# 4. QUICK START 4.1. Quick Start ATyS p Frame B3 to B5 (125 A to 630 A)

STEP 1

Installation and Commissioning

# zsocomec

## QUICK START 🖾 125A - 630A

Motorised Source Changeover Switch Automatic Transfer Switching Equipment

#### Preliminary operations

Check the following upon delivery and after removal of the packaging

- Packaging and contents are in good condition.
- . The product reference corresponds to the order.
- · Contents should include:
- Qty 1 x ATyS p
- Qty 1 x Emergency handle and fixing clip Quick Start instruction sheet

### Warning

A Risk of electrocution, burns or injury to persons and / or damage to equipment.

This Quick Start is intended for personnel trained in the installation and commissioning of this product. For further details refer to the product instruction manual available on the SOCOMEC website.

- This product must always be installed and commissioned by qualified and approved personnel.
  Maintenance and servicing operations should be performed by trained and authorised personnel.
- · Do not handle any control or power cables connected to the product when voltage may be, or may become present on the product, directly through the mains or indirectly through external circuits.
- · Always use an appropriate voltage detection device to
- Ensure that no metal objects are allowed to fall in the cabinet (risk of electrical arcing).

Failure to observe good enginering practises as well as to follow these safety instructions may expose the user and others to serious injury or death.

Risk of damaging the device

In case the product is dropped or damaged in any way it is recommended to replace the complete product.

### Accessories

- · Bridging bars and connection kits.
- Control voltage transformer (400Vac -> 230Vac).
  DC power supply (12/24Vdc -> 230Vac).
- . Mounting spacers to raise the product x 10mm.
- · Phase barriers.
- Terminal shrouds / Terminal screens.
  Auxiliary contacts (Additional).
- · Padlocking in 3 positions (I 0 II) · Lockout accessories (RONIS - EL 11 AP).
- Door escutcheon frame. ATvS D20 Interface (remote control / display unit).
- RJ45 cable for ATyS D20 => ATyS p.
- · Voltage sensing kit.
- Current transformers.
- Plug-in optional modules: RS485 MODBUS communication, 2 inputs/2 outputs, Ethernet communication, Ethernet communication + RS485 JBUS/MODBUS gateway, Analogue outputs, Pulse outputs.

For further details refer to the product instruction manual under chapter "Spares and Accessories"



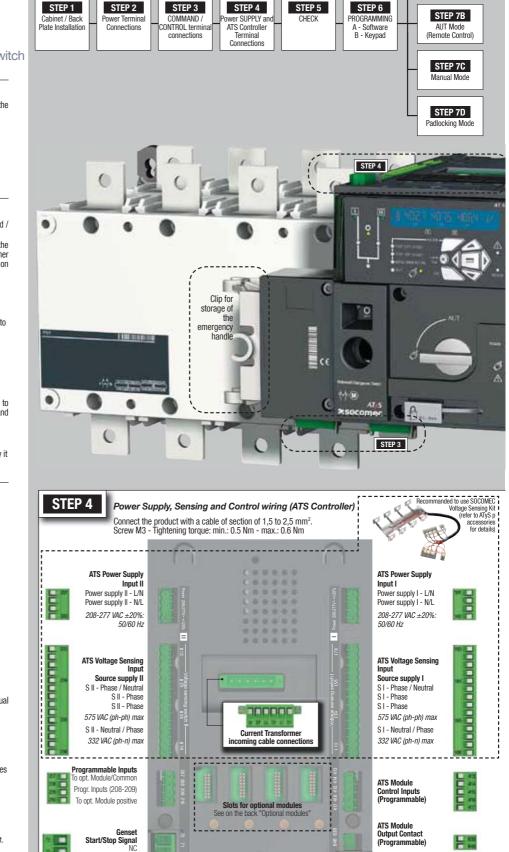
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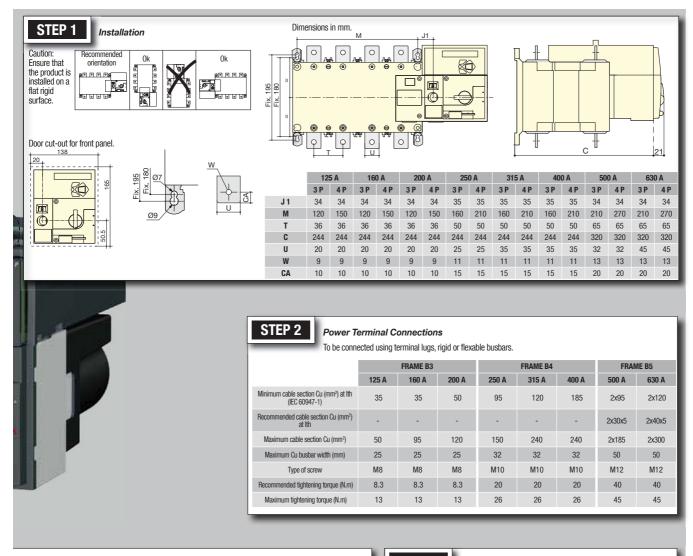
(Programmable)

Remote interface

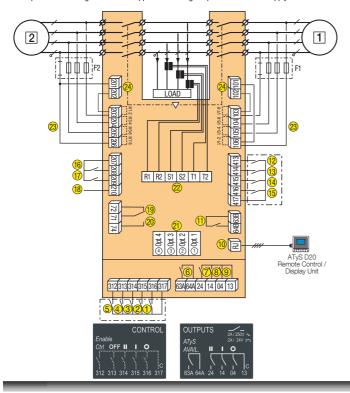
RJ45 - to ATyS D20

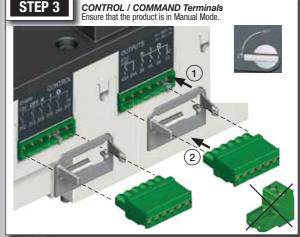
STEP 7A AUT Mode (Automatic Control)

12 EN



#### Example: Control wiring for a 400VAC application having a 3 phase and neutral supply.





- Deferred source alternate source 12-15. Programmable Inputs 1-4 1. Position 0 order 12-15. Programmable Inputs 5-6
- Position 0 order 1 2 Position 1 order
- 3. Position 2 order
- Zero position priority order 4.
- 5 Remote Control Enable (Priority over Auto)
- 6. Product Available output (Motor)
- Position II aux contact
- 8 Position I aux contact
- 9. Position 0 aux contact 10. O/P to ATyS D20 remote unit
- 11. Programmable Output Contact.
  - By default set to ATS Product Available Normally Open

- Aux. Supply (207/210) to be used with ATyS optional I/O modules
   Contact "Start/Stop Genset" : if S1 is not available the NC contact le contact (71-72) is close
   Contact "Ctard (Ctar Concert" : if S1
- 20. Contact "Start/Stop Genset" : if S1 is not available the NO contact le contact (71-74) is open
- 21. Option Module Slots 1 to 4
- 22. Current Transformer incoming cable connections 23. Voltage Sensing Inputs
- 24. Power Supply Inputs

# 4.1. Quick Start ATyS p Frame B3 to B5 (125 A to 630 A) continued



STEP 6

Config software.

available.

1 SETUP

4NBL

AUTO

400 V

50 Hz

M-G

NO (1)

NO (3

1 (2

NO

100

5

NO

INT

1000

0000

SAVE

3 phase / 4 wire

4NBL

4BL

NO (7)

NETWORK

AUTOCONF

NEUTRAL

ROT PH

NOM, VOLT

NOM. FREQ

PRIO TON

PRIO EON

PRIO NET

RETRANS

CT PRI

CT SEC

S1=SW2

BACKLGHT

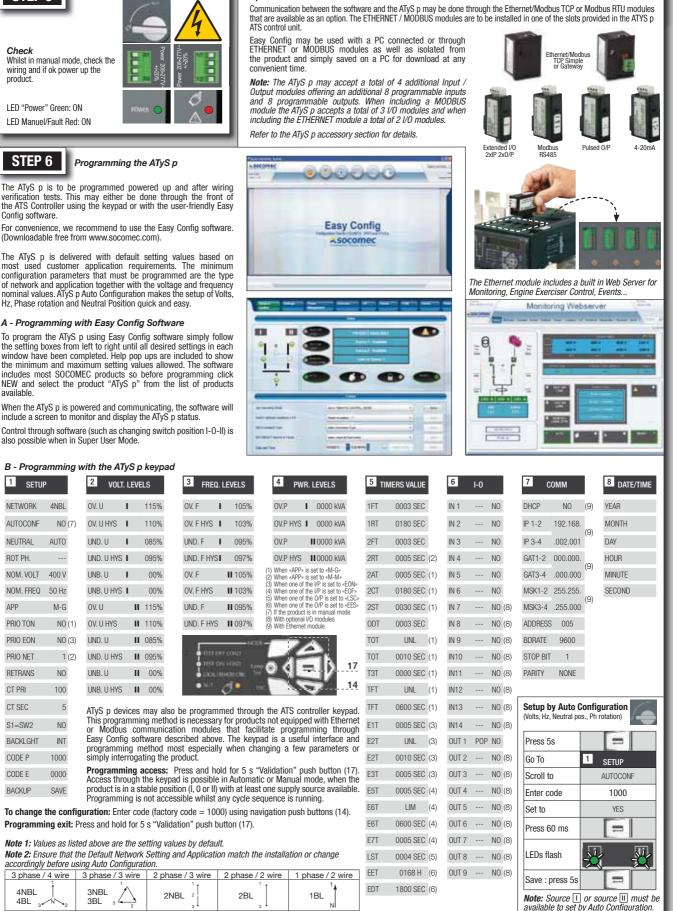
CODE P

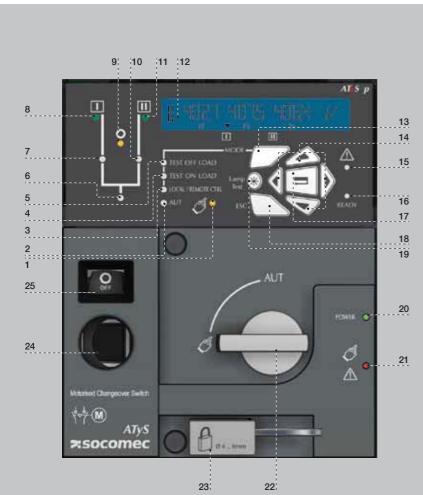
CODE E

BACKUP

APP

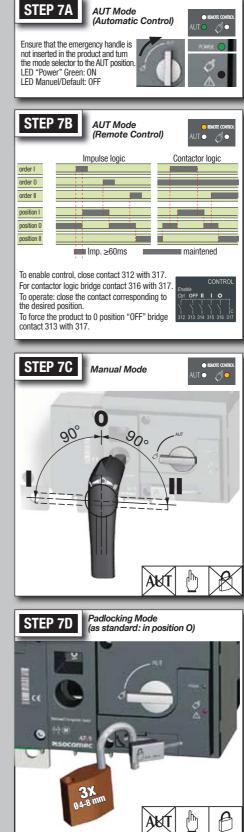
#### **Optional Modules**





- 1. MANUAL Mode LED indication. (Yellow steady light when in Manual Mode).
- 2. AUTO Mode LED indication Green steady light when in Auto mode with no timers running. Green flashing light when in Auto with timers
- Green flashing light when in Auto with timer running. 3. LOCAL / REMOTE CONTROL Mode LED
- indication. Yellow steady light when in Local / Remote
- control mode. Remote control mode is achieved with the Auto/Manu selector switched to Auto and terminals 312 closed with terminal 317. Remote control orders are received through closing 314 to 316 with 317. REMOTE Control is also achievable through Easy Config ATyS p software when connected to the product through Ethernet or MODBUS. (Optional modules). Local Control selectable and operable through the ATyS o keypad.
- 4. TEST ON LOAD CONTROL Mode LED indication. (Yellow steady light when in TON/ EON mode)
- 5. TEST OFF LOAD CONTROL Mode LED indication. (Yellow steady light when in TOF/ EOF mode).
- 6. Load Supply On LED. (Green when the load is supplied).
- 7. Switch 1 LED position indication. (Green when in position 1).
- Source supply I availability LED indication. (Green when supply I voltage is within the set limits).
- 9. Zero position LED indication. (Yellow when in position 0).
- 10. Switch 2 LED position indication. (Green when in position 2).

- 11. Source supply II availability LED indication. (Green when supply II voltage is within the set limits).
- 12. LCD Display Screen : (Status, measurement, timers, counters, events, faults, programming ....)
- MODE key to shift between operation modes.
   Novigation Keys to brough the
- 14. Navigation Keys to browse through the ATyS p menus without software.
- 15. FAULT LED indication. (Red steady light in case of an ATS controller internal fault. Switch the product from Auto to Manual and back to Auto to reset a fault condition).
- READY LED indication. (Green steady light : Product is powered and in AUTO, Watchdog OK, The Product is Available to changeover).
- 17. Enter Key used to enter Prog Mode (Press and hold for 5 seconds) and to validate the settings programmed through the keypad.
- 18. ESC key used to escape from a specific screen up to the main menu.
- 19. Lamp test key to check the LED's and LCD screen.
- 20. Green LED Indication: Power
- 21. Red LED Indication: Product Unavailable / Manual Mode / Fault Condition
- 22. Auto / Manual mode selector switch (Key version available as an option)
- 23. Padlocking facility (Up to 3 padlocks of dia. 4 - 8mm)
- 24. Emergency manual operation shaft location (Accessible only in manual mode)
- 25. Switch position indication window: I (On switch I) O (Off) II (On switch II).



# 4.2. Quick Start ATyS p Frame B6 to B8 (800 A to 3200 A)

# zsocomec

### QUICK START IN 800A - 3200A

Motorised Source Changeover Switch Automatic Transfer Switching Equipment

### Preliminary operations

Check the following upon delivery and after removal of the packaging:

- · Packaging and contents are in good condition.
- The product reference corresponds to the order.
- Contents should include:
- Qtv 1 x ATvS p
- Qty 1 x Emergency handle and fixing clip Quick Start instruction sheet

### Warning

Risk of electrocution, burns or injury to persons and / or damage to equipment.

This Quick Start is intended for personnel trained in the installation and commissioning of this product. For further details refer to the product instruction manual available on the SOCOMEC website.

- · This product must always be installed and
- Maintenance and servicing operations should be performed by trained and authorised personnel.
- Do not handle any control or power cables connected to the product when voltage may be, or may become present on the product, directly through the mains or indirectly through external circuits.
- · Always use an appropriate voltage detection device to confirm the absence of voltage.
- Ensure that no metal objects are allowed to fall in the cabinet (risk of electrical arcing)

Failure to observe good enginering practises as well as to follow these safety instructions may expose the user and others to serious injury or death.

#### 🗥 Risk of damaging the device

• In case the product is dropped or damaged in any way it is recommended to replace the complete product

### Accessories

- Bridging bars and connection kits.
- Control voltage transformer (400Vac -> 230Vac).
- DC power supply (12/24Vdc -> 230Vac).
- . Mounting spacers to raise the product x 10mm.
- · Phase barriers.
- Terminal shrouds / Terminal screens.
- · Auxiliary contacts (Additional).
- · Padlocking in 3 positions (I 0 II)
- · Lockout accessories (RONIS EL 11 AP).
- Door escutcheon frame
- ATyS D20 Interface (remote control / display unit).
- RJ45 cable for ATyS D20 => ATyS p.
- · Voltage sensing kit.
- Current transformers.
- Plug-in optional modules: RS485 MODBUS communication, 2 inputs/2 outputs, Ethernet communication, Ethernet communication + RS485 JBUS/MODBUS gateway, Analogue outputs, Pulse outputs.

For further details refer to the product instruction manual under chapter "Spares and Accessories"

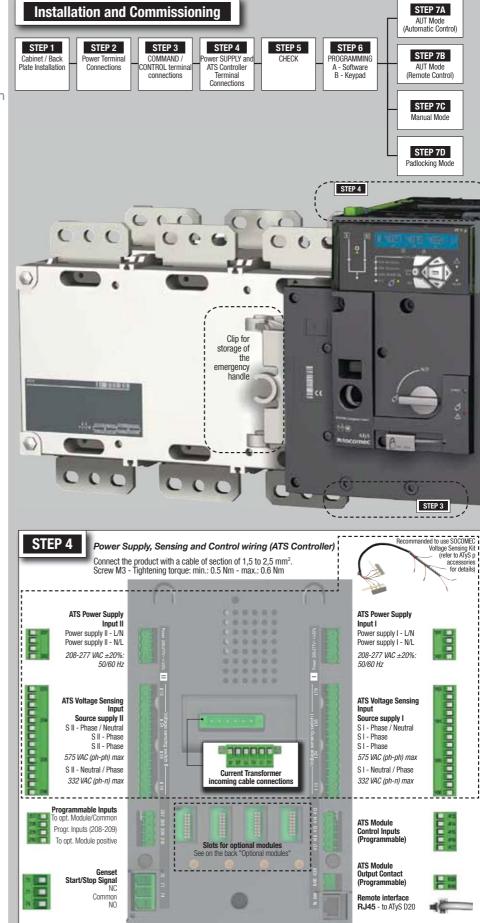


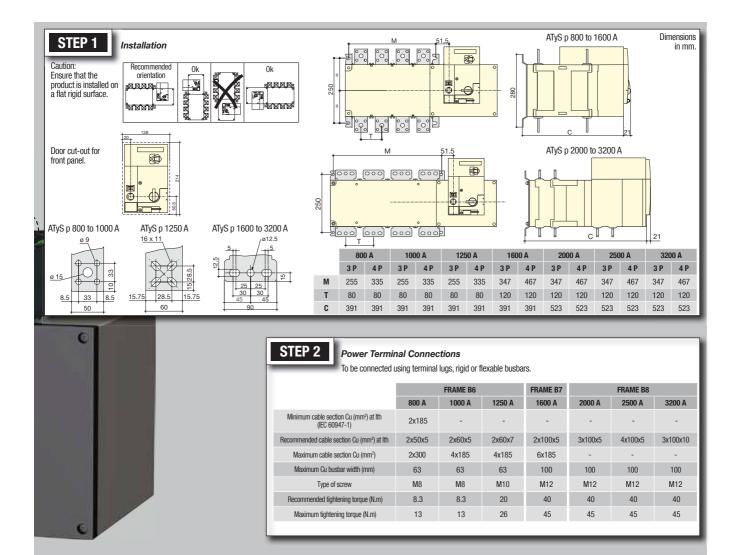
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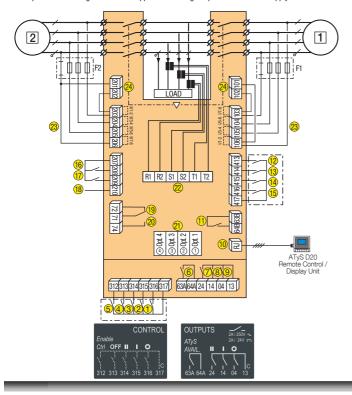


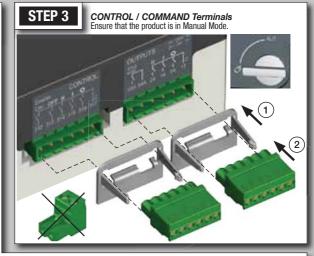






### Example: Control wiring for a 400VAC application having a 3 phase and neutral supply.



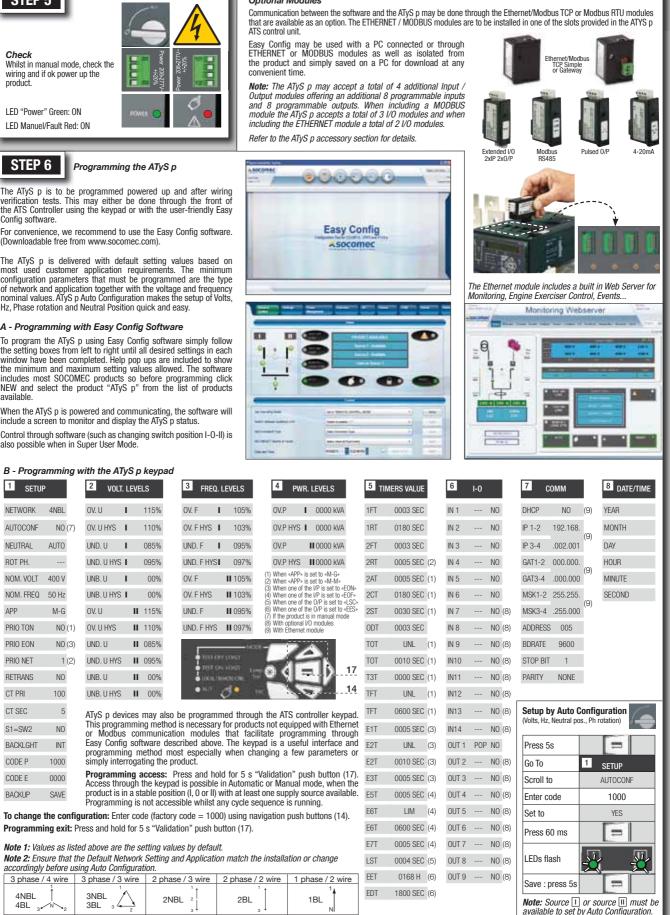


- 1 preferred source 2 alternate source
- Position 0 order 2
- Position 1 order 3. Position 2 order
- Zero position priority order
- 4. 5 Remote Control Enable (Priority over Auto)
- 6. Product Available output (Motor)
- Position II aux contact
- 8 Position I aux contact
- 9. Position 0 aux contact 10. O/P to ATyS D20 remote unit
- 11. Programmable Output Contact.
  - By default set to ATS Product Available Normally Open
- 12-15. Programmable Inputs 1-4 16-17. Programmable Inputs 5-6
- Aux. Supply (207/210) to be used with ATyS optional I/O modules
   Contact "Start/Stop Genset" : if S1 is not available the NC contact le contact (71-72) is close
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# «4.2. Quick Start ATyS p Frame B6 to B8 (800 A to 3200 A)» continued



#### **Optional Modules**



verification tests. This may either be done through the front of the ATS Controller using the keypad or with the user-friendly Easy Config software.

For convenience, we recommend to use the Easy Config software. (Downloadable free from www.socomec.com)

The ATyS p is delivered with default setting values based on most used customer application requirements. The minimum configuration parameters that must be programmed are the type of network and application together with the voltage and frequency nominal values. ATvS p Auto Configuration makes the setup of Volts. Hz, Phase rotation and Neutral Position quick and easy.

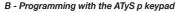
#### A - Programming with Easy Config Software

STEP 6

To program the ATyS p using Easy Config software simply follow the setting boxes from left to right until all desired settings in each window have been completed. Help pop ups are included to show the minimum and maximum setting values allowed. The software includes most SOCOMEC products so before programming click NEW and select the product "ATyS p" from the list of products available.

When the ATyS p is powered and communicating, the software will include a screen to monitor and display the ATyS p status

Control through software (such as changing switch position I-O-II) is also possible when in Super User Mode



1 SETUR	þ		2 <sub>VOLT</sub>	. LEVE	LS
NETWORK	4NBL		OV. U	L	115%
AUTOCONF	NO	(7)	OV. U HYS	I –	110%
NEUTRAL	AUTO		UND. U	I –	085%
ROT PH.			UND. U HYS	I –	095%
NOM. VOLT	400 V		UNB. U	I –	00%
NOM. FREQ	50 Hz		UNB. U HYS	I –	00%
APP	M-G		OV. U	П	115%
PRIO TON	NO	(1)	OV. U HYS	П	110%
PRIO EON	NO	(3)	UND. U	П	085%
PRIO NET	1	(2)	UND. U HYS	П	095%
RETRANS	NO		UNB. U	П	00%
CT PRI	100		UNB. U HYS	П	00%
CT SEC	5		ATyS p de	vices	may a
S1=SW2	NO		This progra		
BACKLGHT	INT		Easy Conf	ig sof	

programming method most especially when changing a few parameters or simply interrogating the product.

0000 product is in a stable position (I, 0 or II) with at least one supply source available. Programming is not accessible whilst any cycle sequence is running. SAVE

Programming exit: Press and hold for 5 s "Validation" push button (17).

Note 1: Values as listed above are the setting values by default.

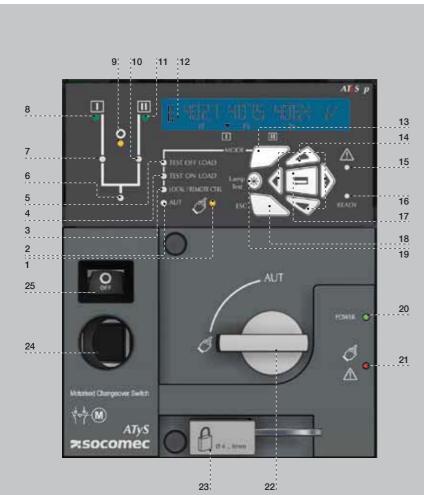
Note 2: Ensure that the Default Network Setting and Application match the installation or change accordingly before using Auto Configuration.

CODE P

CODE E

BACKUP

1000



- 1. MANUAL Mode LED indication. (Yellow steady light when in Manual Mode).
- 2. AUTO Mode LED indication Green steady light when in Auto mode with no timers running. Green flashing light when in Auto with timers
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