

**P R I N T - C O N T E N T S****A23 7UT512 V3.0**

Created by:

Date of creation: 03.07.17 15:45:37

Last modified: 22.09.17 12:50:33

Comment:

**Configuration, Control, Marshalling, Settings**

**ElPolaniec b11**  
**Syatem B**  
**A23 7UT512 V3.0**  
**7UT51255EB010CA0 V03.0x**

## Configuration, Control, Marshalling, Settings

---

### Configuration

#### 7100 LOCAL USER INTERFACE

|                                                     |                                            |
|-----------------------------------------------------|--------------------------------------------|
| 7101 Language                                       | English                                    |
| 7102 Date format                                    | DD.MM.YY (Europe)                          |
| 7105 Top Line of Display under Normal Conditions    | 0741 Winding 1 PhA current in primary amps |
| 7106 Bottom Line of Display under Normal Conditions | 0744 Winding 2 PhA current in primary amps |
| 7107 Top Line of Display after Fault                | 0543 Protection function(s) pick-up        |
| 7108 Bottom Line of Display after Fault             | 0544 Protective Trip                       |
| 7110 Update LEDs/display (with pickup or with trip) | With PickUp                                |

#### 7200 CONFIGURATION OF COMM PORTS

|                                              |                 |
|----------------------------------------------|-----------------|
| 7209 Device type                             | 35              |
| 7211 Front port                              | DIGSI V3        |
| 7215 Baud rate for the front port            | 19200 BAUD      |
| 7216 Parity and stop-bits for the front port | DIGSI V3        |
| 7221 Data format (protocol) for rear port    | DIGSI V3        |
| 7222 Measured value format for the rear port | VDEW-compatible |
| 7225 Baud rate of the rear port              | 19200 BAUD      |
| 7226 Parity and stop-bits for the rear port  | VDEW/DIGSI/LSA  |
| 7235 Programming via the rear port           | YES             |

#### 7400 WAVEFORM CAPTURE

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| 7402 Trigger for waveform capture                   | Trigger with PICKUP |
| 7410 Max length of a waveform capture record        | 1.00 s              |
| 7411 Amount of captured waveform prior to trigger   | 0.10 s              |
| 7412 Amount of captured waveform after trigger      | 0.10 s              |
| 7431 Discrete input initiated waveform capture time | 0.50 s              |
| 7432 Keyboard initiated waveform capture duration   | 0.50 s              |
| 7490 Length of fault log (for previous LSA)         | Fixed 660 Samples   |

#### 7800 DEVICE OPTIONS

|                                              |                    |
|----------------------------------------------|--------------------|
| 7801 Selection of the protected object       | Motor/Generator    |
| 7816 87-State of the differential protection | EXISTENT           |
| 7821 Backup overcurrent protection           | NONEXISTENT        |
| 7824 49-Thermal overload protection 1        | NONEXISTENT        |
| 7825 49-Thermal overload protection 2        | NONEXISTENT        |
| 7830 State of external trip function 1       | NONEXISTENT        |
| 7831 State of external trip function 2       | NONEXISTENT        |
| 7885 Select settings group                   | NONEXISTENT        |
| 7899 Rated Frequency                         | Line Freq of 50 Hz |
| Control                                      |                    |

#### 8200 RESETTING STORED DATA

Marshalling

#### 6100 CONFIGURATION OF DISCRETE INPUTS

|                                        |        |
|----------------------------------------|--------|
| 6101 Configuration of Discrete Input 1 |        |
| 001 0011 >User defined event 1         | act.HI |
| 6102 Configuration of Discrete Input 2 |        |

#### 6200 CONFIGURATION OF SIGNAL RELAYS

|                                            |  |
|--------------------------------------------|--|
| 6201 Configuration of signal Relay 1       |  |
| 001 5671 87 -Diff protection: General trip |  |
| 6202 Configuration of signal Relay 2       |  |
| 001 5671 87 -Diff protection: General trip |  |
| 6203 Configuration of signal Relay 3       |  |

6204 Configuration of signal Relay 4  
001 0011 >User defined event 1

**6300 CONFIGURATION OF LED INDICATORS**

6301 Configuration of LED 1  
001 5671 87 -Diff protection: General trip m  
6302 Configuration of LED 2  
001 0011 >User defined event 1 m  
6303 Configuration of LED 3  
6304 Configuration of LED 4  
6305 Configuration of LED 5  
6306 Configuration of LED 6

**6400 CONFIGURATION OF TRIP CONTACTS**

6401 Configuration of Trip Relay 1  
001 5671 87 -Diff protection: General trip  
002 0011 >User defined event 1  
6402 Configuration of Trip Relay 2  
001 5671 87 -Diff protection: General trip  
002 0011 >User defined event 1

**Settings Settings group A****1200 MOTOR OR GENERATOR DATA**

1202 Rated voltage of motor / generator 15.7 kV  
1203 Rated apparent power (VA) of motor / generator 235.3 MVA  
1206 Indication of polarity of the CT currents Same side  
1207 Rated primary current of side 1 CT 10000 A  
1208 Rated primary current of side 2 CT 10000 A

**1700 87-MOTOR/ GENERATOR DIFF PROTECTION DATA**

1701 87-State of differential protection ON  
1703 87-Pick-up value of diff protection 0.25 I/In of Motor or Gen  
1706 87-Slope 1 of operating characteristic 0.15  
1707 87-Base point for slope 2 of oper charact. 2.5 I/In of Motor or Gen  
1708 87-Slope 2 of operating characteristic 0.25  
1717 87-Max. blocking time at CT saturation 8 \*1 Cycle  
1718 87-Min. restr. current for block at CT satur. 7.00 I/In of Motor or Gen  
1725 87-Oper time delay of differential protection 0.00 s  
1727 87-Reset delay after trip has been initiated 1.00 s

**2900 MEASURED VALUE SUPERVISION**

2903 Symmetry threshold for current monitoring 0.50 I/In  
2904 Symmetry factor for current monitoring 0.50