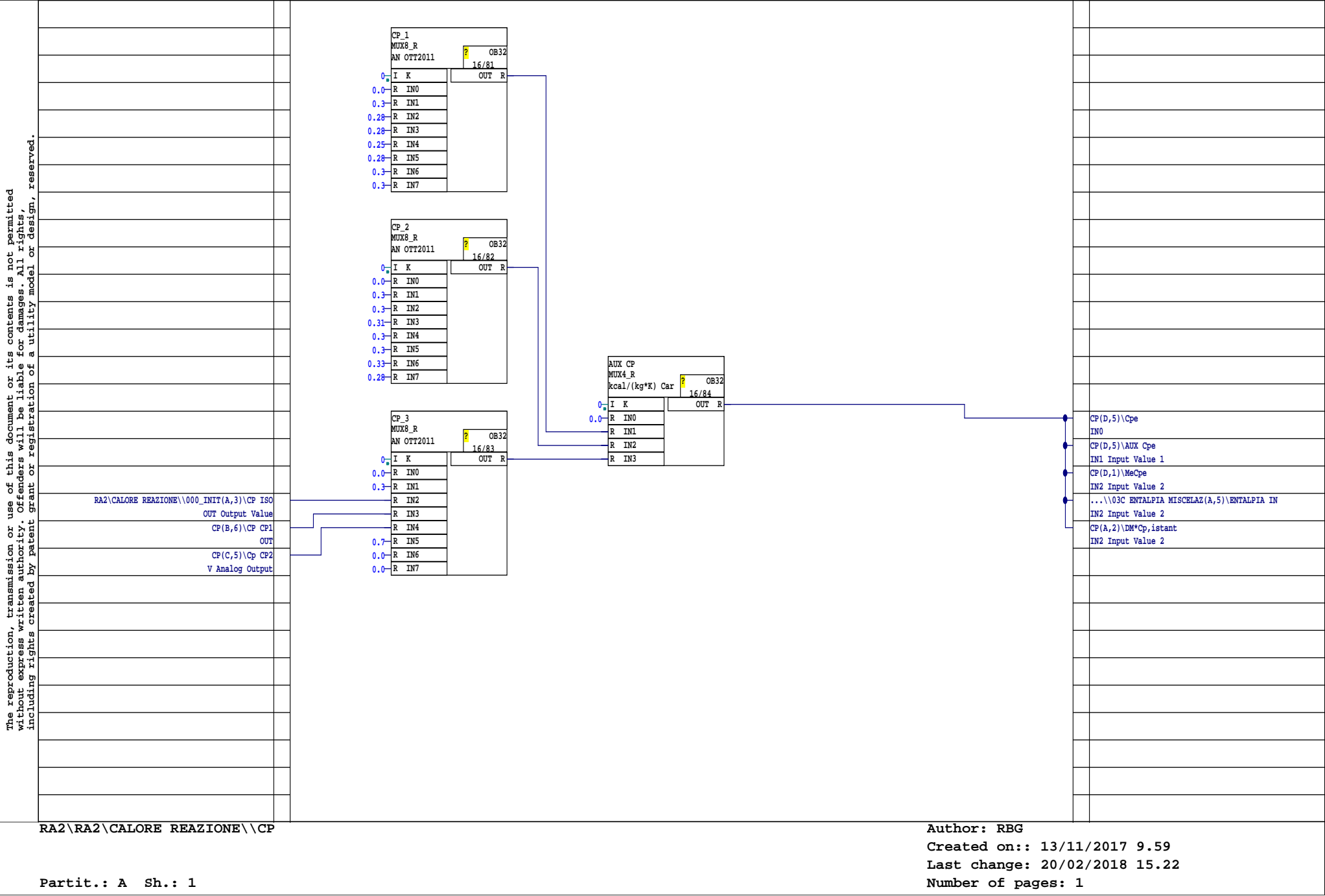
Partit.: B Sh.: 4

Author: CARENA

Created on:: 19/01/2018 10.38

Last change: 22/01/2018 14.35

Number of pages: 1



RA2\RA2\CALORE REAZIONE\CP

Partit.: A Sh.: 1

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 20/02/2018 15.22
Number of pages: 1

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RA2\CALORE REAZIONE\MEMO STATO 1(A,4)\MASSA TARATA
OUT Output Value
CP(A,1)\AUX CP
OUT Output Value
RA2\CALORE REAZIONE\MEMO STATO 0(A,4)\MASSA TARATA
OUT Output Value

DELTA PESO
SUB_R
AYAZ+CARENA 22/ ? OB32
16/85
R IN1
R IN2
OUT R

DM*Cp,istant
MUL_R
AYAZ+CARENA 22/ ? OB32
16/86
R IN1
R IN2
OUT R

Cp,IN>0
CMP_R
REAL-Comparator ? OB32
16/87
R IN1
R IN2
GT BO
GE BO
EQ BO
LE BO
LT BO

DELTA PESO CORR
SEL_R
CARENA 13/12/17 ? OB32
16/88
BO K
R IN0
R IN1
OUT R

MASSA TOTALE
ADD_R
REAL-Addition ? OB32
16/89
R IN1
R IN2
OUT R

STEP SCARICO1
CMP_I
AYAZ+CARENA 24/ ? OB32
16/90
I IN1
I IN2
GT BO
GE BO
EQ BO
LE BO
LT BO

STEP SCARICO2
CMP_I
AYAZ+CARENA 24/ ? OB32
16/91
I IN1
I IN2
GT BO
GE BO
EQ BO
LE BO
LT BO

STEP SCARICO
AND
AYAZ+CA ? OB32
16/92

CP(A,5)\SOMMA DM*Cp
IN1 Input Value 1

CP(A,5)\MASSA FISSA SCAR
IN1

CP(A,5)\MASSA FISSA SCAR
K

RA2\RA2\CALORE REAZIONE\CP

Partit.: A Sh.: 2

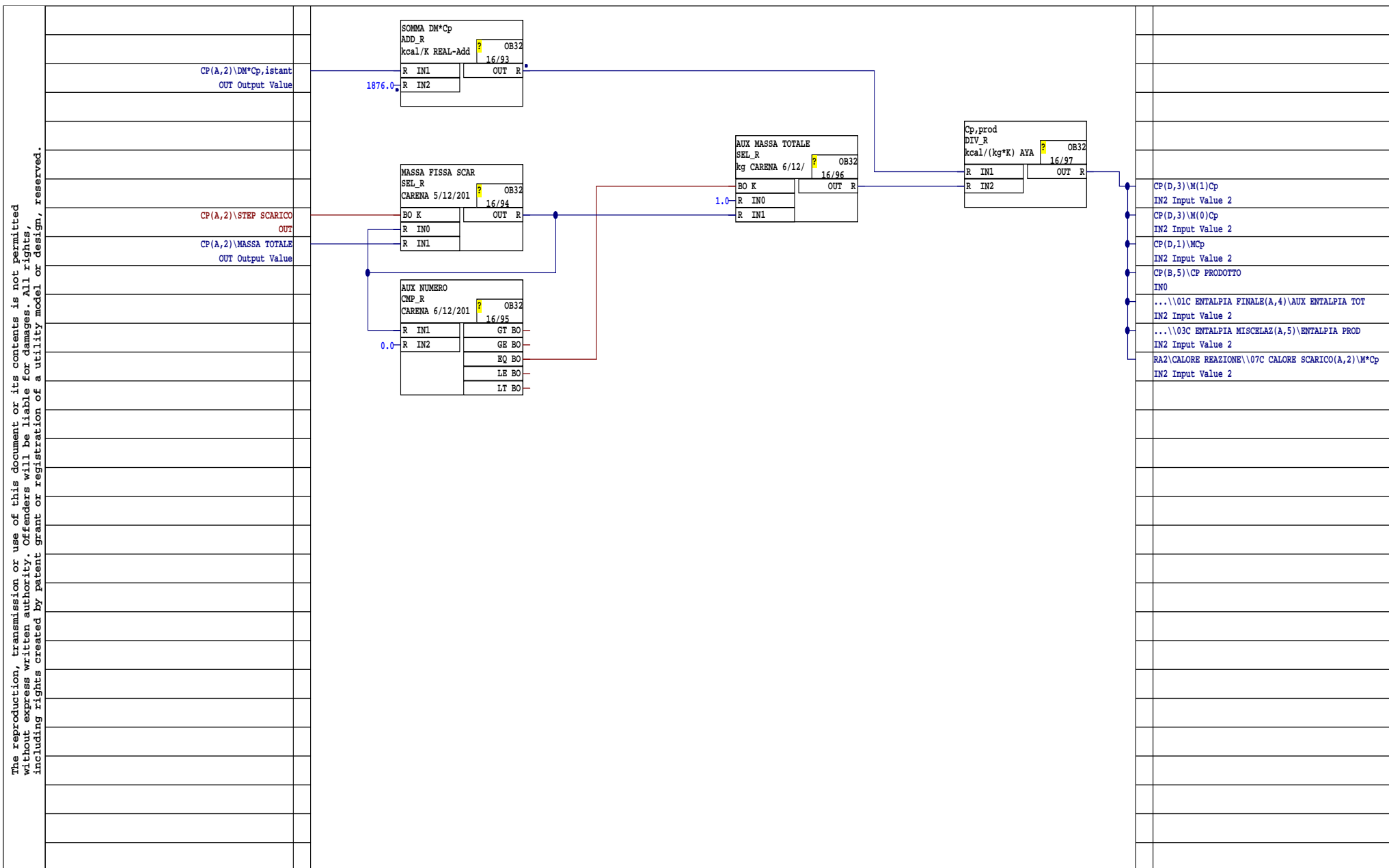
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RA2\RA2\CALORE REAZIONE\\CP

Author: RBG

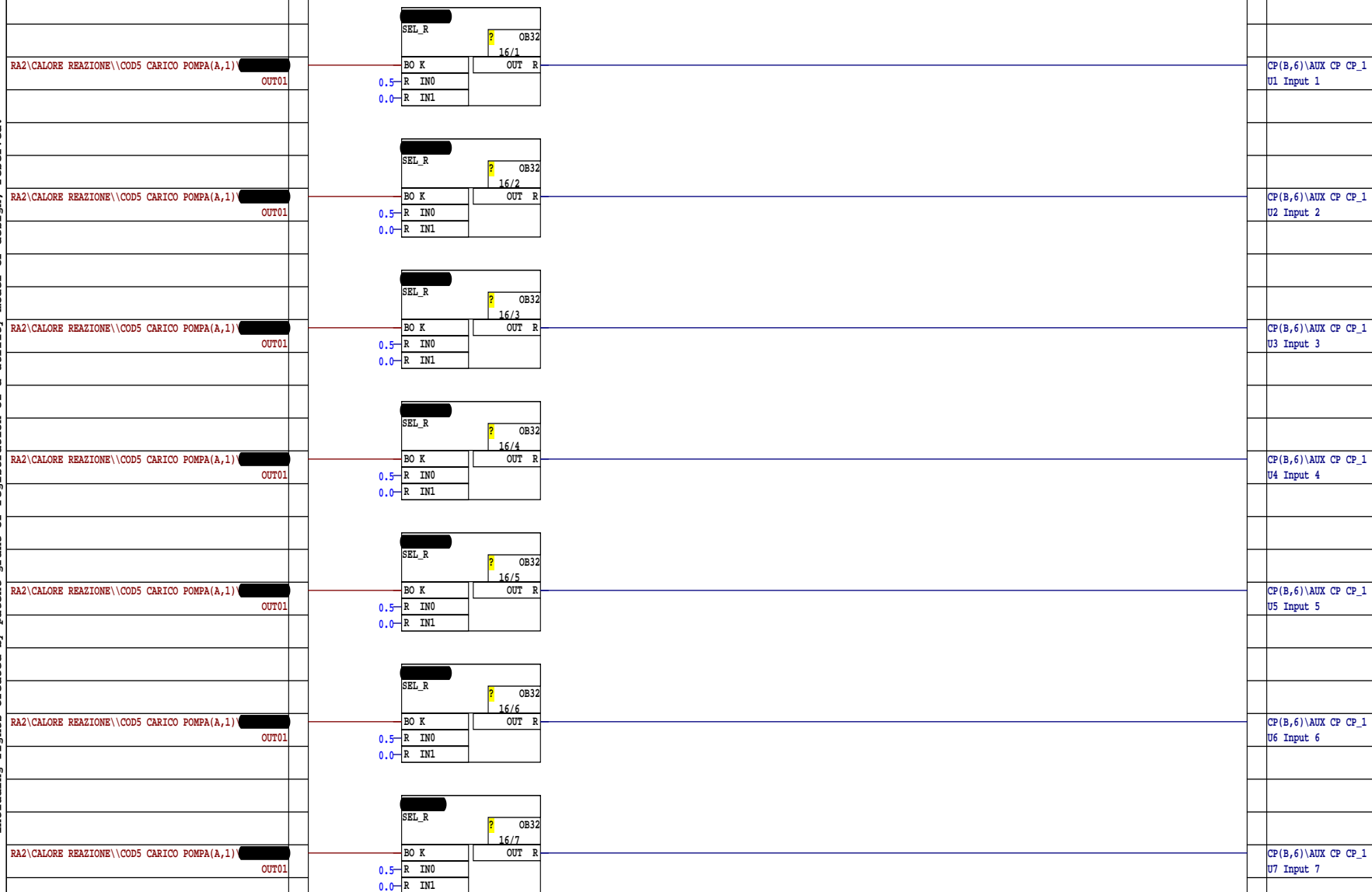
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Partit.: A Sh.: 5

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RA2\RA2\CALORE REAZIONE\CP

Partit.: B Sh.: 1

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	RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01		
	RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01		
	RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01		
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RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01			
RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01			
RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01			
RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01			
RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01			
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RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01			
RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01			
RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01			
RA2\CALORE REAZIONE\COD5 CARICO POMPA(A,1)	OUT01			
RA2\CALORE REAZIONE\C				

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RA2\RA2\CALORE REAZIONE\CP

Partit.: B Sh.: 4

Author: RBG
Created on.: 13/11/2017 9.59
Last change: 20/02/2018 15.22
Number of pages: 1

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...\\COD5 CARICO POMPA(A,5)\\NON NOTO O PROD
OUT01
CP(A,5)\\Cp,prod
OUT Output Value

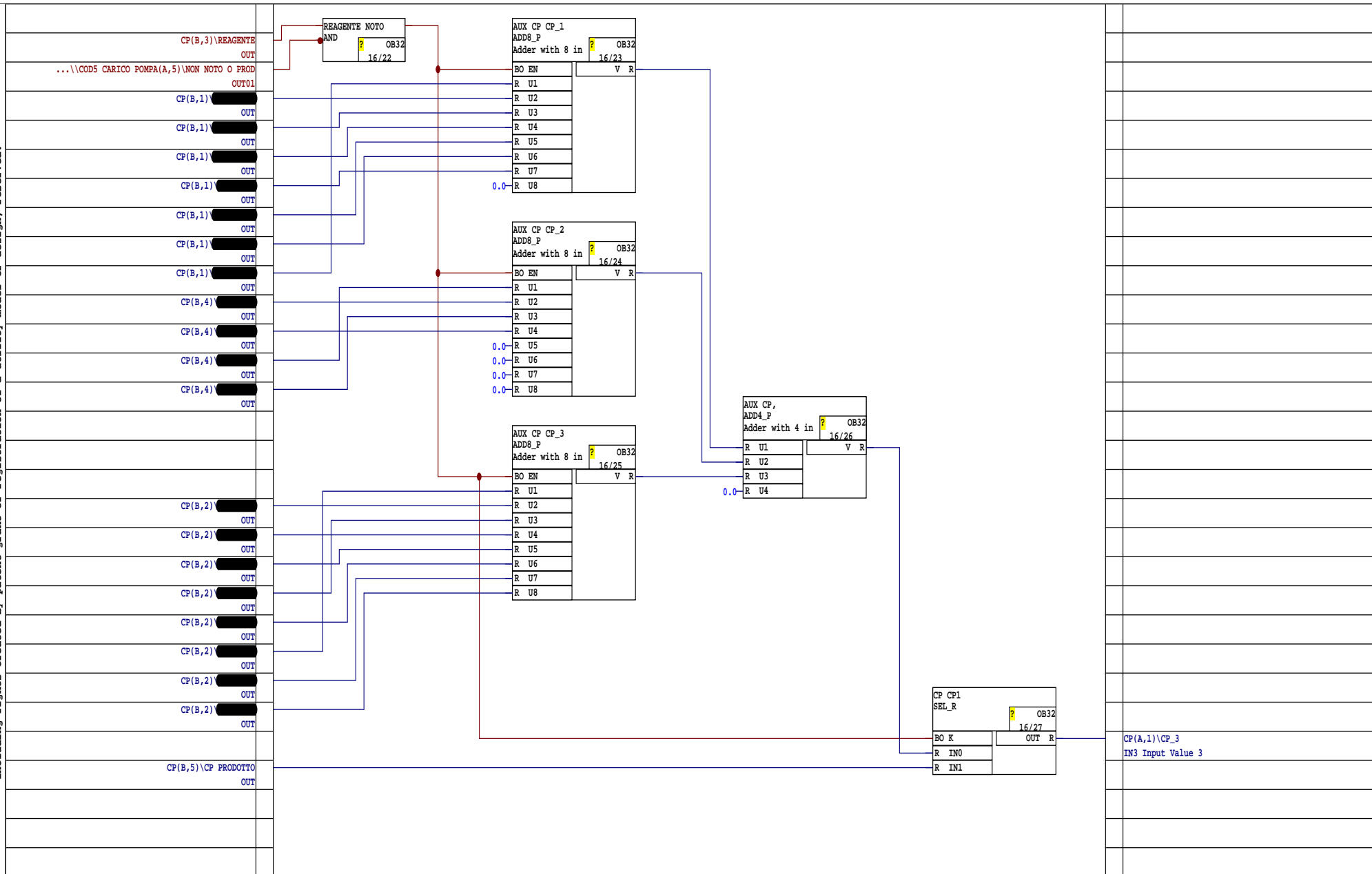
CP PRODOTTO
SEL_R
OB32
16/20
OUT R

BO K
R IN0
R IN1

CP(B,6)\\CP CP1
IN1

Author: RBG
Created on:: 13/11/2017 9.59
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RA2\RA2\CALORE REAZIONE\CP

Partit.: B Sh.: 6

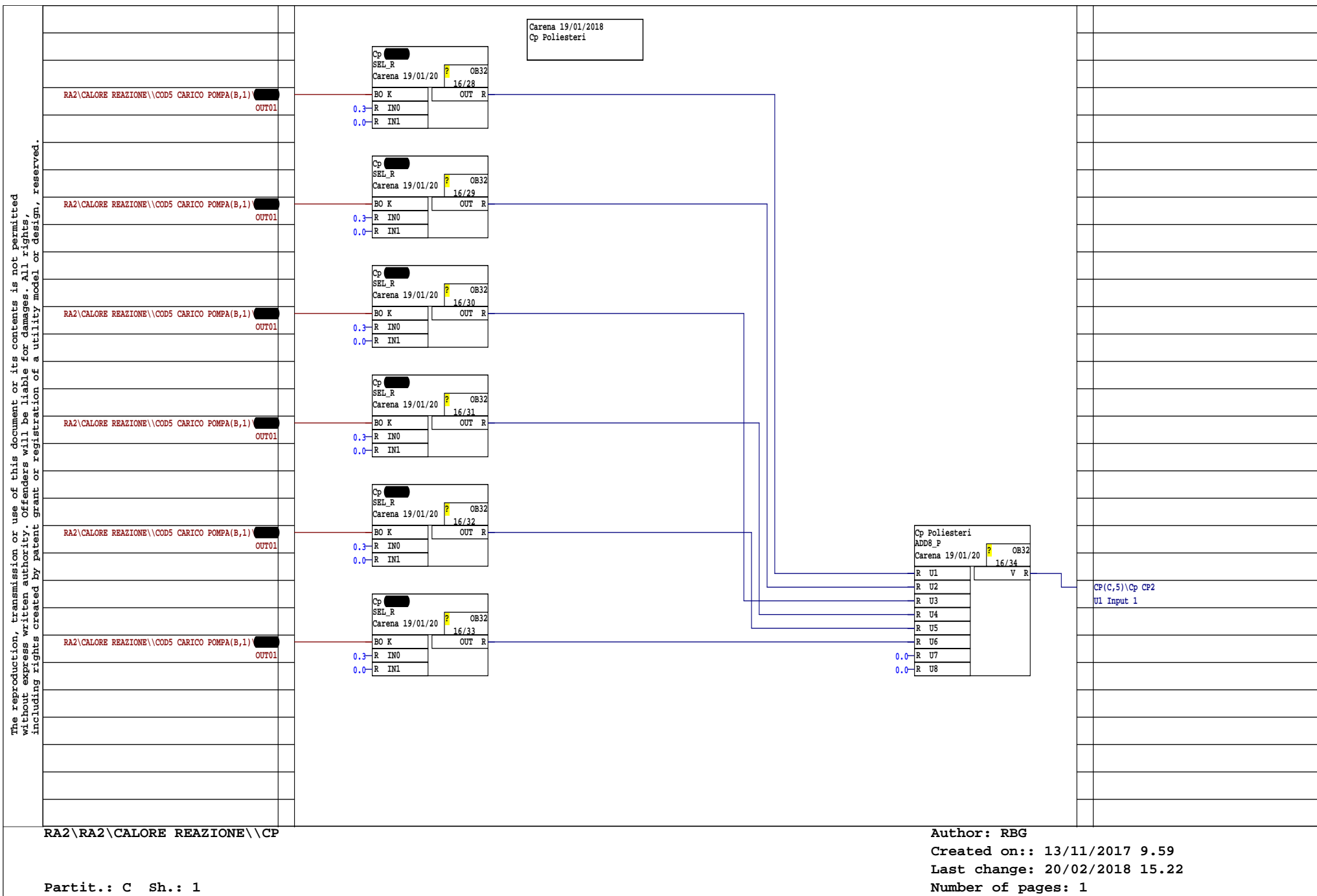
Author: RBG

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Carena 19/01/2018
Cp Polieteri

RA2\CALORE REAZIONE\\COD5 CARICO POMPA(B,2) OUT01

RA2\CALORE REAZIONE\\COD5 CARICO POMPA(B,2) OUT01

RA2\CALORE REAZIONE\\COD5 CARICO POMPA(B,2) OUT01

RA2\CALORE REAZIONE\\COD5 CARICO POMPA(B,2) OUT01

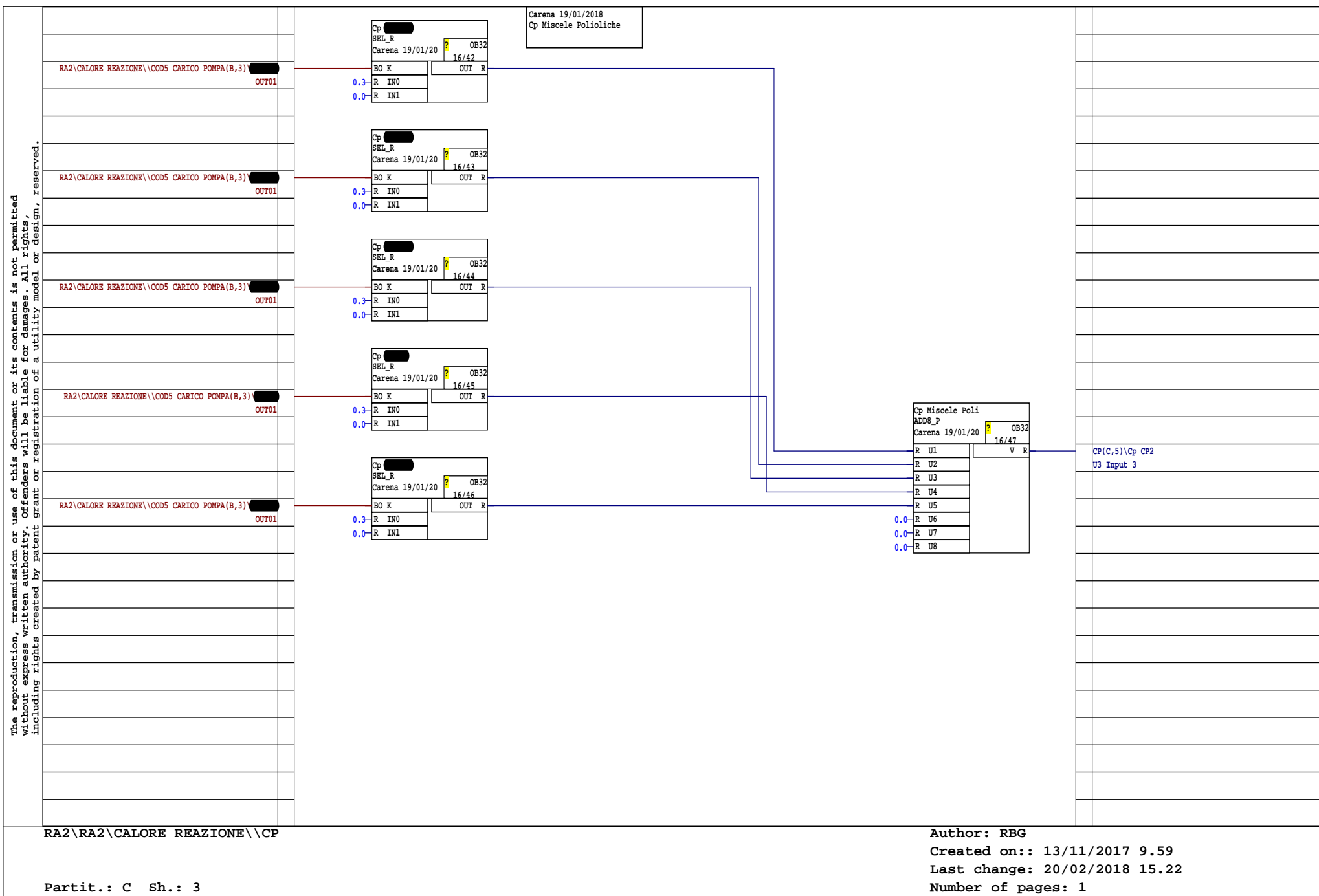
RA2\CALORE REAZIONE\\COD5 CARICO POMPA(B,2) OUT01

RA2\CALORE REAZIONE\\COD5 CARICO POMPA(B,2) OUT01

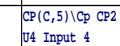
CP(C,5)\Cp CP2
U2 Input 2

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 20/02/2018 15.22
Number of pages: 1

Partit.: C Sh.: 2



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Last change: 20/02/2018 15.22
Number of pages: 1

Cp CP2		
ADD8_P		
Carena 19/01/20		OB32
		16/50
R U1		V R
R U2		
R U3		
R U4		
R U5		
R U6		
R U7		
R U8		

CP(C,1)\Cp Poliesteri	V Analog Output
CP(C,2)\Cp Polieteri	V Analog Output
CP(C,3)\Cp Miscele Poli	V Analog Output
CP(C,4)\Cp Additivi	V Analog Output

R	U1	
R	U2	
R	U3	
R	U4	
R	U5	
R	U6	
R	U7	
R	U8	

CP(A,1)\CP_3
IN4 Input Value 4

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Page 1 of 1

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RA2\CALORE REAZIONE\MEMO STATO 1(A,1)\T44A
OUT Output Value
RA2\CALORE REAZIONE\MEMO STATO 0(A,1)\T44A
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 1(A,1)\T53
OUT Output Value
RA2\CALORE REAZIONE\MEMO STATO 0(A,1)\T53
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 1(A,1)\T50
OUT Output Value
RA2\CALORE REAZIONE\MEMO STATO 0(A,1)\T50
OUT Output Value

AUX MEDIA T44A
ADD_R
RBG 12LUG2003
17/1
R IN1
OUT R
R IN2

MEDIA T44A
DIV_R
RBG 12LUG2003
17/2
R IN1
OUT R
R IN2

AUX MEDIA T53
ADD_R
RBG 12LUG2003
17/3
R IN1
OUT R
R IN2

MEDIA T53
DIV_R
RBG 12LUG2003
17/4
R IN1
OUT R
R IN2

T53 - T44A
SUB_R
REAL-Subtractio
17/7
R IN1
OUT R
R IN2

AUX MEDIA T50
ADD_R
RBG 12LUG2003
17/5
R IN1
OUT R
R IN2

MEDIA T50
DIV_R
RBG 12LUG2003
17/6
R IN1
OUT R
R IN2

T50- T44A
SUB_R
REAL-Subtractio
17/8
R IN1
OUT R
R IN2

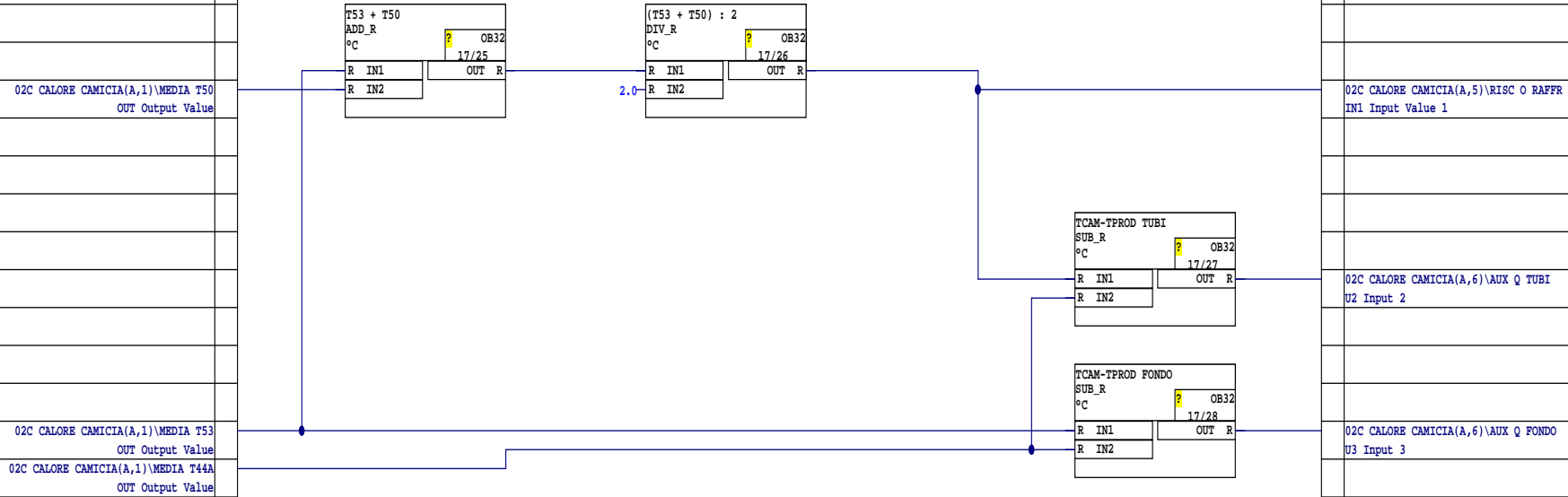
02C CALORE CAMICIA(A,5)\RISC O RAFFR1
IN2 Input Value 2
02C CALORE CAMICIA(A,4)\TCAM-TPROD FONDO
IN2 Input Value 2
02C CALORE CAMICIA(A,4)\TCAM-TPROD TUBI
IN2 Input Value 2
02C CALORE CAMICIA(A,5)\RISC O RAFFR
IN2 Input Value 2

02C CALORE CAMICIA(A,2)\SEGN0 |T53-T44A)
IN1 Input Value 1
02C CALORE CAMICIA(A,5)\RISC O RAFFR1
IN1 Input Value 1
02C CALORE CAMICIA(A,4)\TCAM-TPROD FONDO
IN1 Input Value 1
02C CALORE CAMICIA(A,4)\T53 + T50
IN1 Input Value 1
02C CALORE CAMICIA(A,3)\NUMERATORE
IN1 Input Value 1
02C CALORE CAMICIA(A,3)\DENOMINATORE LN
IN1 Input Value 1
02C CALORE CAMICIA(A,4)\T53 + T50
IN2 Input Value 2
02C CALORE CAMICIA(A,2)\SEGN0 |T50-T44A)
IN1 Input Value 1
02C CALORE CAMICIA(A,3)\NUMERATORE
IN2 Input Value 2
02C CALORE CAMICIA(A,3)\DENOMINATORE LN
IN2 Input Value 2

RA2\RA2\CALORE REAZIONE\02C CALORE CAMICIA
CALCOLO CALORE CAMICIA
Partit.: A Sh.: 1

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 12/02/2018 11.35
Number of pages: 1

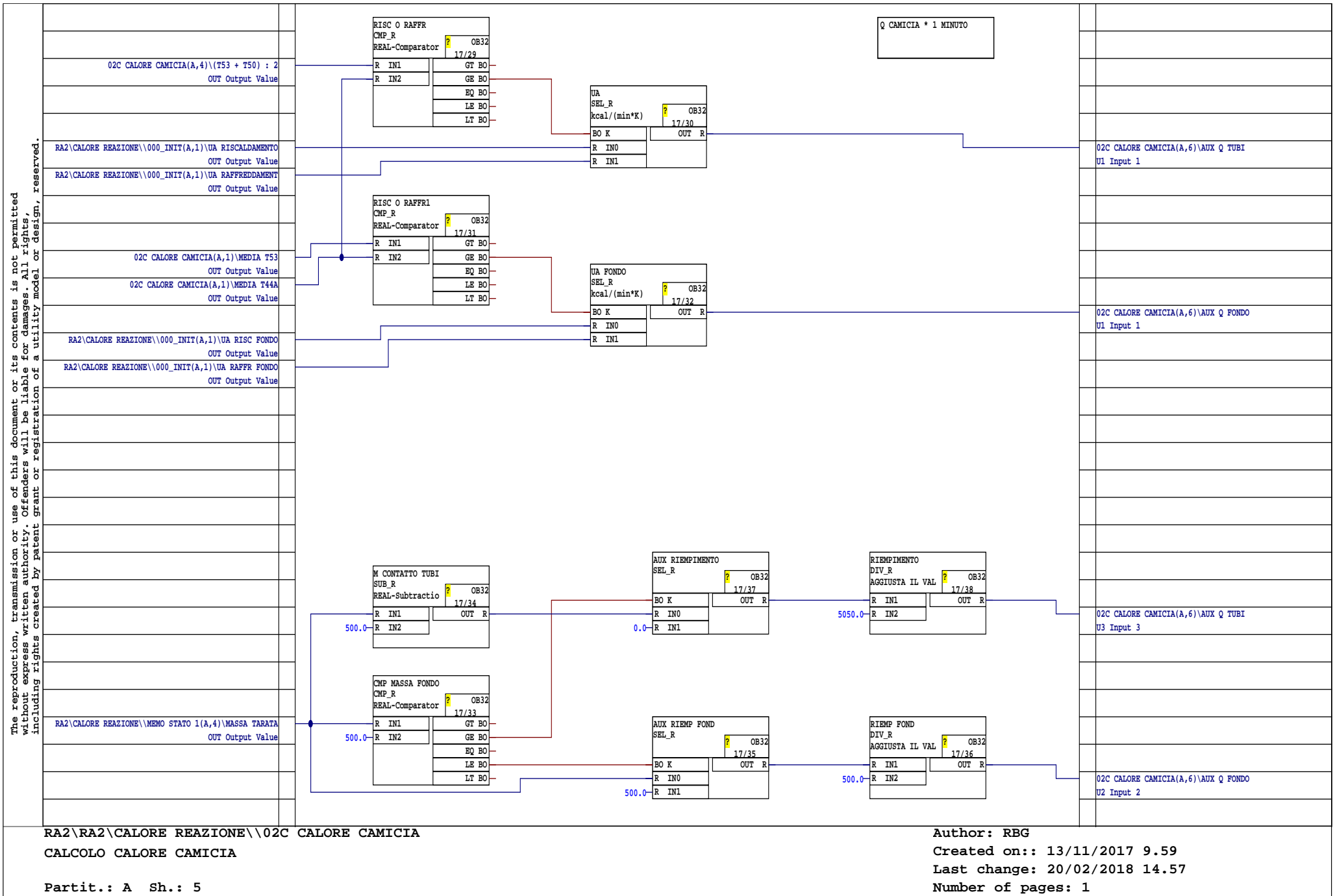
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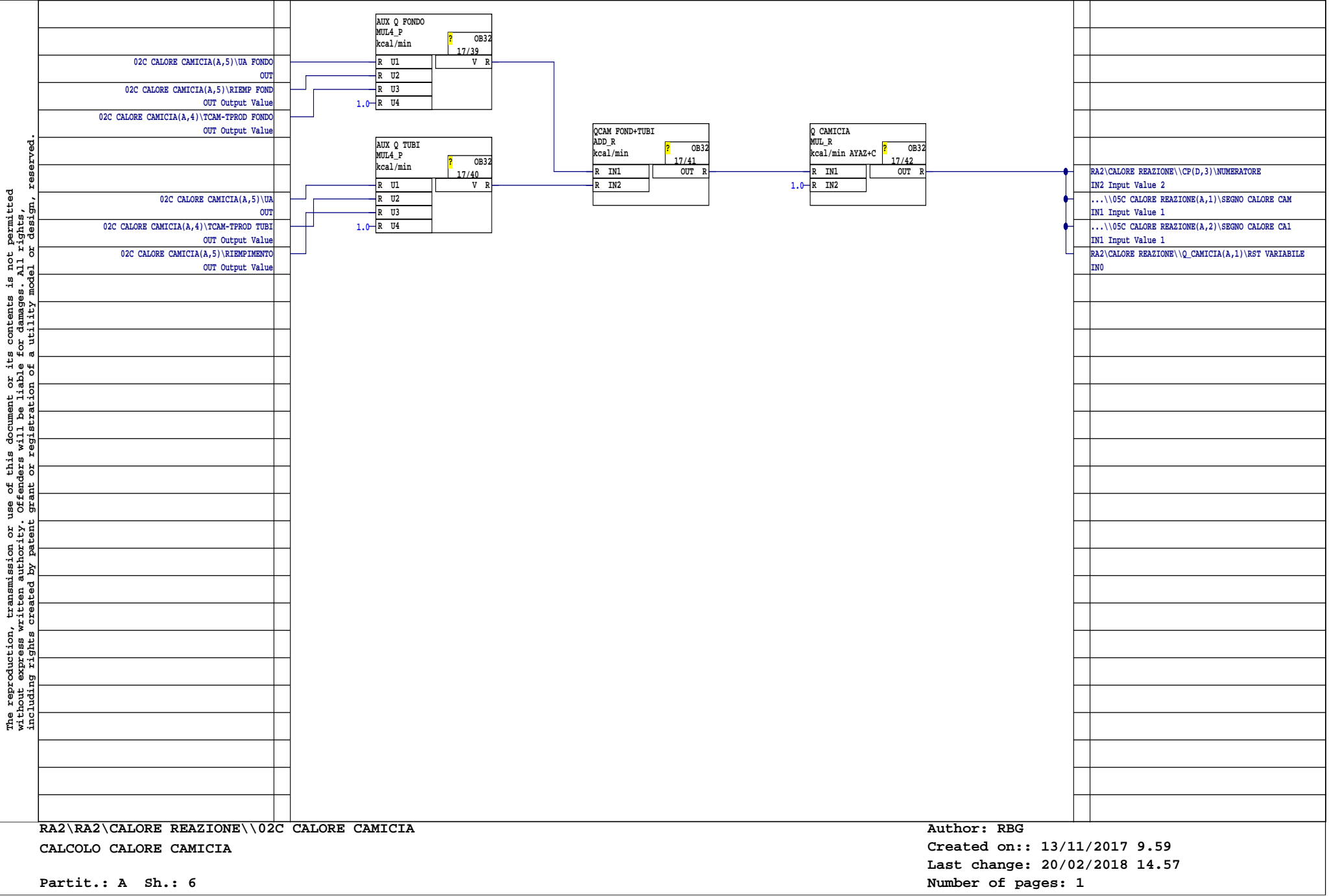


RA2\RA2\CALORE REAZIONE\02C	CALORE CAMICIA
CALCOLO CALORE CAMICIA	

Partit.: A Sh.: 4

Author: RBG
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Number of pages: 1





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Block 1: T44A(1)-T44A(0) SUB_R
AYAZ+CARENA 24/ 18/24
R IN1, R IN2, OUT R

Block 2: M*Cp MUL_R
AYAZ+CARENA 24/ 18/22
R IN1, R IN2, OUT R

Block 3: M*Cp+MrCpr ADD_R
AYAZ+CARENA 24/ 18/25
R IN1, R IN2, OUT R

Block 4: Mr*Cpr MUL_R
AYAZ+CARENA 24/ 18/23
R IN1, R IN2, OUT R

External Variables and Connections:
- RA2\CALORE REAZIONE\MEMO STATO 1(A,1)\T44A OUT Output Value connects to IN1 of Block 1.
- RA2\CALORE REAZIONE\MEMO STATO 0(A,1)\T44A OUT Output Value connects to IN2 of Block 1.
- RA2\CALORE REAZIONE\MEMO STATO 1(A,4)\MASSA TARATA OUT Output Value connects to IN1 of Block 2.
- RA2\CALORE REAZIONE\CP(A,5)\Cp,prod OUT Output Value connects to IN2 of Block 2.
- RA2\CALORE REAZIONE\000_INIT(A,1)\MASSA REATTORE OUT Output Value connects to IN1 of Block 4.
- RA2\CALORE REAZIONE\000_INIT(A,1)\CP REATTORE OUT Output Value connects to IN2 of Block 4.
- OUT of Block 1 connects to ENTALP SCAR IN2 Input Value 2.
- OUT of Block 2 connects to ENTALP SCAR IN1 Input Value 1.
- OUT of Block 4 connects to ENTALP SCAR IN1 Input Value 1.

RA2\RA2\CALORE REAZIONE\07C CALORE SCARICO
CALCOLO CALORE TEORICO PERSO DURANTE INA

Partit.: A Sh.: 2

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 10/01/2018 15.37
Number of pages: 1

RA2\RA2\CALORE REAZIONE\03C ENTALPIA MISCELAZ
CALCOLO ENTALPIA MISCELAZIONE

Partit.: A Sh.: 1

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 20/02/2018 14.59
Number of pages: 1

RA2\CALORE REAZIONE\MEMO STATO 0(A,2)\TT01
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 0(A,2)\TT02
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 0(A,2)\TT03
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 0(A,2)\TT04
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 0(A,2)\TT05
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 0(A,2)\TT06
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 0(A,2)\TT07
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 1(A,2)\TT01
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 1(A,2)\TT02
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 1(A,2)\TT03
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 1(A,2)\TT04
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 1(A,2)\TT05
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 1(A,2)\TT06
OUT Output Value

RA2\CALORE REAZIONE\MEMO STATO 1(A,2)\TT07
OUT Output Value

SEL TT AUX01
R_I
RBG 28NOV2003 19/1 OB32
R IN OUT I

TT (0) lo BLOCCO
MUX8_R
°C RBG 28NOV200 19/3 OB32
I K OUT R
R IN0
R IN1
R IN2
R IN3
R IN4
R IN5
R IN6
R IN7

SEL TT AUX02
SUB_I
INT-Subtraction 19/2 OB32
I IN1 OUT I
I IN2

TT (1) 2o BLOCCO
MUX8_R
°C RBG 28NOV200 19/6 OB32
I K OUT R
R IN0
R IN1
R IN2
R IN3
R IN4
R IN5
R IN6
R IN7

TT(0)
ADD_R
°C 19/7 OB32
R IN1 OUT R
R IN2

TT(1)
ADD_R
°C 19/8 OB32
R IN1 OUT R
R IN2

03C ENTALPIA MISCELAZ(A,4)\TT(0)+TT(1)
IN1 Input Value 1

03C ENTALPIA MISCELAZ(A,2)\DMIN*
IN2 Input Value 2

03C ENTALPIA MISCELAZ(A,2)\EQ TERMICO INIZI
IN0

...\\01C ENTALPIA FINALE(A,1)\EQ TERMICO INIZ
IN0

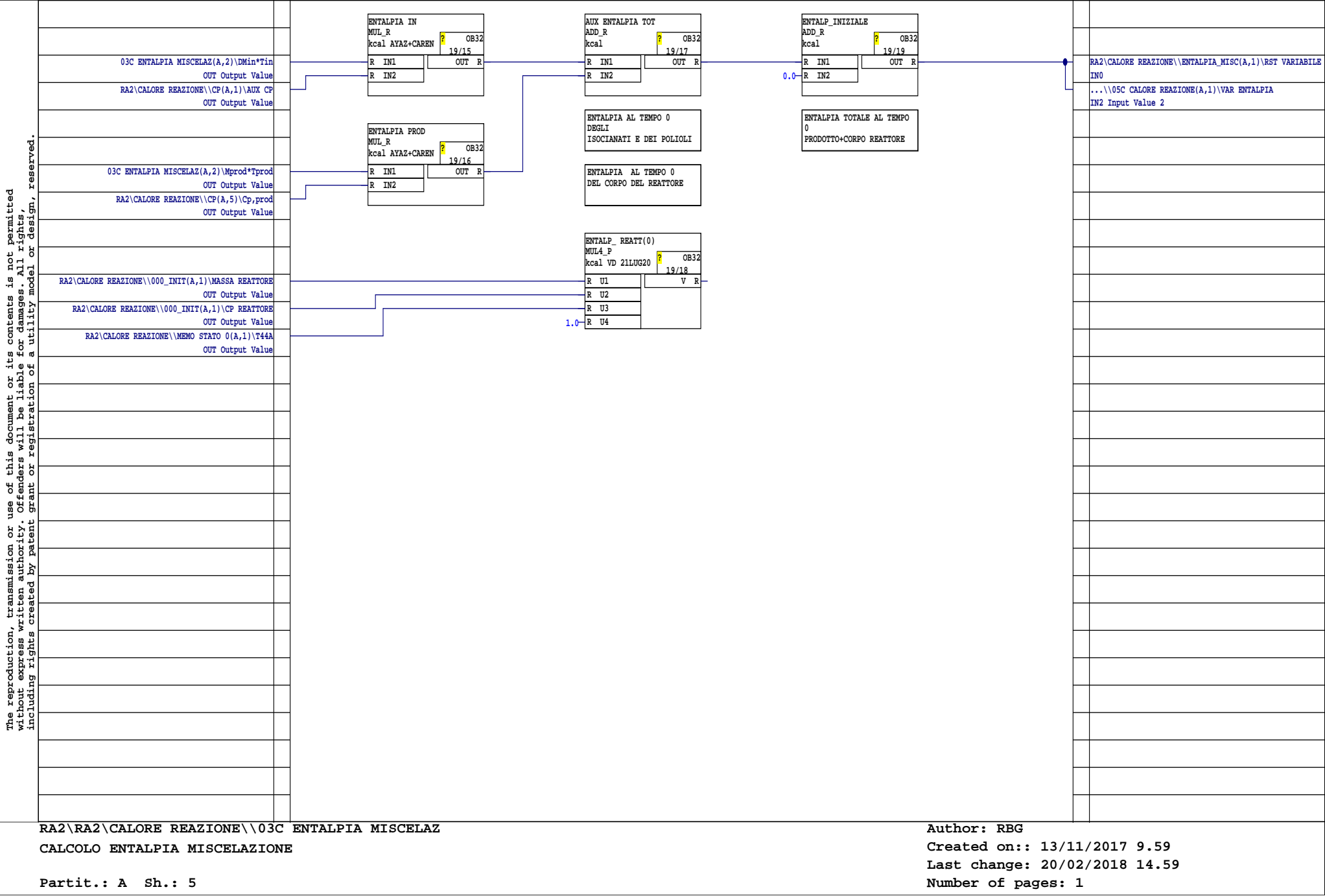
03C ENTALPIA MISCELAZ(A,4)\TT(0)+TT(1)
IN2 Input Value 2

RA2\RA2\CALORE REAZIONE\03C ENTALPIA MISCELAZ
CALCOLO ENTALPIA MISCELAZIONE

Partit.: A Sh.: 1

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 20/02/2018 14.59
Number of pages: 1

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	RA2\CALORE REAZIONE\MEMO STATO 1(A,4)\MASSA TARATA OUT Output Value		03C ENTALPIA MISCELAZ(A,5)\ENTALPIA IN IN1 Input Value 1
	RA2\CALORE REAZIONE\MEMO STATO 0(A,4)\MASSA TARATA OUT Output Value		
	RA2\CALORE REAZIONE\PASSO ATTIVO(B,1)\STATO 01 EQ		03C ENTALPIA MISCELAZ(A,5)\ENTALPIA PROD IN1 Input Value 1
	RA2\CALORE REAZIONE\MEMO STATO 0(A,1)\T44A OUT Output Value		
RA2\RA2\CALORE REAZIONE\\03C ENTALPIA MISCELAZ CALCOLO ENTALPIA MISCELAZIONE		Author: RBG Created on:: 13/11/2017 9.59 Last change: 20/02/2018 14.59 Number of pages: 1	
Partit.: A Sh.: 2			



RA2\RA2\CALORE REAZIONE\\03C ENTALPIA MISCELAZ
CALCOLO ENTALPIA MISCELAZIONE

Partit.: A Sh.: 5

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 20/02/2018 14.59
Number of pages: 1

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The diagram illustrates a process flow for 'CALCOLO ENTALPIA FINALE'. It features several data input/output blocks and a large text box.

Data Input/Output Blocks:

- Top Left:** A block with inputs 'RA2\CALORE REAZIONE\MEMO STATO 1(A,4)\MASSA TARATA' and 'OUT Output Value'.
- Top Right:** A block with inputs 'Mprod*Tprod', 'MUL_R', 'kg*K AYA2+CAREN', and 'OB32'. It has outputs 'R IN1', 'R IN2', and 'OUT R'.
- Bottom Left:** A block with inputs 'RA2\CALORE REAZIONE\PASSO ATTIVO(B,1)\STATO 01', 'EQ', 'RA2\CALORE REAZIONE\03C ENTALPIA MISCELAZ(A,1)\TT(1)', and 'OUT Output Value'. It also has an output 'RA2\CALORE REAZIONE\MEMO STATO 1(A,1)\T44A' and 'OUT Output Value'.
- Bottom Right:** A block with inputs 'EQ TERMICO INIZ', 'SEL_R', 'BO K', 'R IN0', and 'R IN1'. It has an output 'OUT R'.

Large Text Box (Center):

M.CARENA 18/12/2017
Ad inizio batch la temperatura del gas all'interno del reattore risulta essere solitamente più elevata della temperatura dell'isocianato caricato da serbatoio --> Genera calore di reazione fittizio.
Soluzione: durante il primo step del batch la temperatura del prodotto viene presa pari alla temperatura dell'isocianato entrante.

Flow Lines:

- A red line connects the 'RA2\CALORE REAZIONE\PASSO ATTIVO(B,1)\STATO 01' block to the 'EQ TERMICO INIZ' block.
- A blue line connects the 'OUT Output Value' of the 'RA2\CALORE REAZIONE\03C ENTALPIA MISCELAZ(A,1)\TT(1)' block to the 'R IN1' input of the 'EQ TERMICO INIZ' block.
- A blue line connects the 'OUT Output Value' of the 'RA2\CALORE REAZIONE\MEMO STATO 1(A,1)\T44A' block to the 'R IN1' input of the 'EQ TERMICO INIZ' block.
- A blue line connects the 'OUT R' output of the 'EQ TERMICO INIZ' block to the 'OUT R' output of the 'Mprod*Tprod' block.

Footer:

RA2\RA2\CALORE REAZIONE\01C ENTALPIA FINALE
CALCOLO ENTALPIA FINALE
Partit.: A Sh.: 1

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 19/02/2018 13.51
Number of pages: 1

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```
graph LR
    subgraph Inputs
        direction TB
        I1[01C ENTALPIA FINALE(A,1)\Mprod*Tprod  
OUT Output Value]
        I2[RA2\CALORE REAZIONE\CP(A,5)\Cp,prod  
OUT Output Value]
        I3[RA2\CALORE REAZIONE\000_INIT(A,1)\MASSA REATTORE  
OUT Output Value]
        I4[RA2\CALORE REAZIONE\000_INIT(A,1)\CP REATTORE  
OUT Output Value]
        I5[RA2\CALORE REAZIONE\MEMO STATO 1(A,1)\T44A  
OUT Output Value]
    end

    subgraph Blocks
        direction TB
        B1[ENTALPIA AL TEMPO 1 DEL CORPO DEL REATTORE]
        B2[AUX ENTALPIA TOT  
MUL_R  
kcal AYAZ+CAREN  
20/3]
        B3[ENTALPIA FINALE  
ADD_R  
kcal AYAZ+CAREN  
20/5]
        B4[ENTALPIA TOTALE AL TEMPO 1  
PRODOTTO+CORPO REATTORE]
        B5[ENTALP_REATT(1)  
MUL4_P  
kcal VD 21LUG20  
20/4]
    end

    B1 --> B2
    B2 -- 0.0 --> B3
    B3 --> B4
    B5 -- 1.0 --> B2
    I1 --> B2
    I2 --> B2
    I3 --> B5
    I4 --> B5
    I5 --> B5
```

RA2\RA2\CALORE REAZIONE\01C ENTALPIA FINALE

CALCOLO ENTALPIA FINALE

Partit.: A Sh.: 4

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 19/02/2018 13.51
Number of pages: 1

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```
graph LR
    subgraph VAR_ENTALPIA [VAR ENTALPIA]
        SUB_R[SUB_R]
        Kcal_min1[kcal/min]
        IN1[IN1]
        IN2[IN2]
        OUT1[OUT R]
        VAL1[22/1]
    end

    subgraph SEGNO_CALORE_CAM [SEGNO CALORE CAM]
        MUL_R[MUL_R]
        Kcal_min2[kcal/min]
        IN1_2[IN1]
        IN2_2[IN2]
        OUT2[OUT R]
        VAL2[22/2]
    end

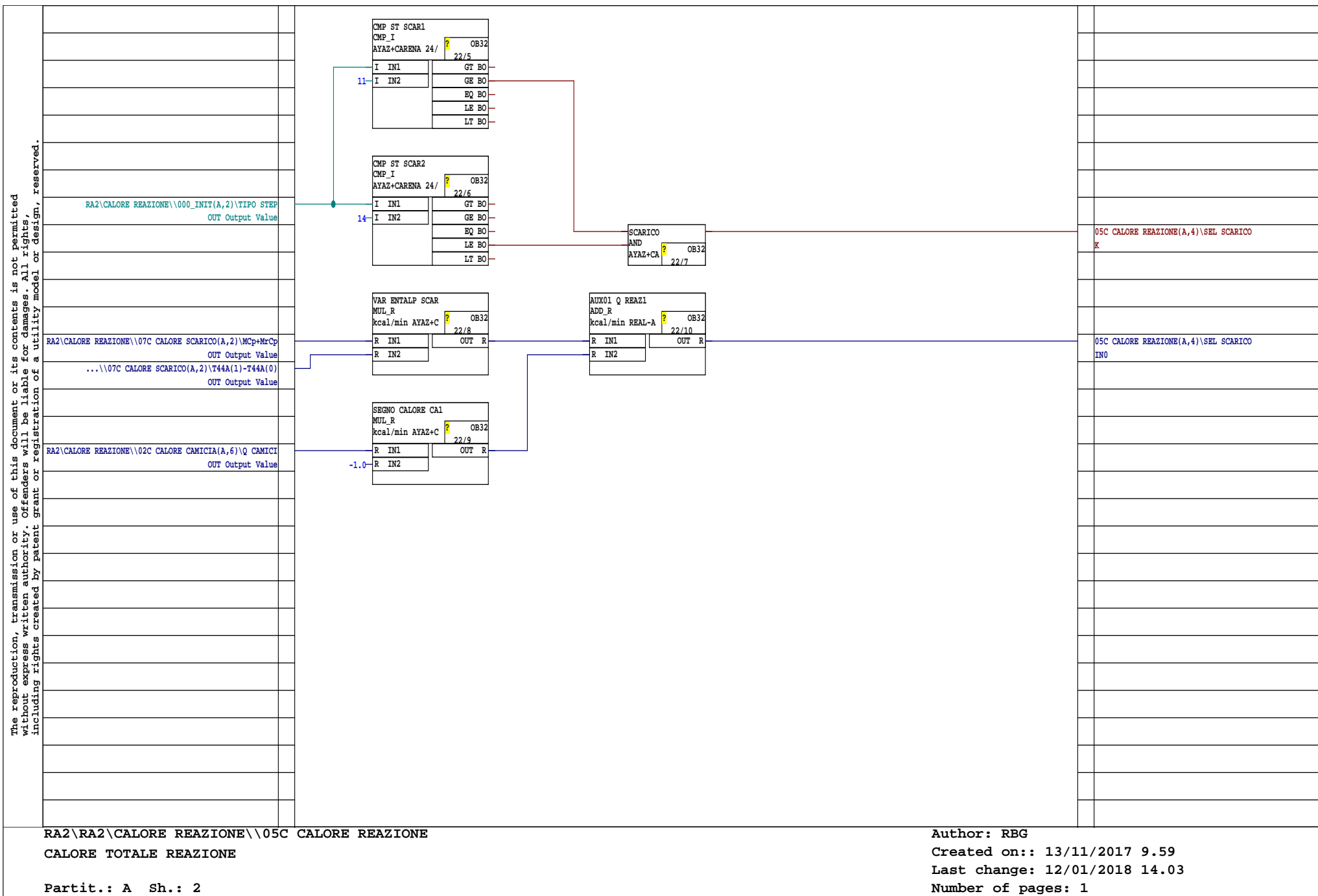
    subgraph SEGNO_CALORE_AGT [SEGNO CALORE AGT]
        MUL_R3[MUL_R]
        Kcal_min3[kcal/min]
        IN1_3[IN1]
        IN2_3[IN2]
        OUT3[OUT R]
        VAL3[22/3]
    end

    subgraph AUX02_Q_REAZ [AUX02 Q REAZ]
        ADD_R[ADD_R]
        Kcal_min4[kcal/min]
        IN1_4[IN1]
        IN2_4[IN2]
        OUT4[OUT R]
        VAL4[22/4]
    end

    J(( ))
    J --- J2(( ))

    J --- VAR_ENTALPIA
    J --- SEGNO_CALORE_CAM
    J --- SEGNO_CALORE_AGT
    J --- AUX02_Q_REAZ

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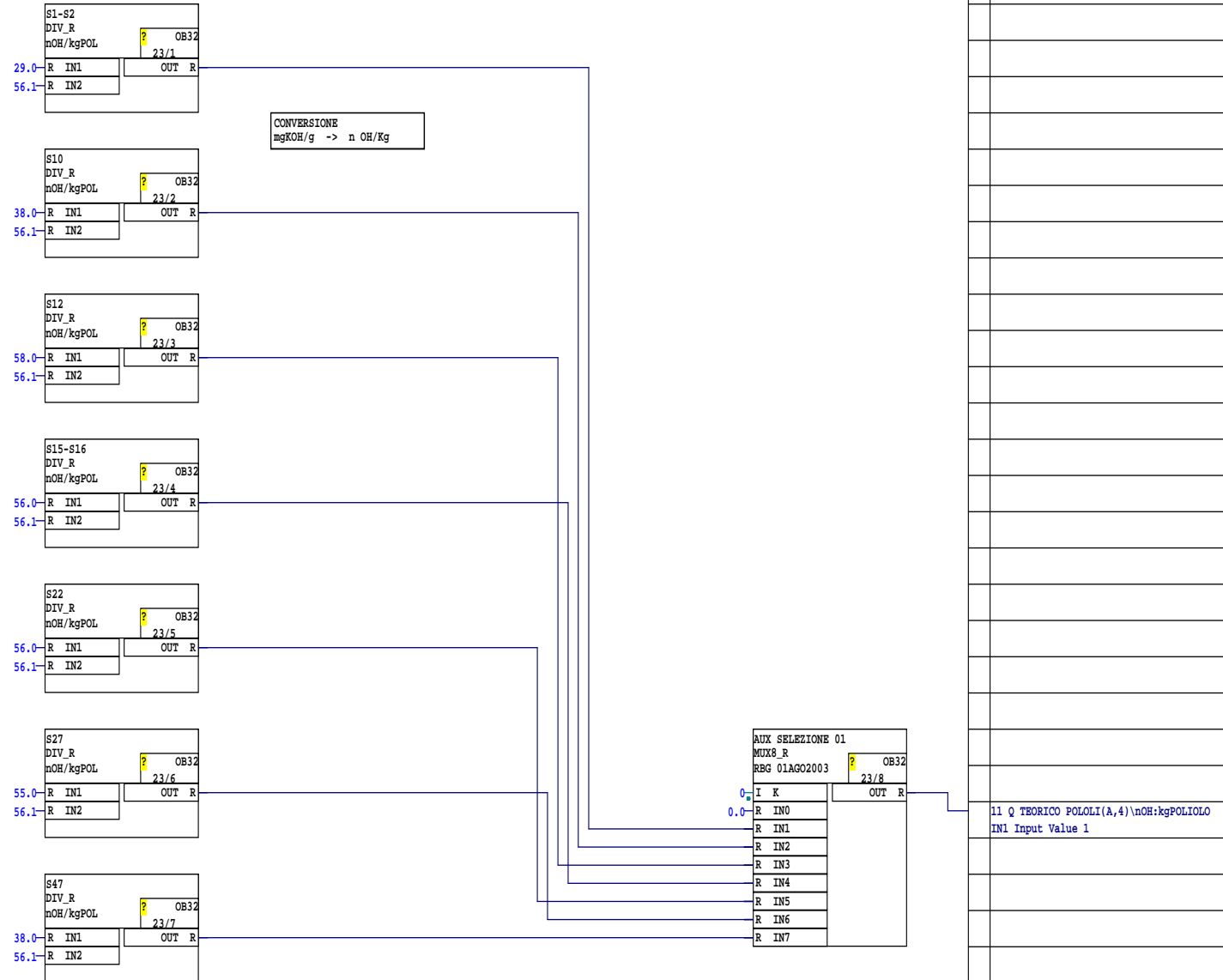


TABELLA CALORE TEORICO POLIOLI. PAG A. OH SERBATOI E CALCOLO CALORE TEORICO. PAG B. GESTIONE CARICO
POLIOLI DA POMPA
Partit.: A Sh.: 1

Created on:: 13/11/2017 9.59
Last change: 12/02/2018 10.44
Number of pages: 1

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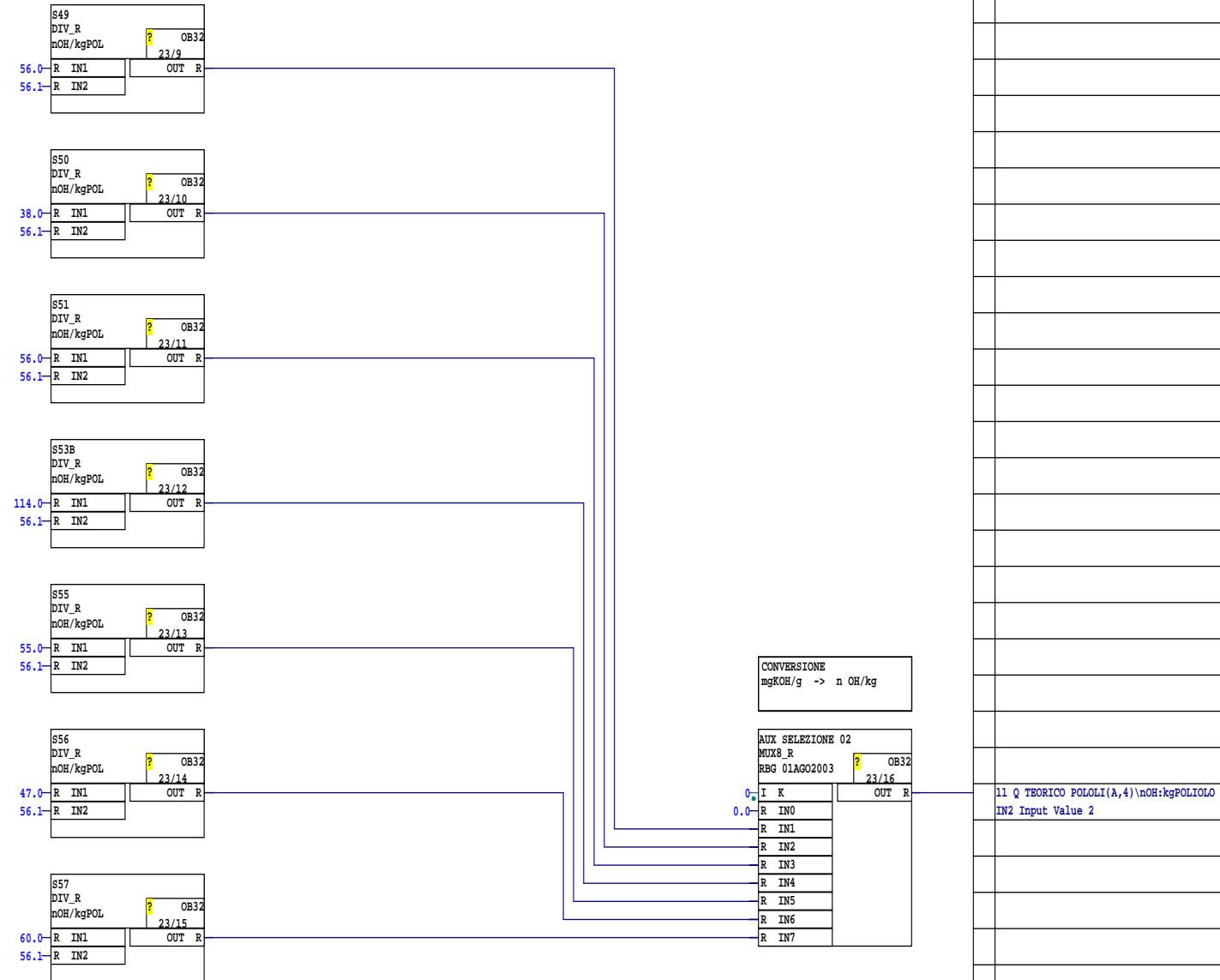
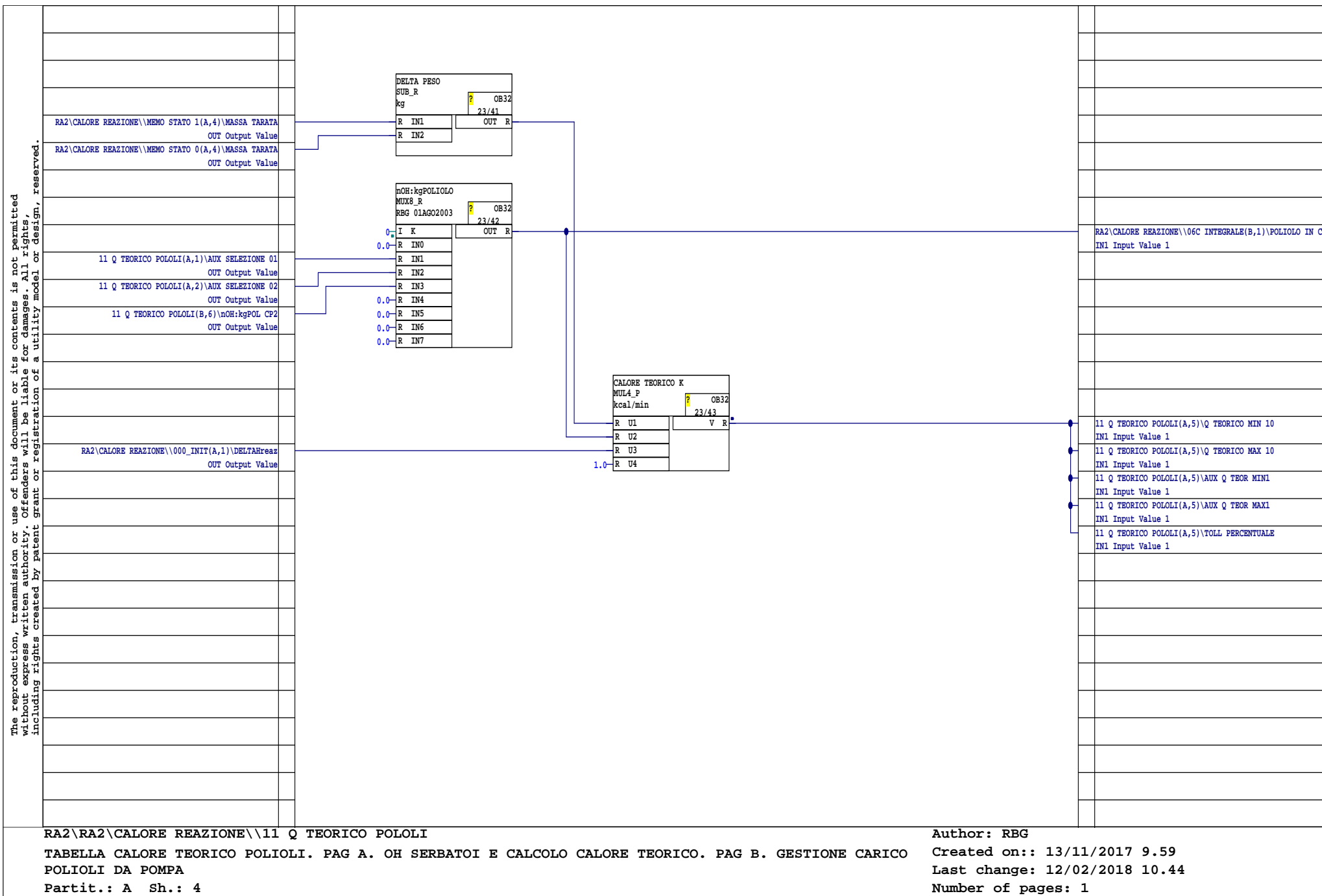


TABELLA CALORE TEORICO POLIOLI. PAG A. OH SERBATOI E CALCOLO CALORE TEORICO. PAG B. GESTIONE CARICO
POLIOLI DA POMPA
Partit.: A Sh.: 2

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11 Q TEORICO POLOLI(A,4)\CALORE TEORICO K
V Analog Output

0.1

TOLL PERCENTUALE
MUL_R
kcal/min
R IN1
R IN2
OUT R

Q TEORICO MAX 10
ADD_R
kcal/min
R IN1
R IN2
OUT R

Q TEORICO MIN 10
SUB_R
kcal/min
R IN1
R IN2
OUT R

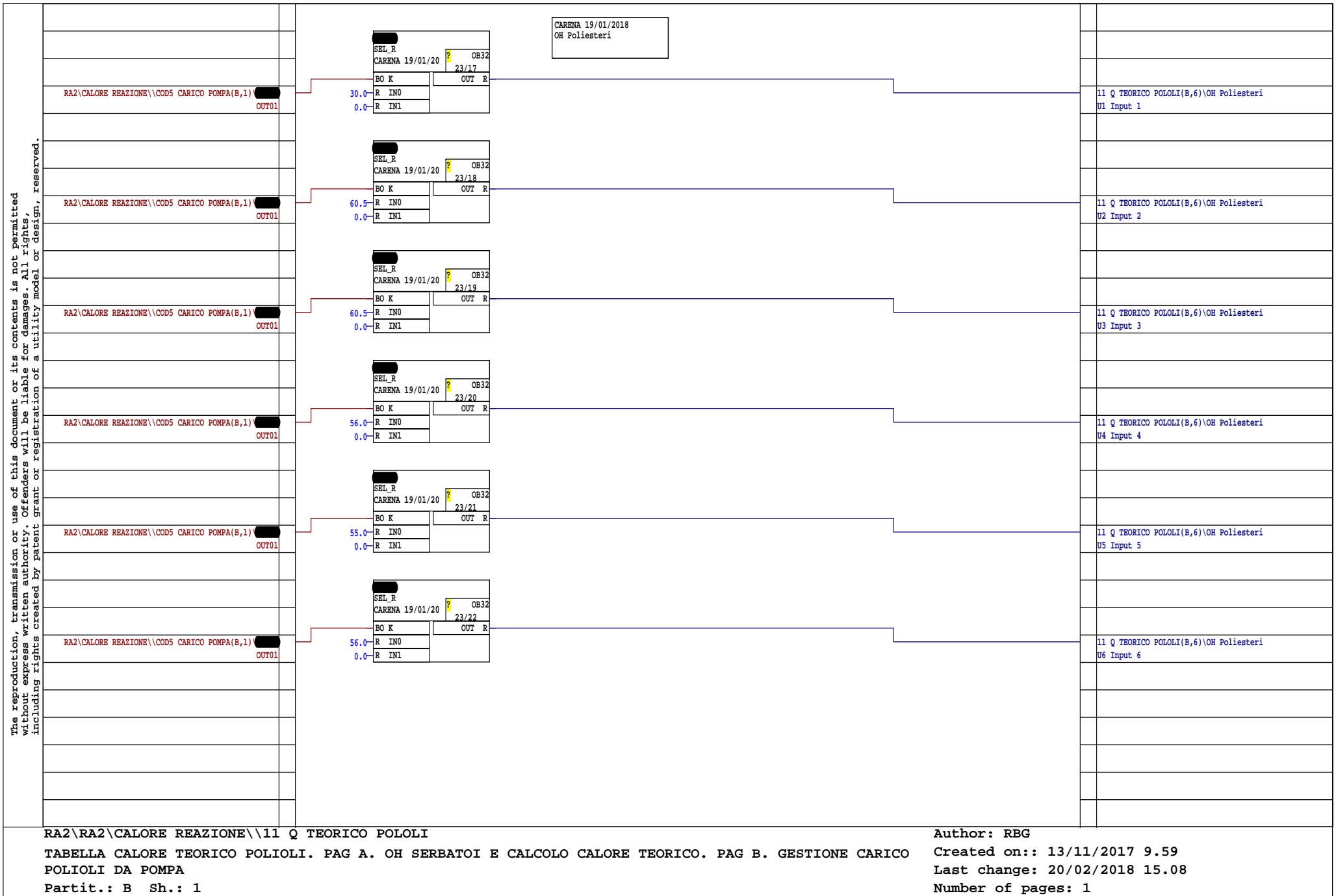
RA2\RA2\CALORE REAZIONE\\11 Q TEORICO POLOLI

TABELLA CALORE TEORICO POLIOLI. PAG A. OH SERBATOI E CALCOLO CALORE TEORICO. PAG B. GESTIONE CARICO POLIOLI DA POMPA

Partit.: A Sh.: 5

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 20/02/2018 15.08
Number of pages: 1

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RA2\CALORE REAZIONE\\COD5 CARICO POMPA(B,4) [REDACTED]
OUT01

SEL_R		OB32
Carena 19/01/20		23/17
BO K	OUT R	
0.0 R IN0		
0.0 R IN1		

Carena 19/01/2018
Cp Additivi

11 Q TEORICO POLOLI(B,6)\OH Additivi
U2 Input 2

RA2\RA2\CALORE REAZIONE\\11 Q TEORICO POLOLI

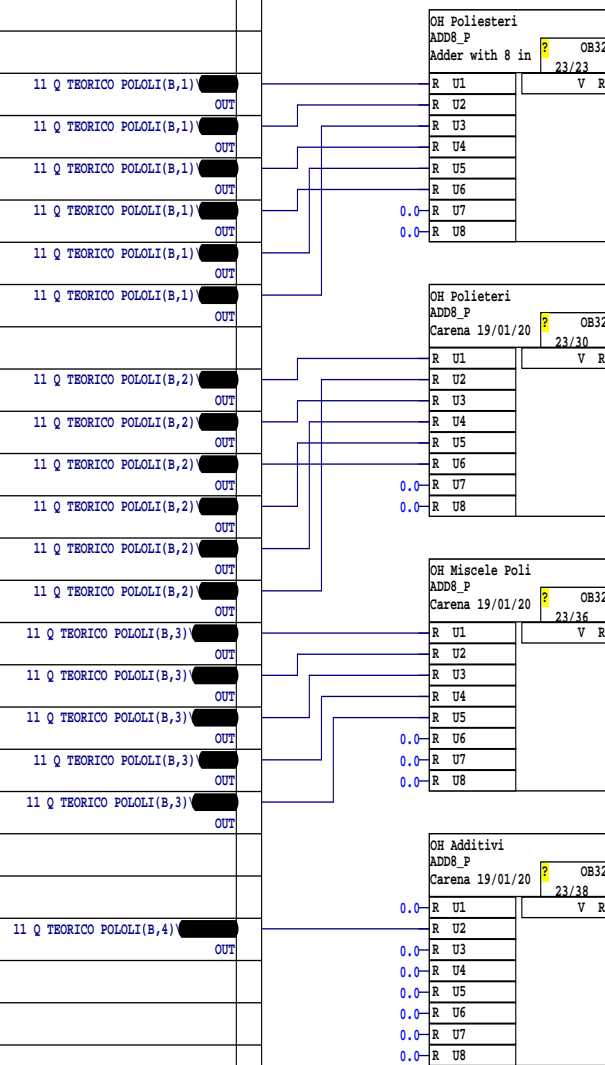
TABELLA CALORE TEORICO POLIOLI. PAG A. OH SERBATOI E CALCOLO CALORE TEORICO. PAG B. GESTIONE CARICO
POLIOLI DA POMPA
Partit.: B Sh.: 4

Author: RBG

Created on:: 13/11/2017 9.59

Last change: 20/02/2018 15.08

Number of pages: 1



11 Q TEORICO POLOLI(A,4)\nOH:kgPOLIOLO
IN3 Input Value 3

RA2\RA2\CALORE REAZIONE\\11 Q TEORICO POLOLI

TABELLA CALORE TEORICO POLIOLI. PAG A. OH SERBATOI E CALCOLO CALORE TEORICO. PAG B. GESTIONE CARICO
POLIOLI DA POMPA
Partit.: B Sh.: 6

Author: RBG

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RA2\RA2\CALORE REAZIONE\\06C INTEGRALE

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 16/02/2018 9.10
Number of pages: 1

Partit.: A Sh.: 1

Q INTEGRALE
ADD_R
kcal ? OB32
25/1
R IN1 OUT R
R IN2

Q MAX INTEGRALE
ADD_R
kcal RBG 09OCT2 ? OB32
25/2
R IN1 OUT R
R IN2

AUX Q MIN INT
ADD_R
kcal RBG 09OCT2 ? OB32
25/3
BO EN OUT R
R IN1
R IN2

Q MIN INTEGRALE
ADD_R
kcal ? OB32
25/4
R IN1 OUT R
R IN2

Q INTEGRALE TEOR
ADD_R
kcal ? OB32
25/5
R IN1 OUT R
R IN2

06C INTEGRALE(B,4)\Q MIN MEDIO
OUT

06C INTEGRALE(B,1)\ABIL Q TEOR MIN
Q

RA2\CALORE REAZIONE\\INTEGRALE(A,1)\INTEGRALE
U Analog Input (Measured Value)

RA2\STORAGE\STORAGE(A,6)\INTEGRALE
IN1 Input Value 1

...\\GENERAZIONE ALLARMI(A,1)\CALORE SCARSO
IN1 Input Value 1

...\\GENERAZIONE ALLARMI(A,1)\CALORE ECCESSIVO
IN1 Input Value 1

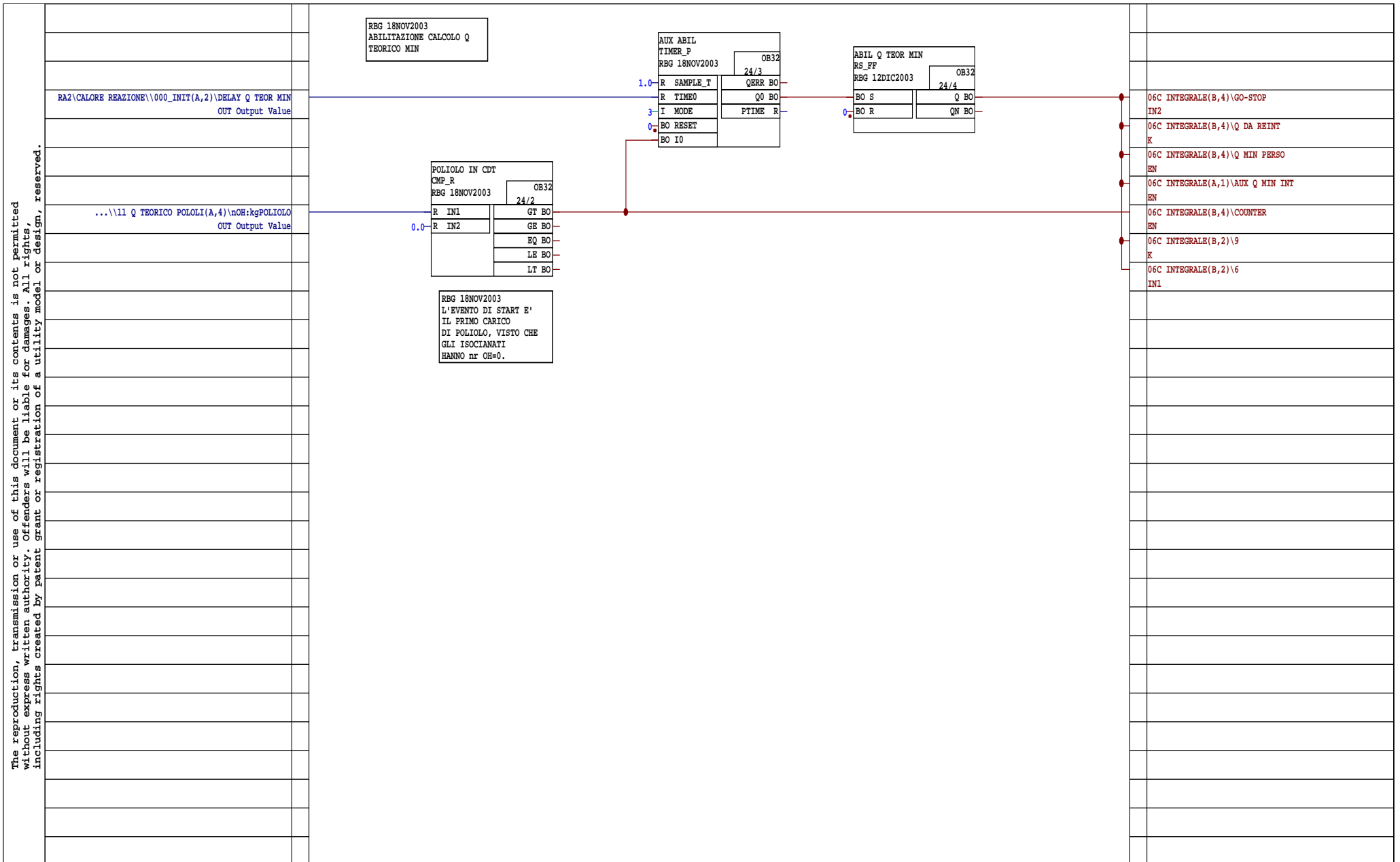
RA2\CALORE REAZIONE\\Q_TEO_MAX_POLI(A,1)\COSTANTE PO
IN1 Input Value 1

RA2\CALORE REAZIONE\\Q_TEO_MIN_POLI(A,1)\COSTANTE NE
IN1 Input Value 1

06C INTEGRALE(A,2)\Q MIN INTEGRALE1
IN1 Input Value 1

RA2\CALORE REAZIONE\\INTEGRALE(A,1)\INTEGRALE TEOR
U Analog Input (Measured Value)

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[illegible]

Partit.: B Sh.: 1

Author: RBG

Created on:: 13/11/2017 9.59

Last change: 16/02/2018 9.10

Number of pages: 1

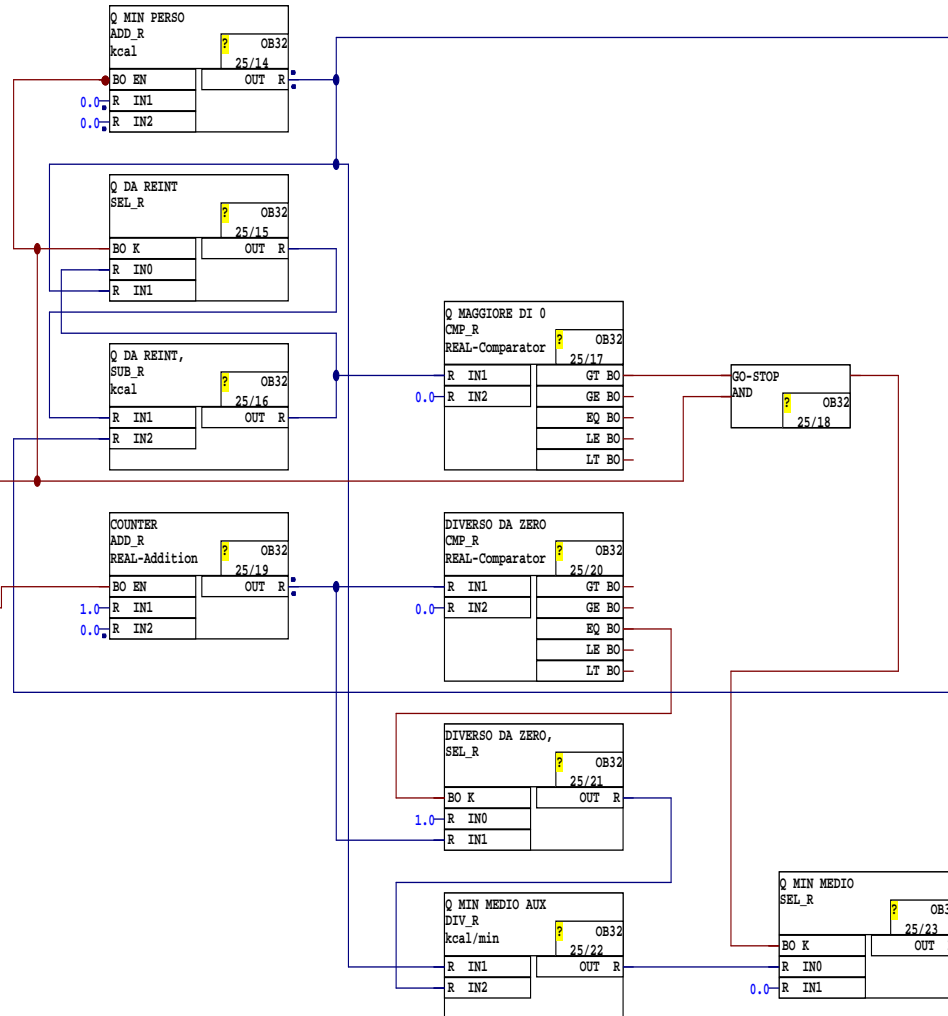
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06C INTEGRALE(B,1)\ABIL Q TEOR MIN

Q

06C INTEGRALE(B,1)\POLIOLO IN CDT

GT IN1>IN2



CARENA 2/1/2018
Il calore di
reazione minimo
viene calcolato con
ritardo e supponendo
un calore di
reazione costante
pari alla media
aritmetica del
calore di reazione
minimo sviluppato
durante il carico
del polioolo.

06C INTEGRALE(B,2)\9
IN1
06C INTEGRALE(B,2)\2
IN1 Input Value 1

06C INTEGRALE(A,1)\Q MIN INTEGRALE
IN2 Input Value 2

RA2\RA2\CALORE REAZIONE\\06C INTEGRALE

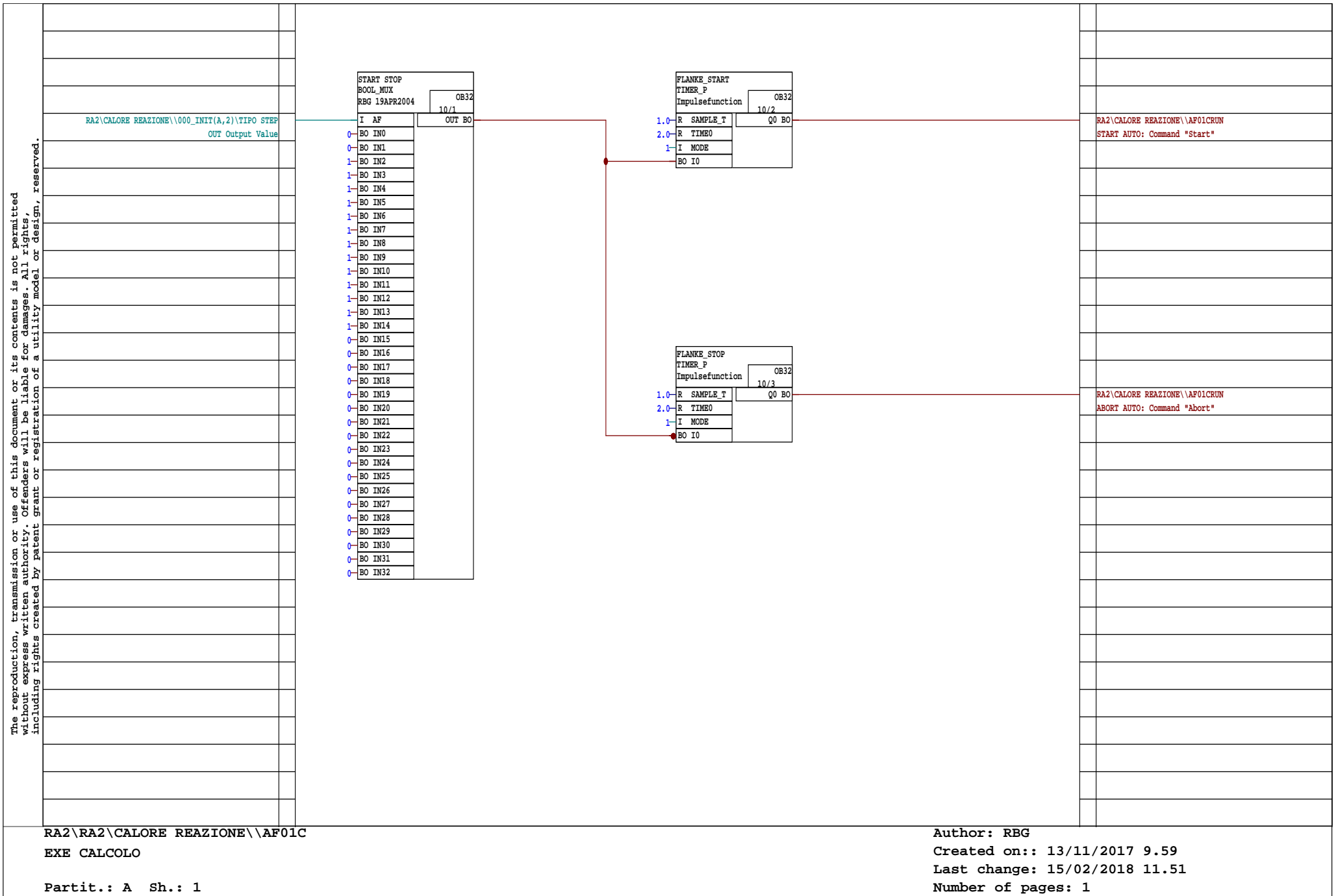
Author: RBG

Created on:: 13/11/2017 9.59

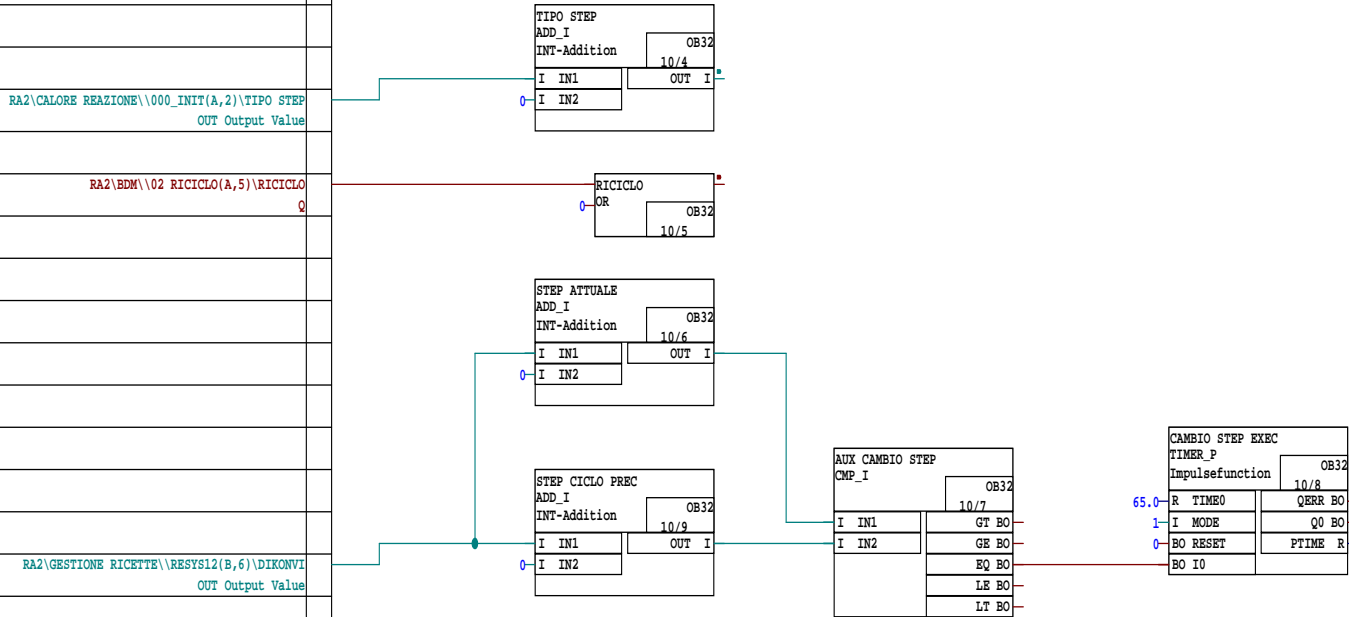
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Number of pages: 1

Partit.: B Sh.: 4



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```
RA2\RA2\CALORE REAZIONE\AF01C
EXE CALCOLO

Partit.: A  Sh.: 2
```

Author: RBG
Created on:: 13/11/2017 9.59
Last change: 15/02/2018 11.51
Number of pages: 1

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RA2\CALORE REAZIONE\\AF01C(A,1)\FLANKE_START
Q0 Output

RA2\CALORE REAZIONE\\AF01C(A,1)\FLANKE_STOP
Q0 Output

AF01CRUN		
EXE CALCOLO		OB32
		10/10
0	BO AUT	QAUTMAN BO
0	BO MAN	IDLE BO
0	BO START	STARTING BO
0	BO COMPLETE	RUN BO
0	BO HOLD	COMPLETIN BO
0	BO RESUME	ERROR_COM BO
0	BO ABORT	COMPLETED BO
0	BO STOP	HOLDING BO
0	BO RESTART	HELD BO
0	BO RESET	RESUMING BO
En Start	BO ENSTART	ERROR BO
0	BO LOCKCOMPL	HELD_ERRO BO
0	BO LOCKHOLD	RESU_ERRO BO
0	BO LOCKABORT	ABORTING BO
0	BO LOCKSTOP	ABORTED BO
0	BO LOCKERROR	STOPPING BO
7	BO SCT	STOPPED BO
0	BO SCT_TAC	QEXT_ERR BO
InstrOut	BO INSTRROUT	OP_ERR BO
0	BO CYCLEXEC	LI_ERR BO
0	BO TIMEMON	EXEC_ERR BO
0	BO EXT_ERR	ERRG BO
		T_OPRQG BO
		S_ERRG BO

RA2\RA2\CALORE REAZIONE\\AF01CRUN

EXE CALCOLO

Partit.: A Sh.: 1

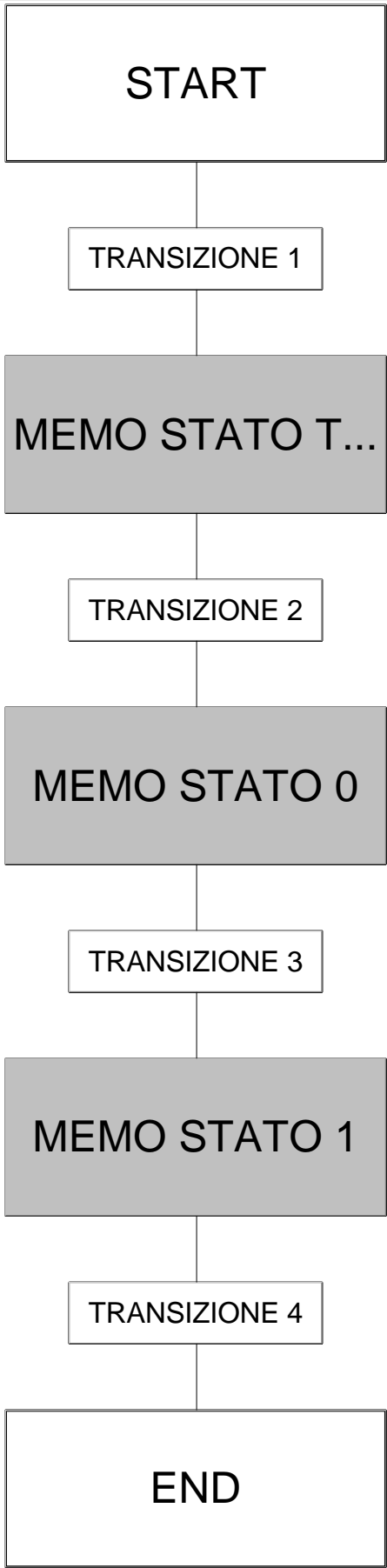
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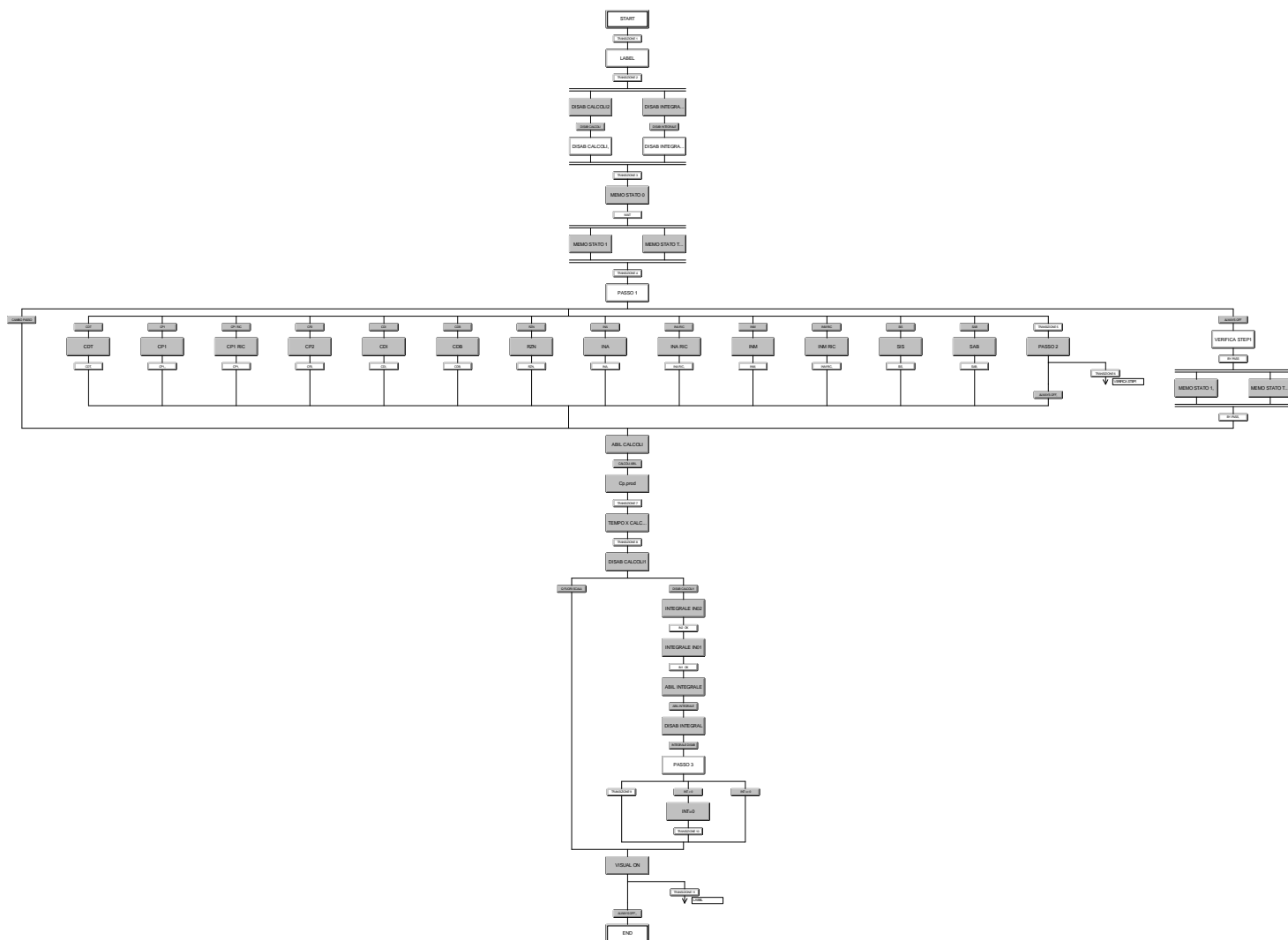
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