socomec
Innovative Power Solutions

QUICK START EN **40 - 160A (4P)**

ATyS t M

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 M
  - Qty 1 x Emergency handle extension rod
  - Qty 1 x Set of terminals
  - 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 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 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 125A or 160A.
- Control voltage transformer (400Vac -> 230Vac).
- Voltage sensing and power supply tap.
- Terminal shrouds.
- Auxilliary contact blocks.
- Polycarbonate enclosure.
- Polycarbonate extension box.
- Power Connection Terminals.
- Sealable cover.

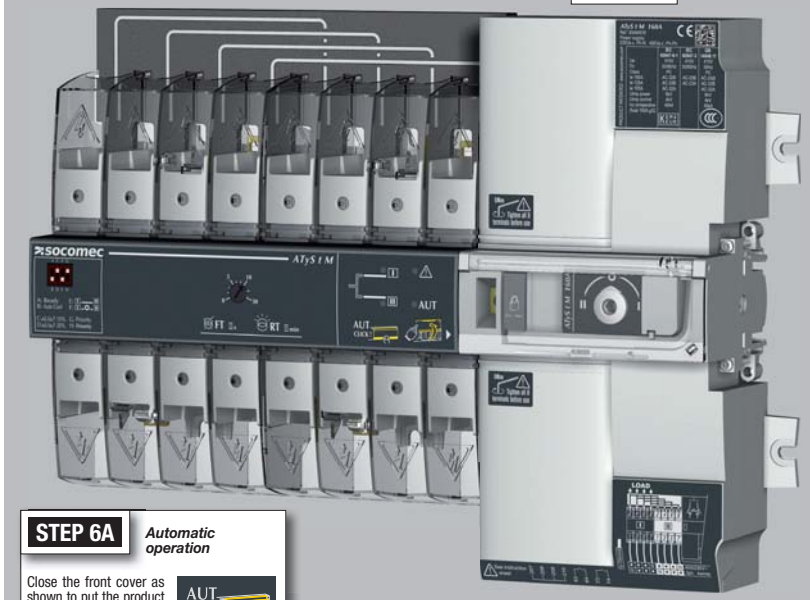
www.socomec.com
www.socomec.com/en/atys-t-m
To download, brochures, catalogues and technical manuals.

Printing informations: 1 color Black. White paper 90g/m².
Printing size: 420x297. Final size 210x297. This page visible first.
A separate sheet for each language.

542 930 B - 06/14 - EN
CE
Non contractual document.
Subject to change without notice.

Installation and Commissioning

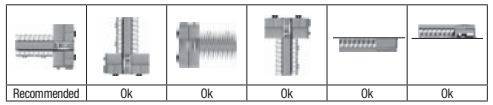
STEP 1 Cabinet / Back Plate Installation
STEP 2 Connecting the POWER section
STEP 3 CONTROL / AUX POWER terminal connections
STEP 4 CHECK
STEP 5 Programming
STEP 6A Automatic Operation
STEP 6B Emergency Manual Operation
STEP 6C Padlocking

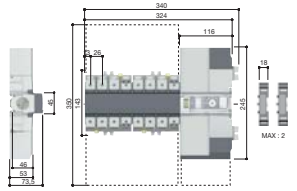


STEP 1 — Installation

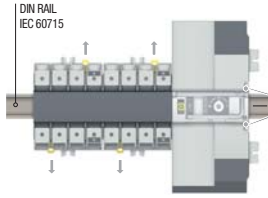
Caution: Ensure that the product is installed on a flat rigid surface.

Recommended orientation

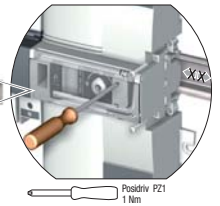


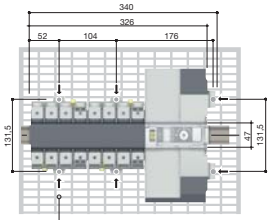


DIN RAIL
IEC 60715



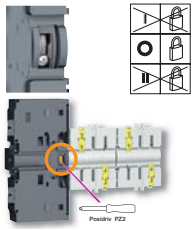
⚠ Tighten to avoid movement on the DIN rail.



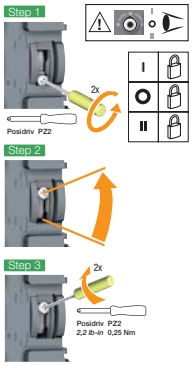


Padlocking configuration

⚠ The ATyS M is delivered with padlocking configured to the 0 position.



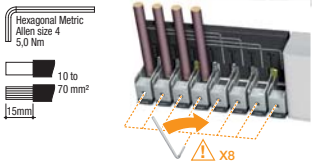
⚠ To allow padlocking in all positions (I - 0 - II), configure the ATyS M as follows before installation. (Screw is located at the back of the product).



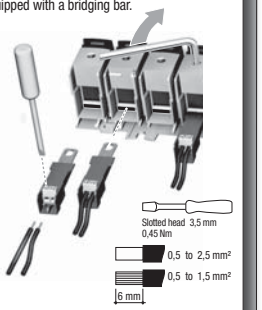
STEP 2 — Power Terminal Connections

⚠ It is essential to tighten all terminals including those not being used.

Load side bridging bar.
125A: 1309 4006
160A: 1309 4016



Voltage taps provide 2x ≤ 1,5mm² connections. They can be fitted in any terminals on the source supply side. Do not use on the load side when equipped with a bridging bar.

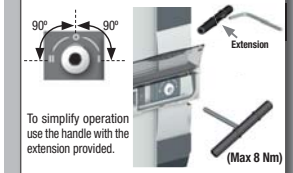


STEP 6A — Automatic operation

Close the front cover as shown to put the product into automatic mode.

STEP 6B — Manual operation

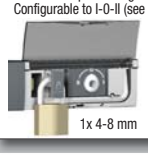
- Open the front cover as shown to put into manual mode.
- Use the handle situated in the front panel under the cover to operate the transfer switch.
- Check the changeover switch position on the indicator before operating.



To simplify operation use the handle with the extension provided.

STEP 6C — Padlocking mode

- In order to padlock put the product in manual mode.
- Pull the locking mechanism and insert a padlock as shown.
- As standard padlocking in the 0 position. Configurable to I-0-II (see step 1).



STEP 4 — Check

Whilst in manual mode, check the wiring and if ok power up the product. ⚠ ⚠

STEP 5 — Programming

■ Auto conf. of the network voltage and frequency.

Setting mode A-B

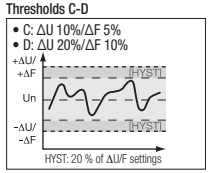
- A: Ready
- B: Auto Conf (Auto-configuration)

1. Put dipswitch A-B to position B. (All Led's should be blinking).
2. When the LED's become a steady light ON, configuration of the network is ready.
3. Put dipswitch A-B back to A.

■ Set dip switches C-D, E-F, G-H

Thresholds C-D

- C: ΔU 10%/ΔF 5%
- D: ΔU 20%/ΔF 10%



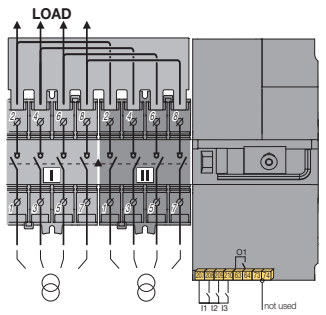
Stop in 0 position E-F

- E: No stop in 0 position
- F: 2s stop in 0 position

Priority G-H

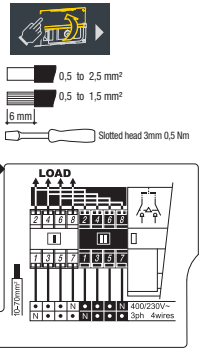
- G: With priority
- H: Without priority

STEP 3 — CONTROL / AUX POWER Terminals and wiring

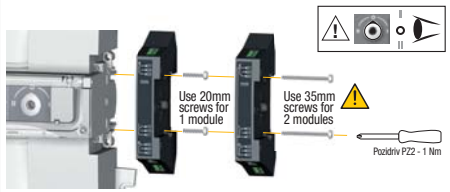


Type	Terminal no.	Description	Characteristics	Recommanded connection cross-section
Inputs	207	Common	Do not connect to any power supply	0,5 to 2,5 mm² (rigid) 0,5 to 1,5mm² (stranded)
	208	Position 0 order		
	209	Open SI priority. Closed S2 priority.		
	210	Inhibition ATS		
Outputs	63/64	Open: SI and S2 NOT available. Closed: SI or S2 available		
	73/74	Not used		
Auxiliary contacts unit.	11/12/14	Position I	Dry potential free contact 250Vac 5A AC1 24Vdc 2A	
	21/22/24	Position II		
	01/02/04	Position 0		

Ensure that the product is in Manual Mode (front cover open).

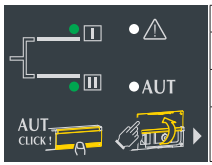


Auxiliary contacts: Fitting of auxiliary contacts: 1309 0001 or 1309 0011
To fit an AC, the switch must first be put in position 0. An auxiliary contact module comprises: one NO/NC changeover contact for each position (I-0-II). To install use the long screws supplied with the module.



■ Set potentiometer for priority supply "Failure and Return Timer"
FT: 0-30 sec / RT: 0-30 min.

■ Source availability LED's



Source		
LED ON	Source 1 available	Source 2 available
LED OFF	Source 1 not available	Source 2 not available
LED blinking	- a timer is counting down	- a timer is counting down