

# 7SG26 Tau 500

Auto Reclose and Check Synchronisation

## Document Release History

This document is issue 2010/02. The list of revisions up to and including this issue is:

Pre release

2010/02	Document reformat due to rebrand

## Software Revision History

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**1. SYSTEM CONFIG MENU**

SETTING	RANGE	DEFAULT
Active Settings Group	G1-G4	G1
Settings Group Edit/View	G1-G4	G1
Calendar - Set Date	DD/MM/YY	01/01/99
Clock - Set Time	HH:MM:SS	00:00:00
Sett Grp Select	G1-G4	1
Change Password	4 alphanumeric characters	NONE
Set Identifier	Up to 16 alphanumeric characters	TAU

**2. DAR MENU**

SETTING	RANGE	DEFAULT
A/R In Service	IN/OUT	OUT
Dead Bar Charge	Enabled/Disabled	Disabled
Dead Line Charge	Enabled/Disabled	Disabled
Dead Line & Dead Bar Close	Enabled/Disabled	Disabled
Check Sync Close	Enabled/Disabled	Enabled
Unconditional Close	Enabled/Disabled	Disabled
Manual Close DBC	Enabled/Disabled	Disabled
Manual Close DLC	Enabled/Disabled	Disabled
Manual Close DLDB	Enabled/Disabled	Disabled
Manual Close CS	Enabled/Disabled	Enabled
Number Of Shots	1-4	1
First Deadtime	0.1-900s step 0.1s	5.0s
Second Deadtime	0.1-900s step 0.1s	5.0s
Third Deadtime	0.1-900s step 0.1s	5.0s
Fourth Deadtime	0.1-900s step 0.1s	5.0s
Live Line Check	Enabled/Disabled	Enabled
CS During Dead	Enabled/Disabled	Enabled
VT Fail Lockout	Enabled/Disabled	Disabled
CB Close Pulse	0.2-20s step 0.1s	2.0s
Reclaim Time	OFF - 1-600s step 1s	5s
Dead Line Charge Delay	0 – 60s step 1s	0s
Dead Bar Charge Delay	0 – 60s step 1s	0s
Reclose Blocked Delay	0-600s step 1s	60s
Sync Close Delay	OFF-900s step 1s	30s
Sequence Fail Timer	OFF-1-200s step 1s	OFF
Persistent Intertrip	1-180s step 1s	60s
CB Fail To Open Delay	50-2000ms step 10ms	100ms
Autosolation Action(+)(*)	Enabled/Disabled	Disabled
Autosolation Timer(+)(*)	OFF-1-200s step 1s	OFF
Minimum LO Timer	0-60s step 1s	2s
Reset LO By Timer	Enabled/Disabled	Disabled
Total CB Close Counter	1-999 step1	100
Delta CB Close Counter	1-999 step1	20
Reset Total CB Count	YES/NO	NO

SETTING	RANGE	DEFAULT
Reset Delta CB Count	YES/NO	NO

### 3. POLE DISCREPANCY MENU

SETTING	RANGE	DEFAULT
Pole Discrepancy Time	OFF-0.1-20.0s step 0.1s	1.6s

### 4. SYNC MENU

SETTING	RANGE	DEFAULT
Nominal Volts	63.5/110V	63.5V
Gn Bus Dead : Live	5-150% step1% 10-155% step 1%	20% 90%
Gn Line Dead : Live	5-150% step1% 10-155% step 1%	20% 90%
Gn Bus U/V Detector	OFF, 5-150% step 1%	90%
Gn Line U/V Detector	OFF, 5-150% step 1%	90%
Gn Voltage Differential	OFF-1-100% step 1%	10%
Gn Split Angle	OFF-95°-175° step1°	175°
Gn MC Split Action	Close On Zero/Check Sync/System Sync	Close On Zero
Gn A/R Split Action	Lockout/System Sync/Close On Zero	Lockout
Gn Check Sync Angle	5° - 90° step 1°	20°
Gn Check Sync Slip	OFF, 0.020 - 2.000Hz step 0.005Hz	0.050Hz
Gn Check Sync Timer	OFF, 0.1 - 100sec step 0.1sec	OFF
Gn System Sync Angle	5° - 90° step 1°	10°
Gn SS and COZ Slip Frequency	OFF, 0.010 - 2.000Hz step 0.005Hz	0.125Hz
Gn System Sync Timer	OFF, 0 – 100sec step 0.1sec	OFF
Gn CB Close Time	5-200ms step 5ms	60ms

### 5. STATUS CONFIG MENU

SETTING	RANGE	DEFAULT
Manual Close	S1..S11	1
Block Reclose	S1..S11	5
A/R Out	S1..S11	4
A/R In	S1..S11	3
Trip	S1..S11	11
Starter	S1..S11	None
Reclose Lockout	S1..S11	2
Trip And Reclose	S1..S11	None
External A/R Start	S1..S11	None
Reset Lockout	S1..S11	10
Sync Override	S1..S11	None
Manual Sync Override	S1..S11	None
Start System Sync	S1..S11	None
Intertrip Receive	S1..S11	None
Autosolation Complete(+)(*)	S1..S11	None

SETTING	RANGE	DEFAULT
CB Phase A Closed	S1..S11	9
CB Phase B Closed	S1..S11	9
CB Phase C Closed	S1..S11	9
CB Phase A Open	S1..S11	8
CB Phase B Open	S1..S11	8
CB Phase C Open	S1..S11	8
Input1	S1..S11	None
Input2	S1..S11	None
Input3	S1..S11	None
Input4	S1..S11	None
Input5	S1..S11	None
Input6	S1..S11	None
Input7	S1..S11	None
Input8	S1..S11	None
Input9	S1..S11	None
Input10	S1..S11	None
Input11	S1..S11	None
Input12	S1..S11	None
Input13	S1..S11	None
Input14	S1..S11	None
Input15	S1..S11	None
Input16	S1..S11	None
Switch Groups	S1..S11	None
Trigger Storage	S1..S11	None
Reset Total CB Close	S1..S11	None
Reset Delta CB Close	S1..S11	None
Inverted Inputs	S1..S11	None

## 6. REYLOGIC CONTROL MENU

SETTING	RANGE	DEFAULT
General Logic	Enable/Disable	Enable

## 7. REYLOGIC ELEMENTS MENU

SETTING	RANGE	DEFAULT
Input1Timer PU	0-60000ms step 1ms	0
Input1Timer DO	0-60000ms step 1ms	0
Input2Timer PU	0-60000ms step 1ms	0
Input2Timer DO	0-60000ms step 1ms	0
Input3Timer PU	0-60000ms step 1ms	0
Input3Timer DO	0-60000ms step 1ms	0
Input4Timer PU	0-60000ms step 1ms	0
Input4Timer DO	0-60000ms step 1ms	0
Input5Timer PU	0-60000ms step 1ms	0
Input5Timer DO	0-60000ms step 1ms	0
Input6Timer PU	0-60000ms step 1ms	0

SETTING	RANGE	DEFAULT
Input6Timer DO	0-60000ms step 1ms	0
Input7Timer PU	0-60000ms step 1ms	0
Input7Timer DO	0-60000ms step 1ms	0
Input8Timer PU	0-60000ms step 1ms	0
Input8Timer DO	0-60000ms step 1ms	0

## 8. OUTPUT RELAY MENU

SETTING	RANGE	DEFAULT
Close Pulse	RL1..RL13	4
Lockout	RL1..RL13	5
A/R Out Of Service	RL1..RL13	None
A/R In Service	RL1..RL13	2
A/R In Progress	RL1..RL13	6
Manual Close	RL1..RL13	None
Line Check	RL1..RL13	None
Live Line	RL1..RL13	None
Live Bus	RL1..RL13	None
In Sync	RL1..RL13	None
CB Open	RL1..RL13	None
CB Closed	RL1..RL13	None
CB Failed To Close	RL1..RL13	8
System Split	RL1..RL13	None
Manual Close Fail	RL1..RL13	None
Successful Close	RL1..RL13	7
CB Failed To Open	RL1..RL13	None
Block Reclose Alarm	RL1..RL13	None
Check Sync Start	RL1..RL13	12
Sync In Prog Flag	RL1..RL13	None
Dead Line Close Flag	RL1..RL13	None
Dead Bus Close Flag	RL1..RL13	None
Close Onto Fault	RL1..RL13	None
Delta CB Count Alarm	RL1..RL13	9
Total CB Count Alarm	RL1..RL13	9
VT Failure	RL1..RL13	10
Bus VT Failure	RL1..RL13	None
Line VT Failure	RL1..RL13	None
CB Pole Discrepancy	RL1..RL13	13
CB Not In Ser Alarm	RL1..RL13	None
CB Memory	RL1..RL13	None
A/R Not Allowed	RL1..RL13	None
Inhibit SeqIsolation	RL1..RL13	None
Persistent Intertrip	RL1..RL13	None
Autolsol Fail (+)(*)	RL1..RL13	None
Autolsol Completed (+)(*)	RL1..RL13	None
Autolsol Initiate (+)(*)	RL1..RL13	None
Input1Operated	RL1..RL13	None

SETTING	RANGE	DEFAULT
Input2Operated	RL1..RL13	None
Input3Operated	RL1..RL13	None
Input4Operated	RL1..RL13	None
Input5Operated	RL1..RL13	None
Input6Operated	RL1..RL13	None
Input7Operated	RL1..RL13	None
Input8Operated	RL1..RL13	None
Input9Operated	RL1..RL13	None
Input10Operated	RL1..RL13	None
Input11Operated	RL1..RL13	None
Input12Operated	RL1..RL13	None
Input13Operated	RL1..RL13	None
Input14Operated	RL1..RL13	None
Input15Operated	RL1..RL13	None
Input16Operated	RL1..RL13	None
ExtGroupSwitched	RL1..RL13	None
New Data Stored	RL1..RL13	None
Inhibit Seq Isol OP	RL1..RL13	None
Hand Reset Outputs	RL1..RL13	None
Protection Healthy	RL1..RL13	1

## 9. LED MENU

SETTING	RANGE	DEFAULT
Close Pulse	L1..L16	4
Lockout	L1..L16	3
A/R Out Of Service	L1..L16	1
A/R In Service	L1..L16	None
A/R In Progress	L1..L16	2
Manual Close	L1..L16	2
Line Check	L1..L16	None
Live Line	L1..L16	None
Live Bus	L1..L16	None
In Sync	L1..L16	None
CB Open	L1..L16	5
CB Closed	L1..L16	6
CB Failed To Close	L1..L16	8
System Split	L1..L16	12
Manual Close Fail	L1..L16	8
Successful Close	L1..L16	13
CB Failed To Open	L1..L16	7
Block Reclose Alarm	L1..L16	14
Check Sync Start	L1..L16	None
Sync In Prog Flag	L1..L16	None
Dead Line Close Flag	L1..L16	None
Dead Bus Close Flag	L1..L16	None
Close Onto Fault	L1..L16	None

SETTING	RANGE	DEFAULT
Delta CB Count Alarm	L1..L16	16
Total CB Count Alarm	L1..L16	16
VT Failure	L1..L16	None
Bus VT Failure	L1..L16	None
Line VT Failure	L1..L16	None
CB Pole Discrepancy	L1..L16	12
CB Not In Ser Alarm	L1..L16	9
CB Memory	L1..L16	10
A/R Not Allowed	L1..L16	15
Inhibit SeqIsolation	L1..L16	None
Persistent Intertrip	L1..L16	11
Autolsol Fail (+)(*)	L1..L16	None
Autolsol Completed (+)(*)	L1..L16	None
Autolsol Initiate (+)(*)	L1..L16	None
Input1Operated	L1..L16	None
Input2Operated	L1..L16	None
Input3Operated	L1..L16	None
Input4Operated	L1..L16	None
Input5Operated	L1..L16	None
Input6Operated	L1..L16	None
Input7Operated	L1..L16	None
Input8Operated	L1..L16	None
Input9Operated	L1..L16	None
Input10Operated	L1..L16	None
Input11Operated	L1..L16	None
Input12Operated	L1..L16	None
Input13Operated	L1..L16	None
Input14Operated	L1..L16	None
Input15Operated	L1..L16	None
Input16Operated	L1..L16	None
ExtGroupSwitched	L1..L16	None
New Data Stored	L1..L16	None
Inhibit Seq Isol OP	L1..L16	None
Self Reset LEDs	L1..L16	1-16
Protection Healthy	L1..L16	Green

#### 10. 1DATA STORAGE MENU

SETTING	RANGE	DEFAULT
Waveform Pre-trigger	OFF, 10%-100% step 10%	50%

#### 11. COMMS INTERFACE MENU

SETTING	RANGE	DEFAULT
Relay Address	0 - 254	0
IEC870 on port	COM1/COM2	COM1



<b>SETTING</b>	<b>RANGE</b>	<b>DEFAULT</b>
COM1 Baud Rate	75, 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200	19200
COM1 Parity	NONE, EVEN	EVEN
COM1 Line Idle	LIGHT ON, LIGHT OFF	LIGHT OFF
COM1 Data Echo	OFF / ON	OFF
COM2 Baud Rate	75, 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200	19200
COM2 Parity	NONE, EVEN	NONE
COM2 Line Idle	LIGHT ON, LIGHT OFF	LIGHT OFF
COM2 Data Echo	OFF / ON	OFF
COM2 Direction	AUTO-DETECT/FRONT PORT/REAR PORT	AUTO-DETECT