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	FL401
Location designation	
Installation date	
Description	

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

Bus Parameters

DP Address	28
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

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

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

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

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

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

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

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

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

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

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)

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)

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

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

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

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

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

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

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

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

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)

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

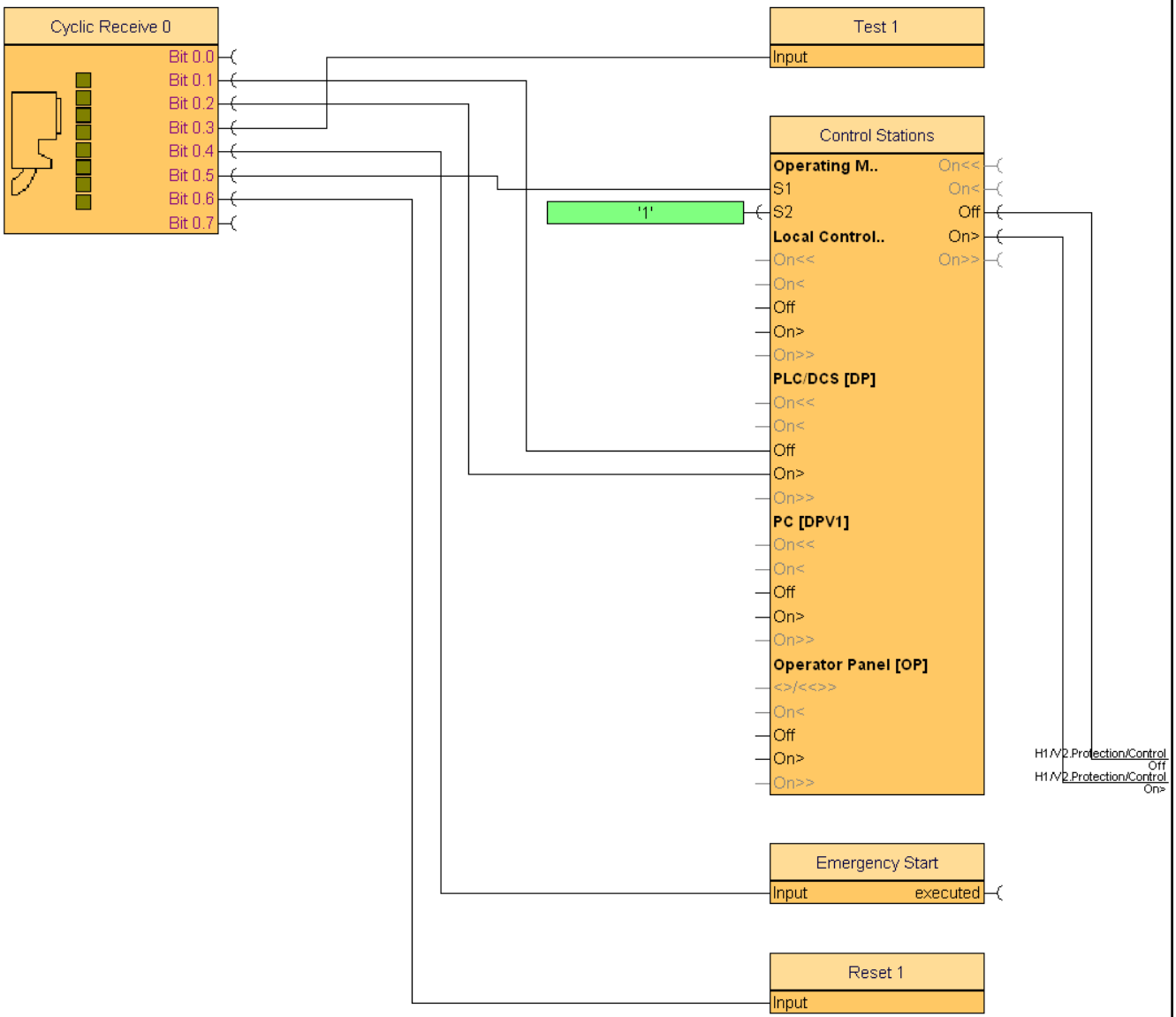
Calculation module 2 - operation mode	Both inputs of type word
Calculation module 2 - input 1	Not connected
Calculation module 2 - numerator 1	0
Calculation module 2 - denominator 1	0
Calculation module 2 - operator	+ (Addition)
Calculation module 2 - input 2	Not connected
Calculation module 2 - numerator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

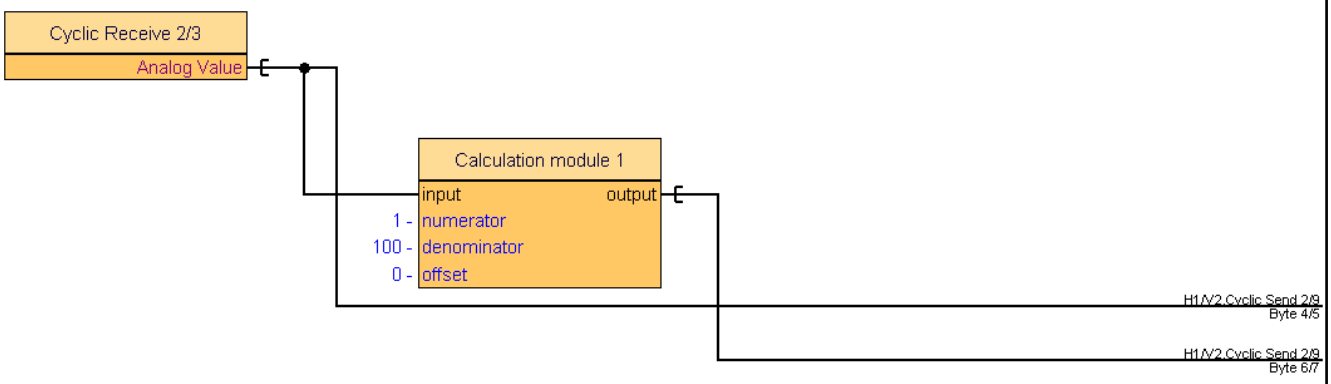
3UF50 - Compatibility Mode

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

Analog Value Recording

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





[H1:V1]

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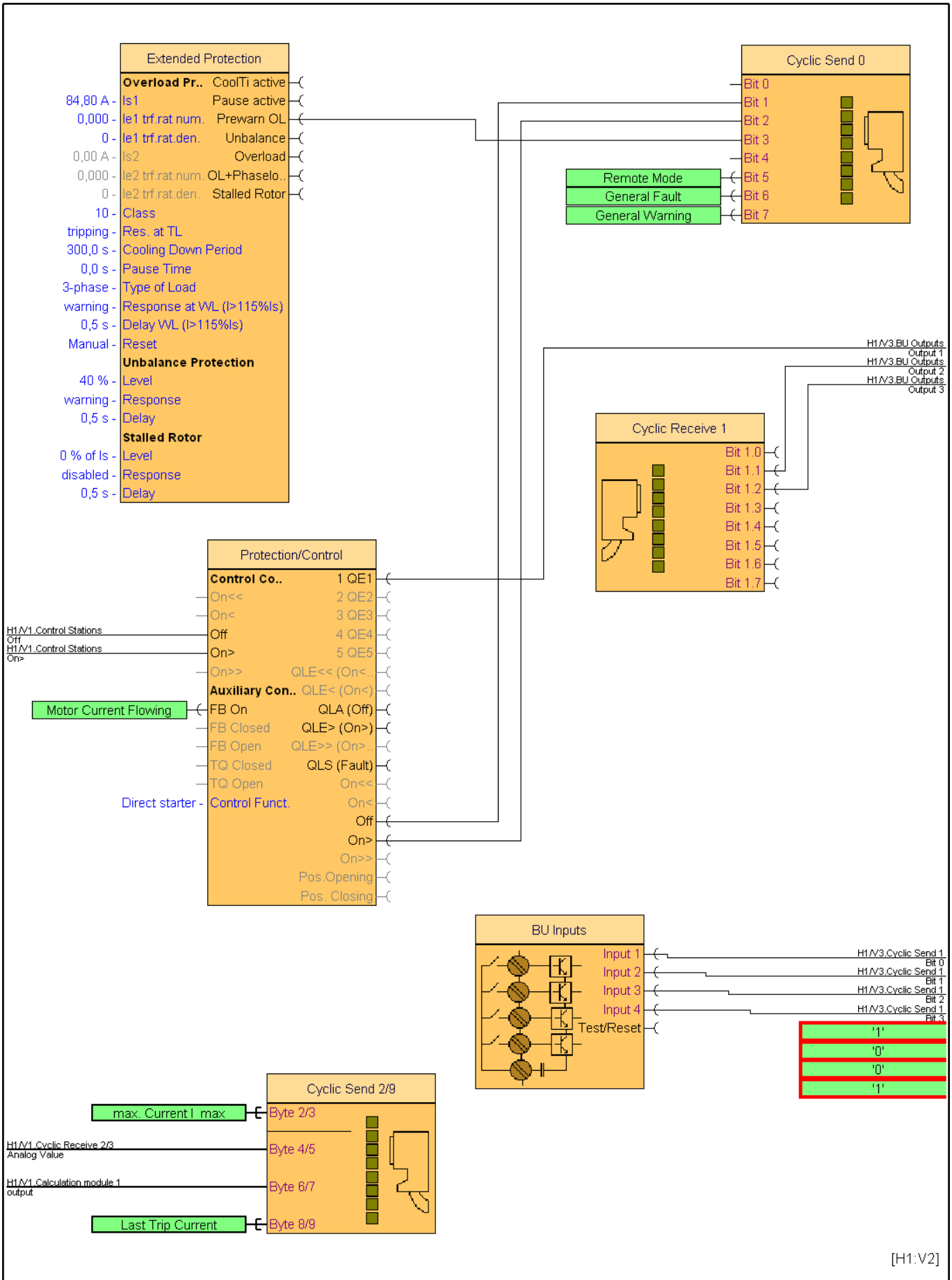
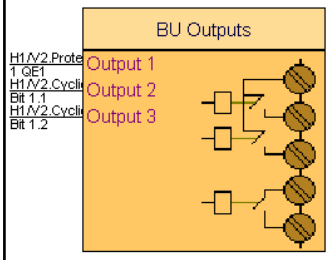
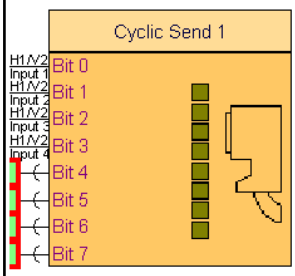

Extended Protection
Overload Pr..
CoolTi active
84,80 A - Is1
Pause active
0,000 - Ie1 trf.rat num.
Prewarn OL
0 - Ie1 trf.rat.den.
Unbalance
0,00 A - Is2
Overload
0,000 - Ie2 trf.rat.num.
OL+Phaselo..
0 - Ie2 trf.rat.den.
Stalled Rotor
10 - Class
tripping - Res. at TL
300,0 s - Cooling Down Period
0,0 s - Pause Time
3-phase - Type of Load
warning - Response at WL (I>115%Is)
0,5 s - Delay WL (I>115%Is)
Manual - Reset
Unbalance Protection
40 % - Level
warning - Response
0,5 s - Delay
Stalled Rotor
0 % of Is - Level
disabled - Response
0,5 s - Delay
Cyclic Send 0
Bit 0
Bit 1
Bit 2
Bit 3
Bit 4
Remote Mode
Bit 5
General Fault
Bit 6
General Warning
Bit 7
H1.V3.BU Outputs Output 1
H1.V3.BU Outputs Output 2
H1.V3.BU Outputs Output 3
Cyclic Receive 1
Bit 1.0
Bit 1.1
Bit 1.2
Bit 1.3
Bit 1.4
Bit 1.5
Bit 1.6
Bit 1.7
Protection/Control
Control Co..
1 QE1
On<<
2 QE2
On<
3 QE3
H1.V1.Control Stations Off
Off
4 QE4
H1.V1.Control Stations On>
On>
5 QE5
On>>
QLE<< (On<..
Auxiliary Con..
QLE< (On<)
Motor Current Flowing
FB On
QLA (Off)
FB Closed
QLE> (On>)
FB Open
QLE>> (On>..
TQ Closed
QLS (Fault)
TQ Open
On<<
Direct starter - Control Funct.
On<
Off
On>
On>>
Pos.Opening
Pos. Closing
BU Inputs
Input 1
Input 2
Input 3
Input 4
Test/Reset
H1.V3.Cyclic Send 1 Bit 0
H1.V3.Cyclic Send 1 Bit 1
H1.V3.Cyclic Send 1 Bit 2
H1.V3.Cyclic Send 1 Bit 3
'1'
'0'
'0'
'1'
Cyclic Send 2/9
max. Current I_max
Byte 2/3
H1.V1.Cyclic Receive 2/3 Analog Value
Byte 4/5
H1.V1.Calculation module 1 output
Byte 6/7
Last Trip Current
Byte 8/9
[H1:V2]


BU Outputs
H1.V2.Prote
1 QE1
H1.V2.Cyclic
Bit 1.1
H1.V2.Cyclic
Bit 1.2
Output 1
Output 2
Output 3


Cyclic Send 1
H1.V2
Input 1
H1.V2
Input 2
H1.V2
Input 3
H1.V2
Input 4
Bit 0
Bit 1
Bit 2
Bit 3
Bit 4
Bit 5
Bit 6
Bit 7

[H1:V3]