

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 WPU104
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 **19**
Transmission rate **1.5 Mbps**

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 28,40 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 (F0)	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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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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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

<u>Dept. resp.:</u>	<u>Technical reference:</u>	<u>Document type:</u>	<u>Document status:</u>			
<u>Owner:</u>	<u>Created by:</u>	<u>Title:</u>	<u>Item no.:</u>			
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3UF50 - Compatibility Mode

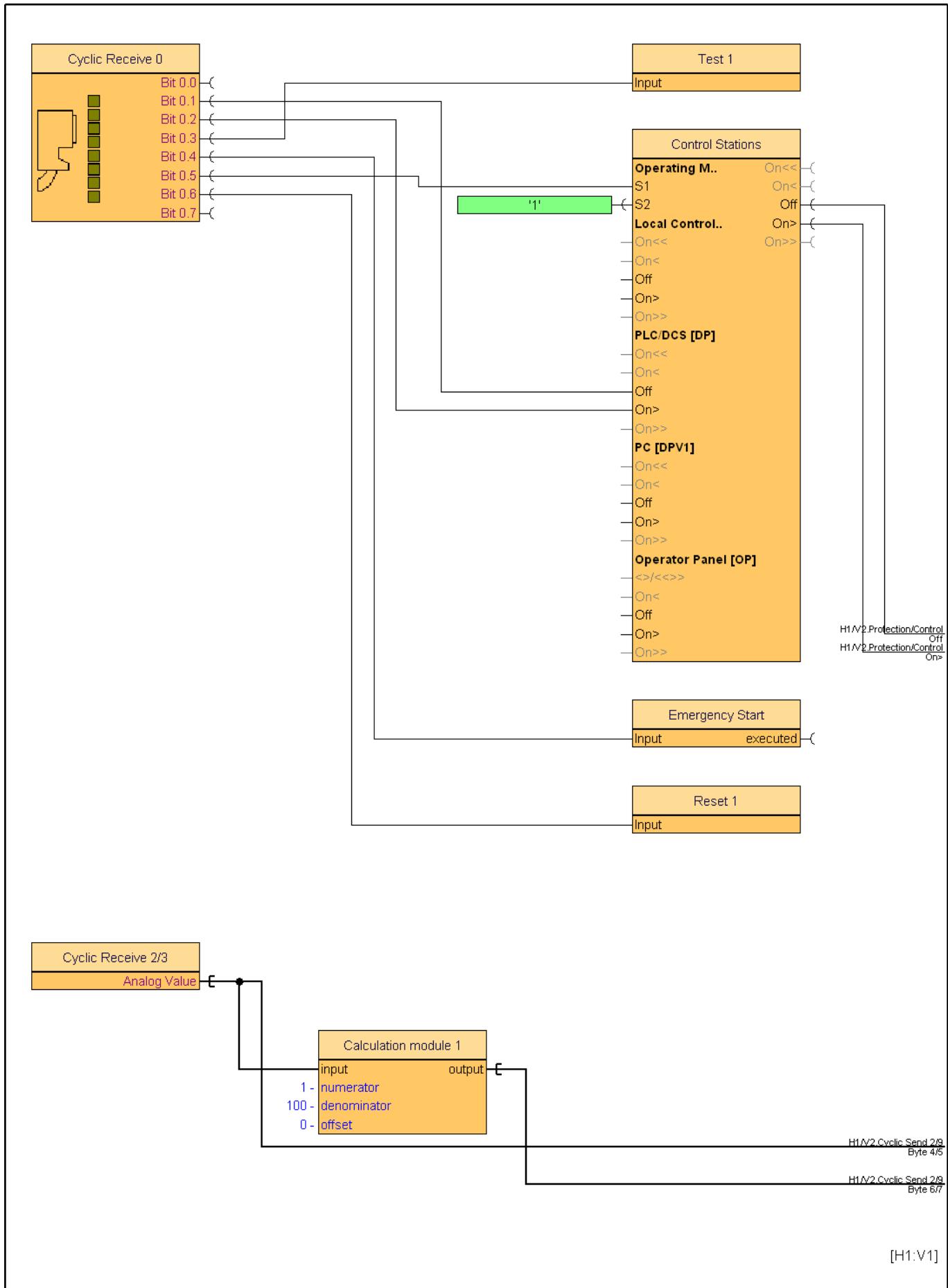
3UF50 - Compatibility Mode 0
3UF50 - Operating Mode DPV0
3UF50 - Basic Type 1

<u>Dept. resp.:</u>	<u>Technical reference:</u>	<u>Document type:</u>	<u>Document status:</u>		
<u>Owner:</u>	<u>Created by:</u>	<u>Title:</u>	<u>Item no.:</u>		
	<u>Approved by:</u>		<u>Mod.:</u>	<u>Issue date:</u>	<u>Lang.:</u> <u>en</u>
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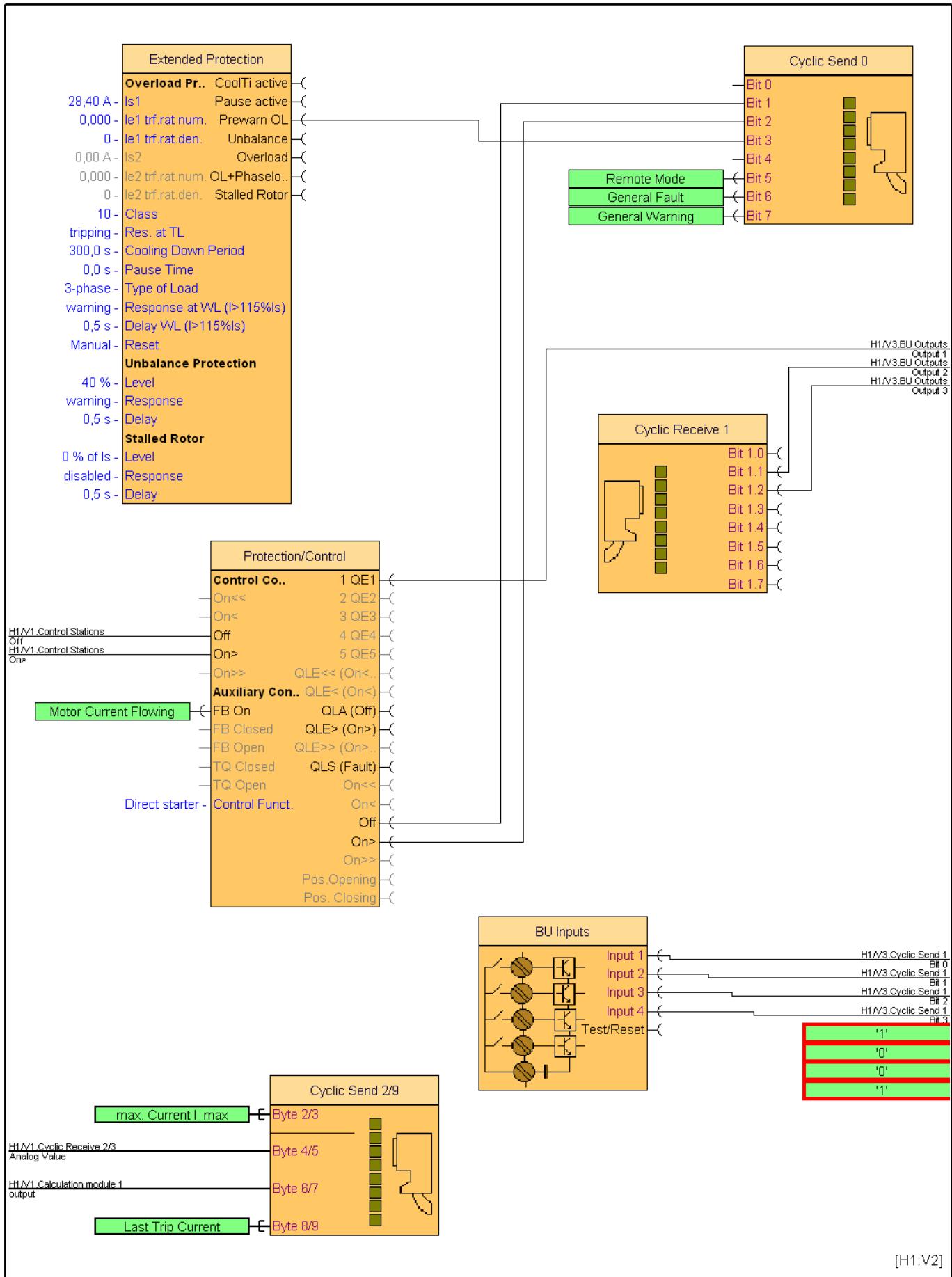
Analog Value Recording

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

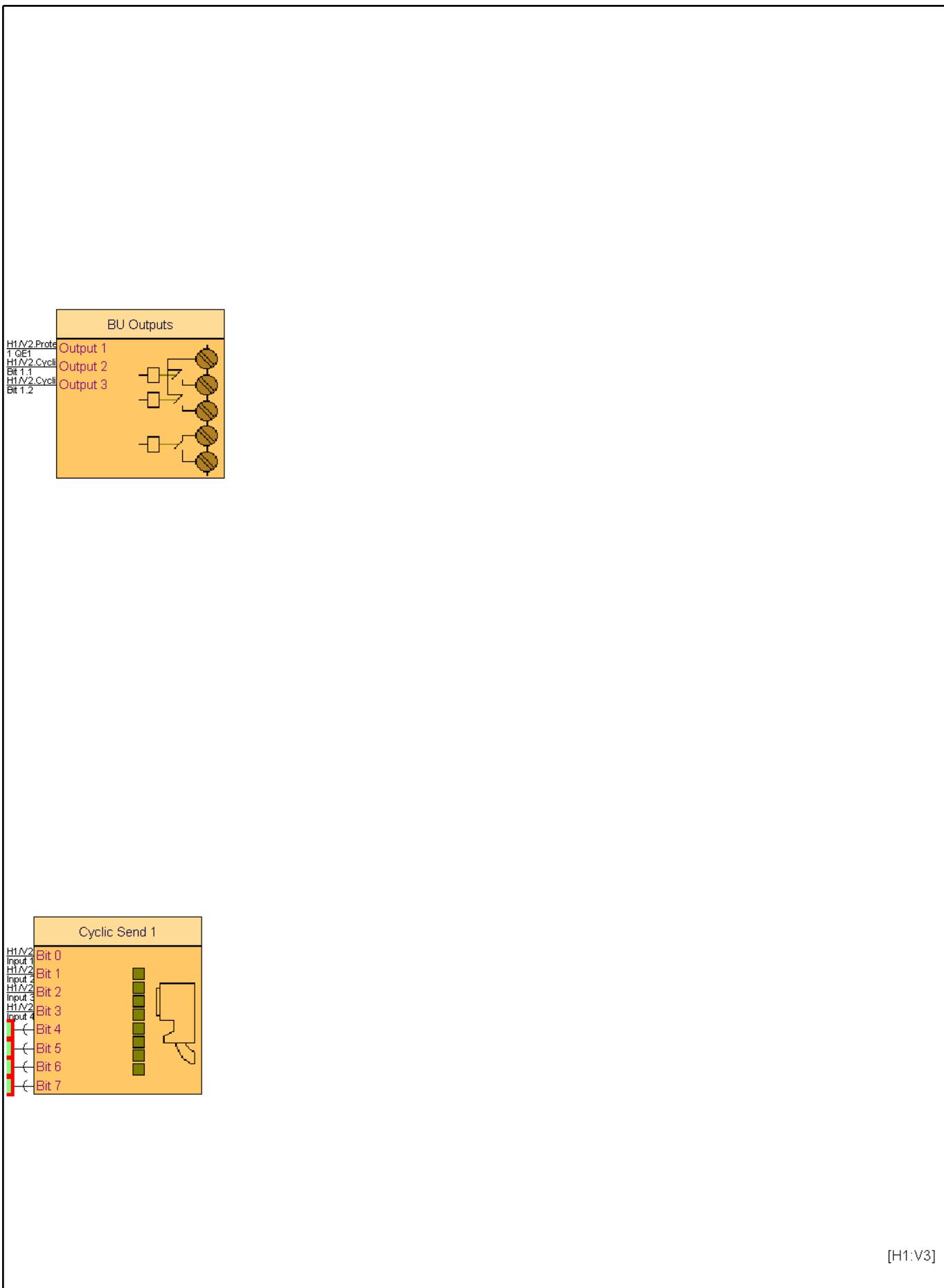
Dept. resp.:	Technical reference:	Document type:	Document status:			
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Owner:	Created by:	Title:	Item no.:
	Approved by:		Mod.: Issue date: Lang.: Page: en 27 / 28



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<u>Owner:</u>	<u>Created by:</u>	<u>Title:</u>	<u>Item no.:</u>			
	<u>Approved by:</u>		<u>Mod.:</u>	<u>Issue date:</u>	<u>Lang.:</u>	<u>Page:</u>
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