

## 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	FL404
Location designation	
Installation date	
Description	

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## Device Configuration

Basic Unit                      SIMOCODE pro V  
 Thermistor                      0

### Modules

Current Measurement              20 - 200A  
 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 31  
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	84,80 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                      Not connected  
On>                      Not connected  
On>>                      Not connected

### PLC/DCS [DP]

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

### PC [DPV1]

On<<                      Not connected  
On<                      Not connected  
Off                      Not connected  
On>                      Not connected  
On>>                      Not connected

### Operator Panel [OP]

◇/◇◇                      Not connected  
On<                      Not connected  
Off                      Not connected  
On>                      Not connected  
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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Off	Released Control Command - Off
On>	Released Control Command - On>
On>>	Not connected

## Auxiliary Control Inputs

Feedback On	Status - Motor Current Flowing
Feedback Closed (FC)	Not connected
Feedback Open (FO)	Not connected
Torque Closed (TC)	Not connected
Torque Open (TO)	Not connected

## Timings

Feedback Time	0,5 s
Execution Time	1,0 s
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 ( $I > 115\% I_s$ )
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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<b>Standard Functions</b>
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## Test/ Reset

Test/Reset - Button blocked	0
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## 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 Marking Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3

### 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 Marking Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3

### 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 Marking Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3

### 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 Marking Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3

### 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 Marking Test/Reset Button, RS232 (Panel Reset), Remote Reset, Reset 1,2,3

## 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
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## 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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## 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	0	1	1	1	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
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
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### Flashing 2

Flashing - Input	Not connected
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### 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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Limit	0
Delay	0,5 s
Marking	

## Calculation modules

### Calculation module 1

Calculation module 1 - input	Cyclic Receive - Analog Value
Calculation module 1 - numerator	1
Calculation module 1 - denominator	100
Calculation module 1 - offset	0

### Calculation module 2

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

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3UF50 - Compatibility Mode

3UF50 - Compatibility Mode0

3UF50 - Operating ModeDPV0

3UF50 - Basic Type1

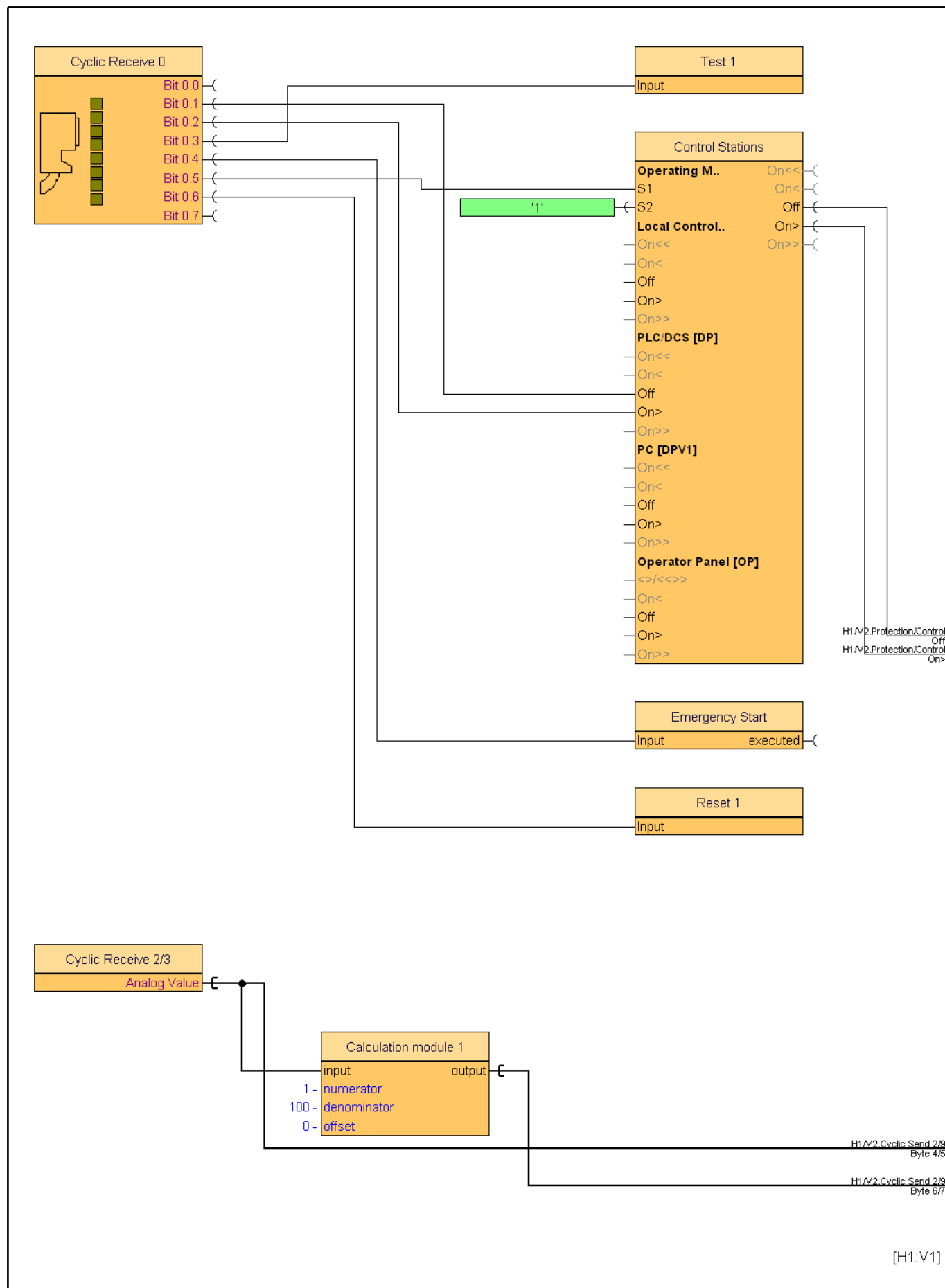
Dept. resp.:	Technical reference:	Document type:	Document status:			
Owner:	Created by:	Title:	Item no.:			
	Approved by:		Mod.:	Issue date:	Lang.:	Page:
					en	24 / 28



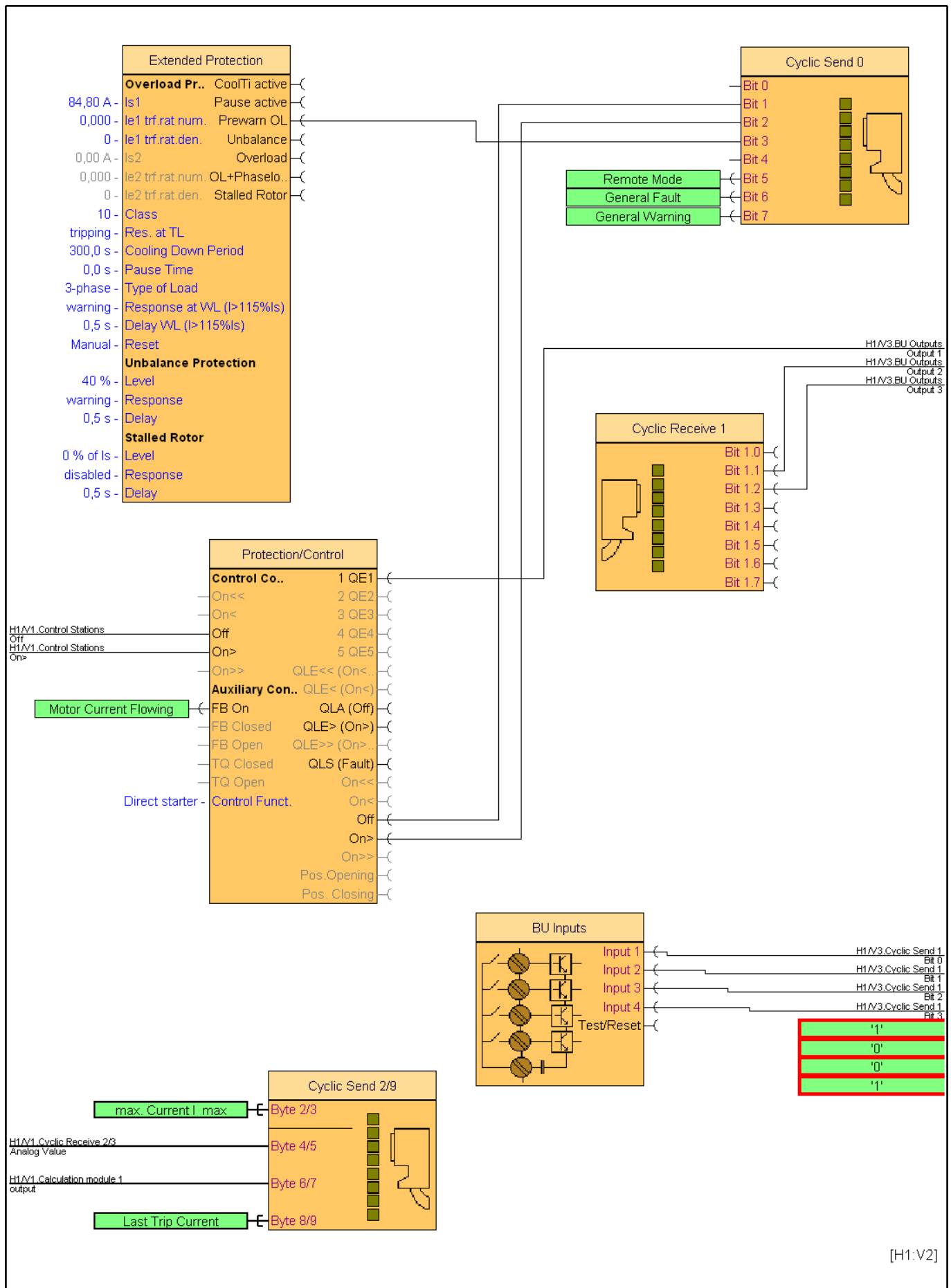
## Analog Value Recording

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

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	<u>Approved by:</u>		<u>Mod.:</u>	<u>Issue date:</u>	<u>Lang.:</u> en	<u>Page:</u> 25 / 28

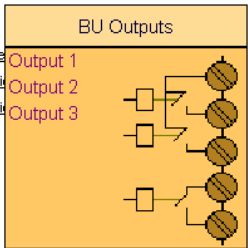


Dept. resp.:	Technical reference:	Document type:	Document status:
Owner:	Created by:	Title:	Item no.:
	Approved by:		Mod.:
			Issue date:
			Lang.:
			Page:
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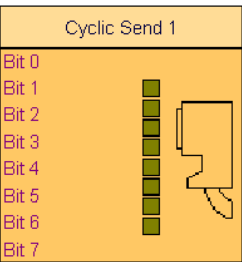
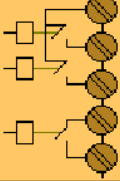
[H1:V2]

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Owner:	Created by:	Title:	Item no.:
	Approved by:		Mod.:
			Issue date:
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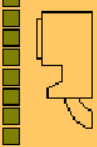
H1/V2 Prote  
1 GE1  
H1/V2 Cycli  
Bit 1.1  
H1/V2 Cycli  
Bit 1.2

Output 1  
Output 2  
Output 3



H1/V2  
input 1  
H1/V2  
input 2  
H1/V2  
input 3  
H1/V2  
input 4  
H1/V2  
input 4

Bit 0  
Bit 1  
Bit 2  
Bit 3  
Bit 4  
Bit 5  
Bit 6  
Bit 7



[H1:V3]

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	Approved by:		Mod.: Issue date: Lang.: Page: 28 / 28