

## Identification

### Device

Order number 3UF7 010-1A\*00-0  
Short code SIMOCODE pro V  
Manufacturer SIEMENS AG  
PNO profile  
Device family Load feeder  
Device subfamily Motor Management System  
Device class  
Identification number  
HW version  
FW version  
Revision counter  
IaM version  
Supported IaM data  
Timestamp

### Marking

Plant identifier CN402  
Location designation  
Installation date  
Description

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# Device Configuration

Basic Unit SIMOCODE pro V  
Thermistor 0

## Modules

Current Measurement	10 - 100A
Digital Module 1	-
Digital Module 2	-
Operator Panel	0
Voltage Measurement	0
Temperature Module	0
Analog Module	0
Earth Fault Module	0
Configuration Fault because of missing Operator Panel	yes
Application (Control Function)	Direct starter

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## Bus Parameters

DP Address 27  
Transmission rate automatic

### Diagnosis

Diagnosis triggered by device fault 1  
Diagnosis triggered by trip 1  
Diagnosis triggered by warning 1  
Diagnosis triggered by event 0  
Start-up parameter block 1

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# Motor Protection

## Overload/Unbalance/Stall

### **Overload Protection**

Set Current Is1 55,00 A  
Ie1 transformer ratio - active 1  
Ie1 transformer ratio - numerator 0,000  
Ie1 transformer ratio - denominator 0  
Set Current Is2 0,00 A  
Ie2 transformer ratio - active 0  
Ie2 transformer ratio - numerator 0,000  
Ie2 transformer ratio - denominator 0  
Class 10  
Response at Trip Level tripping  
Cooling Down Period 300,0 s  
Pause Time 0,0 s  
Type of Load 3-phase  
Response at Pre-Warning Level (I>115%Is) warning  
Pre-Alarm Delay (I>115%Is) 0,5 s  
Reset Manual

### **Unbalance Protection**

Level 40 %  
Response warning  
Delay 0,5 s

### **Stalled Rotor**

Level 0 % of Is  
Response disabled  
Delay 0,5 s

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# Motor Control

## Control Station

### **Operation Mode Selector**

S1	Cyclic Receive - Bit 0.5
S2	Fixed Level - '1'

### **Local Control [LC]**

On<<	Not connected
On<	Not connected
Off	<b>Not connected</b>
On>	<b>Not connected</b>
On>>	Not connected

### **PLC/DCS [DP]**

On<<	Not connected
On<	Not connected
Off	<b>Cyclic Receive - Bit 0.1</b>
On>	<b>Cyclic Receive - Bit 0.2</b>
On>>	Not connected

### **PC [DPV1]**

On<<	Not connected
On<	Not connected
Off	<b>Not connected</b>
On>	<b>Not connected</b>
On>>	Not connected

### **Operator Panel [OP]**

<>/<>>	Not connected
On<	Not connected
Off	<b>Not connected</b>
On>	<b>Not connected</b>
On>>	Not connected

### **Releases Local 1**

Local Control [LC] - On	disabled
Local Control [LC] - Off	disabled
PLC/DCS [DP] - On	disabled
PLC/DCS [DP] - Off	disabled
PC [DPV1] - On	disabled

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PC [DPV1] - Off	disabled
Operator Panel [OP] - On	disabled
Operator Panel [OP] - Off	disabled

## Releases Local 2

Local Control [LC] - On	disabled
Local Control [LC] - Off	disabled
PLC/DCS [DP] - On	disabled
PLC/DCS [DP] - Off	disabled
PC [DPV1] - On	disabled
PC [DPV1] - Off	disabled
Operator Panel [OP] - On	disabled
Operator Panel [OP] - Off	disabled

## Releases Local 3

Local Control [LC] - On	disabled
Local Control [LC] - Off	disabled
PLC/DCS [DP] - On	disabled
PLC/DCS [DP] - Off	disabled
PC [DPV1] - On	disabled
PC [DPV1] - Off	disabled
Operator Panel [OP] - On	disabled
Operator Panel [OP] - Off	disabled

## Releases Remote

Local Control [LC] - On	disabled
Local Control [LC] - Off	disabled
PLC/DCS [DP] - On	enabled
PLC/DCS [DP] - Off	enabled
PC [DPV1] - On	disabled
PC [DPV1] - Off	disabled
Operator Panel [OP] - On	disabled
Operator Panel [OP] - Off	disabled

## Control Function

### Operating Mode

Non-Maintained Command Mode	0
Saving Change-Over Command	0
Type of Consumer Load	Motor

### Control Commands

On<<	Not connected
On<	Not connected

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<b>Off</b>	<b>Released Control Command - Off</b>
<b>On&gt;</b>	<b>Released Control Command - On&gt;</b>
<b>On&gt;&gt;</b>	<b>Not connected</b>

## Auxiliary Control Inputs

<b>Feedback On</b>	<b>Status - Motor Current Flowing</b>
Feedback Closed (FC)	Not connected
Feedback Open (F0)	Not connected
Torque Closed (TC)	Not connected
Torque Open (TO)	Not connected

## Timings

<b>Feedback Time</b>	<b>0,5 s</b>
<b>Execution Time</b>	<b>1,0 s</b>
Interlocking Time	0 s
Change-over pause	0,00 s

## Star-delta

Max. Star Time	20 s
Current Measuring Module installed	Delta

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# Monitoring Functions

## Earth Fault

## **Internal Earth Fault**

Response disabled  
Delay 0,5 s

## **External Earth Fault**

Response signalling  
Delay 0,5 s

## Current Limits

**I > (upper limit)**

Trip Level	0 % of Is
Response at Trip Level	disabled
Trip Delay	0,5 s
Warning Level	0 % of Is
Response at Warning Level	disabled
Warning Delay	0,5 s

I < (lower limit)

Trip Level	0 % of Is
Response at Trip Level	disabled
Trip Delay	0,5 s
Warning Level	0 % of Is
Response at Warning Level	disabled
Warning Delay	0,5 s
Hysteresis for Current Limits	5 % of adjusted level

## **Operating Hours Monitoring**

# **Motor Operating Hours Monitoring**

Level 0 h  
Response disabled

## **Motor Stop Time Monitoring**

Level 0 h  
Response disabled

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## **Motor Start Limitation**

Permissible Starts	1
Time Range for Starts	00:00:00 hh:mm:ss
Response at Overshoot	disabled
Response at Pre-Warning	disabled
Interlocking Time	00:00:00 hh:mm:ss

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# Inputs

## Basic Unit - Inputs

Delays                            16 ms

## Digital Modules - Inputs

Delays                            16 ms

## Analog Module - Inputs

Input Signal                    0-20mA  
Response at Open Circuit    warning  
Active Inputs                  1 Input

## Temperature Module - Inputs

Sensor type                    PT100  
Response at Sensor Fault/ Out of Range    warning  
Active Sensors                3 Sensors

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# Outputs

## Basic Unit

BU - Output 1	Contactor Control - 1 QE1
BU - Output 2	Cyclic Receive - Bit 1.1
BU - Output 3	Cyclic Receive - Bit 1.2

## Cyclic Send Data

### **Byte 0**

Bit 0	Not connected
Bit 1	Status - Off
Bit 2	Status - On>
Bit 3	Event - Overload Operation (I>115%Is)
Bit 4	Not connected
Bit 5	Status - Remote Mode
Bit 6	Status - General Fault
Bit 7	Status - General Warning

### **Byte 1**

Bit 0	BU - Input 1
Bit 1	BU - Input 2
Bit 2	BU - Input 3
Bit 3	BU - Input 4
Bit 4	Fixed Level - '1'
Bit 5	Fixed Level - '0'
Bit 6	Fixed Level - '0'
Bit 7	Fixed Level - '1'
Byte 2/3 (Analog Value)	max. Current I_max
Byte 4/5 (Analog Value)	Cyclic Receive - Analog Value
Byte 6/7 (Analog Value)	calculation module 1 - output
Byte 8/9 (Analog Value)	Last Trip Current

## Acyclic Send Data

### **Byte 0**

Bit 0	Not connected
Bit 1	Not connected
Bit 2	Not connected
Bit 3	Not connected
Bit 4	Not connected

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Bit 5	Not connected
Bit 6	Not connected
Bit 7	Not connected

### Byte 1

Bit 0	Not connected
Bit 1	Not connected
Bit 2	Not connected
Bit 3	Not connected
Bit 4	Not connected
Bit 5	Not connected
Bit 6	Not connected
Bit 7	Not connected

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## Standard Functions

### Test/ Reset

Test/Reset - Button blocked                    0

#### Test 1

Test - Input                                      Cyclic Receive - Bit 0.3

#### Test 2

Test - Input                                      Not connected

#### Reset 1

Reset - Input                                      Cyclic Receive - Bit 0.6

#### Reset 2

Reset - Input                                      Not connected

#### Reset 3

Reset - Input                                      Not connected

### Test Position Feedback (TPF)

Type    normally open (NO)

Test Position Feedback (TPF) - Input    Not connected

### External Fault

#### External Fault 1

External Fault - Input                              Not connected

External Fault - Reset                              Not connected

Response    signalling

Type     normally open (NO)

Activity    always

External Fault - Reset also by                      Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3

Marking

#### External Fault 2

External Fault - Input                              Not connected

External Fault - Reset                              Not connected

Response    signalling

Type     normally open (NO)

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**Activity** always  
**External Fault - Reset also by** Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3  
**Marking**

### External Fault 3

**External Fault - Input** Not connected  
**External Fault - Reset** Not connected  
**Response** signalling  
**Type** normally open (NO)  
**Activity** always  
**External Fault - Reset also by** Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3  
**Marking**

### External Fault 4

**External Fault - Input** Not connected  
**External Fault - Reset** Not connected  
**Response** signalling  
**Type** normally open (NO)  
**Activity** always  
**External Fault - Reset also by** Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3  
**Marking**

### External Fault 5

**External Fault - Input** Not connected  
**External Fault - Reset** Not connected  
**Response** signalling  
**Type** normally open (NO)  
**Activity** always  
**External Fault - Reset also by** Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3  
**Marking**

### External Fault 6

**External Fault - Input** Not connected  
**External Fault - Reset** Not connected  
**Response** signalling  
**Type** normally open (NO)  
**Activity** always  
**External Fault - Reset also by** Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3  
**Marking**

## Operational Protection Off (OPO)

**Operational Protection Off - Input** Not connected  
**Reaction positioner** closed  
**Type** normally open (NO)

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## Power Failure Monitoring (UVO)

Power Failure Monitoring - Method deactivated  
Power Failure Time 0,0 s  
Restart Time Delay 0 s  
Addressing external Power Failure Monitoring Not connected

## Emergency Start

Emergency Start - Input Cyclic Receive - Bit 0.4

## Watchdog (PLC/DCS Monitoring)

Bus Monitoring 1  
PLC/DCS Monitoring - Input Not connected  
PLC/DCS Monitoring 1  
Bus/PLC-Fault - Reset Manual

## Timestamping

Timestamping active 0  
Timestamping - Input 0 Not connected  
Timestamping - Input 1 Not connected  
Timestamping - Input 2 Not connected  
Timestamping - Input 3 Not connected  
Timestamping - Input 4 Not connected  
Timestamping - Input 5 Not connected  
Timestamping - Input 6 Not connected  
Timestamping - Input 7 Not connected

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# Logic Modules

## Truth Table 3I/1O

### Truth Table 1 3I/1O

Truth Table -	Input 1	Not connected
Truth Table -	Input 2	Not connected
Truth Table -	Input 3	Not connected

Logic

I1	I2	I3	O1
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

### Truth Table 2 3I/1O

Truth Table -	Input 1	Not connected
Truth Table -	Input 2	Not connected
Truth Table -	Input 3	Not connected

Logic

I1	I2	I3	O1
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

### Truth Table 3 3I/1O

Truth Table -	Input 1	Not connected
Truth Table -	Input 2	Not connected
Truth Table -	Input 3	Not connected

Logic

I1	I2	I3	O1
0	0	0	0
0	0	1	0
0	1	0	0

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I1	I2	I3	O1
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

### Truth Table 4 3I/1O

Truth Table -      Input 1      Not connected  
 Truth Table -      Input 2      Not connected  
 Truth Table -      Input 3      Not connected

#### Logic

I1	I2	I3	O1
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

### Truth Table 5 3I/1O

Truth Table -      Input 1      Not connected  
 Truth Table -      Input 2      Not connected  
 Truth Table -      Input 3      Not connected

#### Logic

I1	I2	I3	O1
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

### Truth Table 6 3I/1O

Truth Table -      Input 1      Not connected  
 Truth Table -      Input 2      Not connected  
 Truth Table -      Input 3      Not connected

#### Logic

I1	I2	I3	O1
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0

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I1	I2	I3	O1
1	0	1	0
1	1	0	0
1	1	1	0

## Truth Table 2I/1O

### Truth Table 7 2I/1O

Truth Table - Input 1      Not connected  
 Truth Table - Input 2      Not connected

#### Logic

I1	I2	O1
0	0	0
0	1	0
1	0	0
1	1	0

## Truth Table 8 2I/1O

Truth Table - Input 1      Not connected  
 Truth Table - Input 2      Not connected

#### Logic

I1	I2	O1
0	0	0
0	1	0
1	0	0
1	1	0

## Truth Table 5I/2O

### Truth Table 9 5I/2O

Truth Table - Input 1      Not connected  
 Truth Table - Input 2      Not connected  
 Truth Table - Input 3      Not connected  
 Truth Table - Input 4      Not connected  
 Truth Table - Input 5      Not connected

#### Logic Output 1 Logic Output 2

I1	I2	I3	I4	I5	O1	O2
0	0	0	0	0	0	0
0	0	0	0	1	0	0
0	0	0	1	0	0	0
0	0	0	1	1	0	0
0	0	1	0	0	0	0
0	0	1	0	1	0	0
0	0	1	1	0	0	0
0	0	1	1	1	0	0

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I1	I2	I3	I4	I5	O1	O2
0	1	0	0	0	0	0
0	1	0	0	1	0	0
0	1	0	1	0	0	0
0	1	0	1	1	0	0
0	1	1	0	0	0	0
0	1	1	0	1	0	0
0	1	1	1	0	0	0
0	1	1	1	1	0	0
1	0	0	0	0	0	0
1	0	0	0	1	0	0
1	0	0	1	0	0	0
1	0	0	1	1	0	0
1	0	1	0	0	0	0
1	0	1	0	1	0	0
1	0	1	1	0	0	0
1	1	0	0	0	0	0
1	1	0	0	1	0	0
1	1	0	1	0	0	0
1	1	0	1	1	0	0
1	1	1	0	0	0	0
1	1	1	0	1	0	0
1	1	1	1	0	0	0
1	1	1	1	1	0	0

## Counter

## Counter 1

Counter - Limit	0
Counter - Input +	Not connected
Counter - Input -	Not connected
Counter - Reset	Not connected

## Counter 2

Counter - Limit	0
Counter - Input +	Not connected
Counter - Input -	Not connected
Counter - Reset	Not connected

### Counter 3

Counter - Limit	0
Counter - Input +	Not connected
Counter - Input -	Not connected
Counter - Reset	Not connected

## Counter 4

Counter - Limit	0
Counter - Input +	Not connected

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Counter - Input - Not connected  
Counter - Reset Not connected

## Timer

### Timer 1

Timer - Type with closing delay  
Timer - Limit 0,0 s  
Timer - Input Not connected  
Timer - Reset Not connected

### Timer 2

Timer - Type with closing delay  
Timer - Limit 0,0 s  
Timer - Input Not connected  
Timer - Reset Not connected

### Timer 3

Timer - Type with closing delay  
Timer - Limit 0,0 s  
Timer - Input Not connected  
Timer - Reset Not connected

### Timer 4

Timer - Type with closing delay  
Timer - Limit 0,0 s  
Timer - Input Not connected  
Timer - Reset Not connected

## Signal Conditioner

### Signal Conditioner 1

Signal Conditioner - Type non inverting  
Signal Conditioner - Input Not connected  
Signal Conditioner - Reset Not connected

### Signal Conditioner 2

Signal Conditioner - Type non inverting  
Signal Conditioner - Input Not connected  
Signal Conditioner - Reset Not connected

### Signal Conditioner 3

Signal Conditioner - Type non inverting

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Signal Conditioner - Input                          Not connected  
Signal Conditioner - Reset                          Not connected

#### Signal Conditioner 4

Signal Conditioner - Type                          non inverting  
Signal Conditioner - Input                          Not connected  
Signal Conditioner - Reset                          Not connected

### Non-Volatile Element

#### Non-Volatile Element 1

Non-Volatile Element - Type                          non inverting  
Non-Volatile Element - Input                          Not connected  
Non-Volatile Element - Reset                          Not connected

#### Non-Volatile Element 2

Non-Volatile Element - Type                          non inverting  
Non-Volatile Element - Input                          Not connected  
Non-Volatile Element - Reset                          Not connected

#### Non-Volatile Element 3

Non-Volatile Element - Type                          non inverting  
Non-Volatile Element - Input                          Not connected  
Non-Volatile Element - Reset                          Not connected

#### Non-Volatile Element 4

Non-Volatile Element - Type                          non inverting  
Non-Volatile Element - Input                          Not connected  
Non-Volatile Element - Reset                          Not connected

### Flashing

#### Flashing 1

Flashing - Input    Not connected

#### Flashing 2

Flashing - Input    Not connected

#### Flashing 3

Flashing - Input    Not connected

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## Flickering

### Flickering 1

Flickering - Input                          Not connected

### Flickering 2

Flickering - Input                          Not connected

### Flickering 3

Flickering - Input                          Not connected

## Limit Monitor

Hysteresis for Limit Monitors            5 % of adjusted level

### Limit Monitor 1

Limit Monitor - Input	Not connected
Type	> (Overshoot)
Activity	always (on)
Limit	0
Delay	0,5 s
Marking	

### Limit Monitor 2

Limit Monitor - Input	Not connected
Type	> (Overshoot)
Activity	always (on)
Limit	0
Delay	0,5 s
Marking	

### Limit Monitor 3

Limit Monitor - Input	Not connected
Type	> (Overshoot)
Activity	always (on)
Limit	0
Delay	0,5 s
Marking	

### Limit Monitor 4

Limit Monitor - Input	Not connected
Type	> (Overshoot)
Activity	always (on)

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<b>Limit</b>	<b>0</b>
<b>Delay</b>	<b>0,5 s</b>
<b>Marking</b>	

## Calculation modules

### Calculation module 1

<b>Calculation module 1 - input</b>	<b>Cyclic Receive - Analog Value</b>
<b>Calculation module 1 - numerator</b>	<b>1</b>
<b>Calculation module 1 - denominator</b>	<b>100</b>
<b>Calculation module 1 - offset</b>	<b>0</b>

### Calculation module 2

<b>Calculation module 2 - operation mode</b>	<b>Both inputs of type word</b>
<b>Calculation module 2 - input 1</b>	<b>Not connected</b>
<b>Calculation module 2 - numerator 1</b>	<b>0</b>
<b>Calculation module 2 - denominator 1</b>	<b>0</b>
<b>Calculation module 2 - operator</b>	<b>+ (Addition)</b>
<b>Calculation module 2 - input 2</b>	<b>Not connected</b>
<b>Calculation module 2 - numerator 2</b>	<b>0</b>
<b>Calculation module 2 - denominator 2</b>	<b>0</b>
<b>Calculation module 2 - offset</b>	<b>0</b>

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	<u>Approved by:</u>		<table> <tr> <td><u>Mod.:</u></td><td><u>Issue date:</u></td><td><u>Lang.:</u></td><td><u>Page:</u></td></tr> <tr> <td></td><td></td><td>en</td><td>23 / 28</td></tr> </table>	<u>Mod.:</u>	<u>Issue date:</u>	<u>Lang.:</u>	<u>Page:</u>		
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## 3UF50 - Compatibility Mode

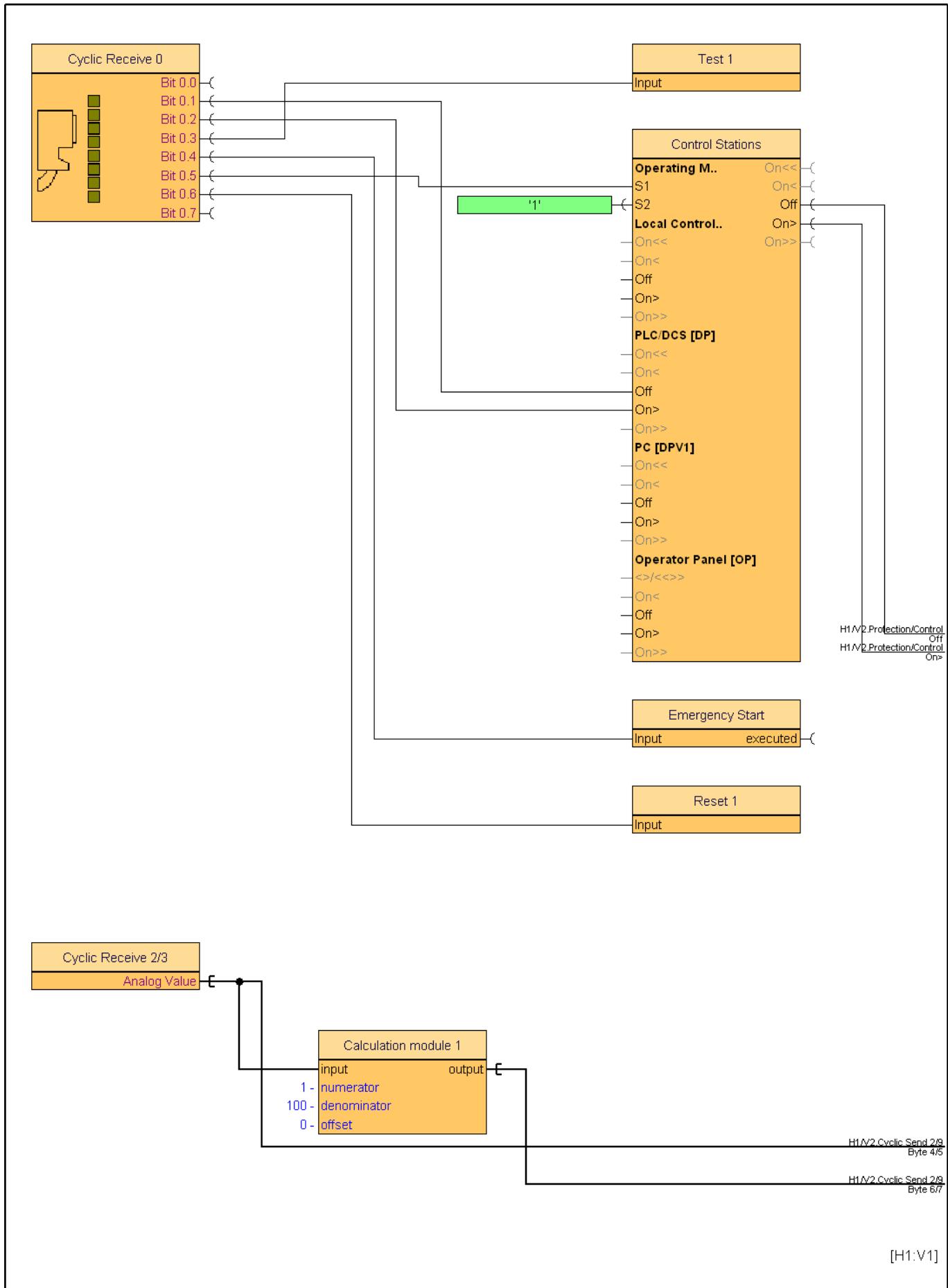
3UF50 - Compatibility Mode      0  
3UF50 - Operating Mode      DPV0  
3UF50 - Basic Type      1

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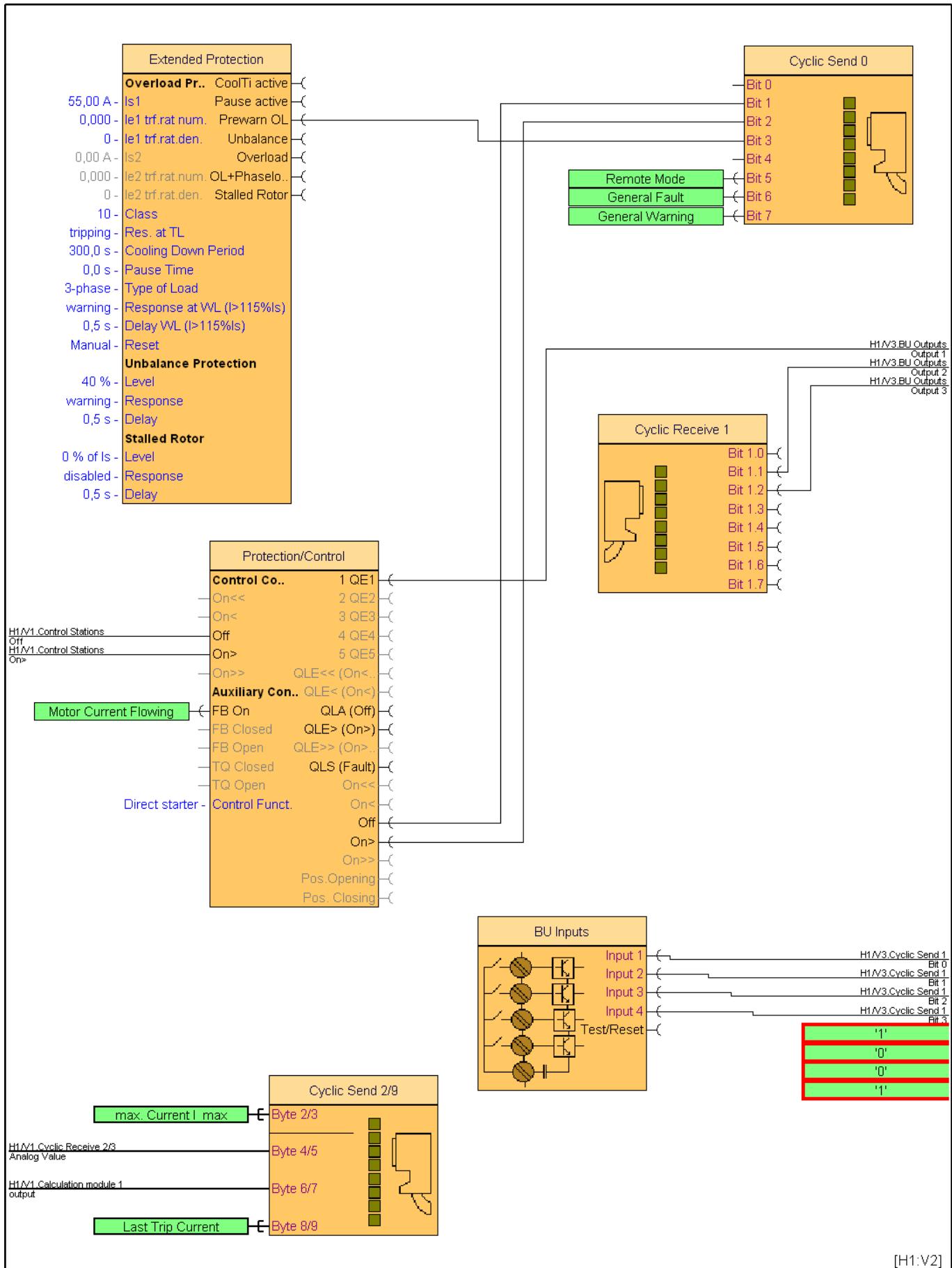
## Analog Value Recording

Trigger input	Not connected
Assigned analog value	Not connected
Trigger edge	positive
Sampling rate	0,1 s
Pre-trigger	0 %

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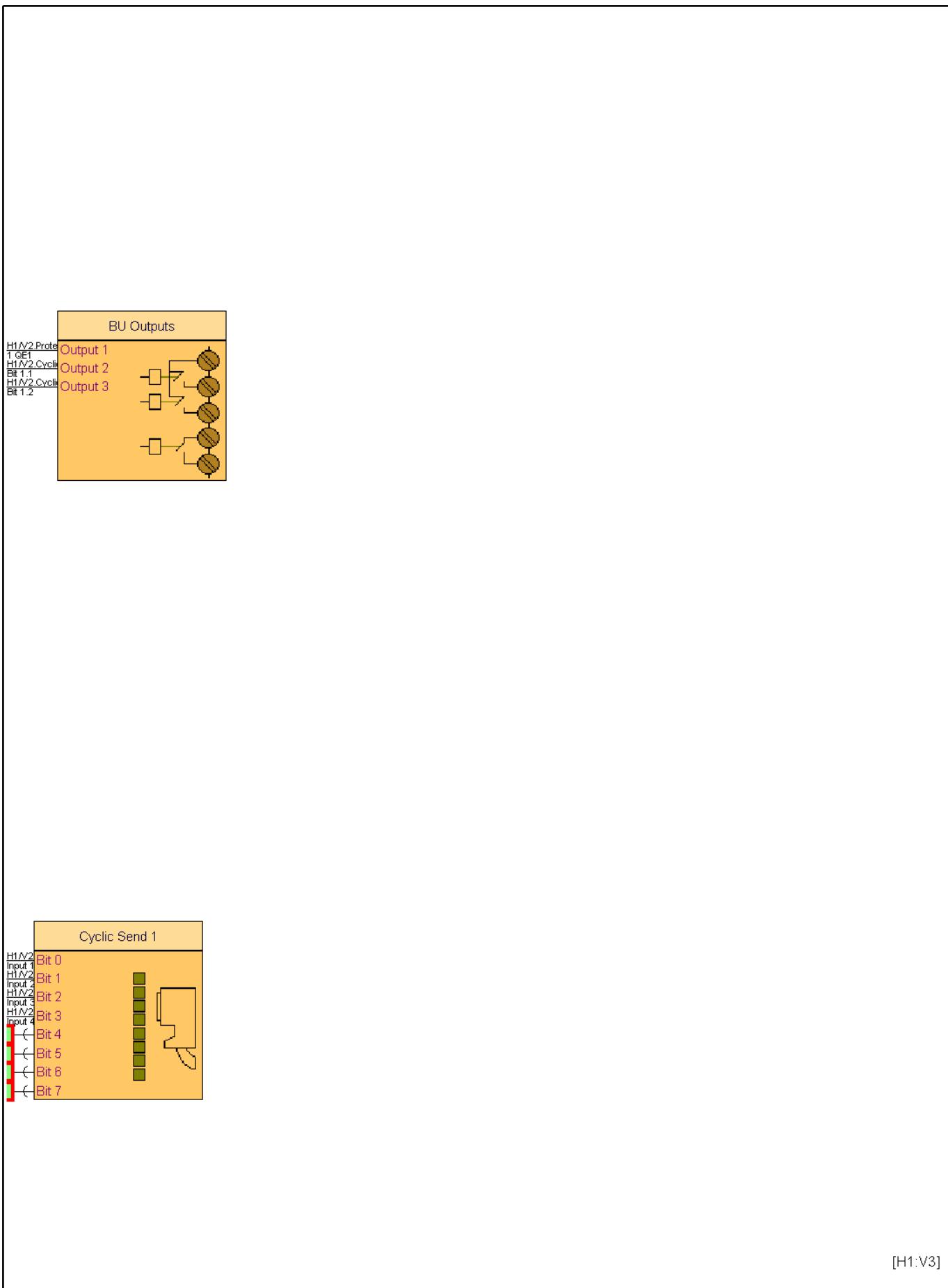


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