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ATyS C66

c **US**
LISTED

ATS Controller

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 C66 Controller
 - Qty 1 x Controller gasket for NEMA 3R12
 - Qty 4x door mounting screws
 - Qty 4x backplate mounting feet

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 authorized 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 engineering practices 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.
- Installation standards must be respected.

Accessories

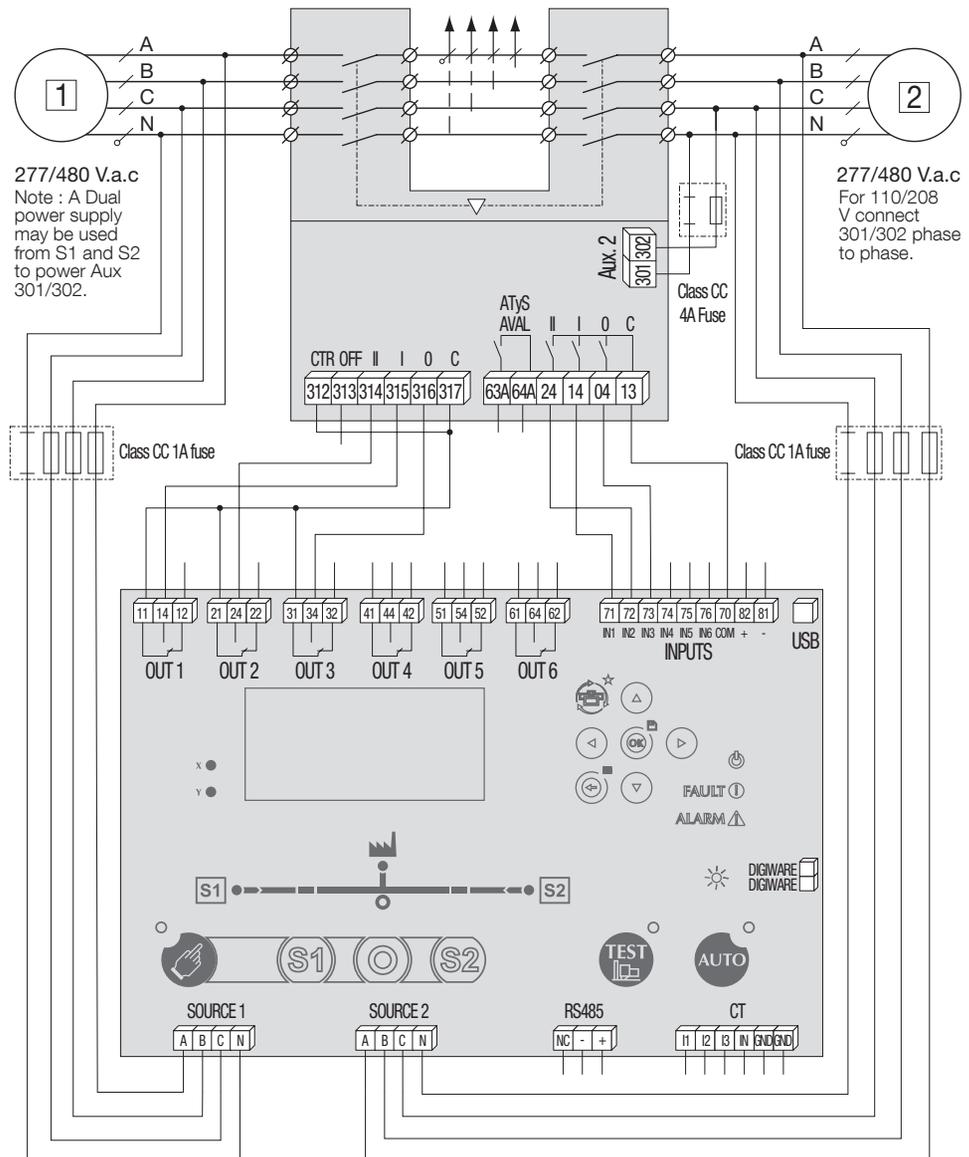
- Digiware I/O 10 (ref. 48290140)
 - Gateway M70 (ref. 48290222)
 - Controller 24 VDC aux power supply (6W minimum type SELV) mandatory with I/O 10 Modules (Ref. 4829 0120)
- * For further details refer to the product instruction manual under chapter "Spares and Accessories".

Spares

- Connector kit (ref. 16090002)
- Controller mounting feet (ref. 16090005)
- Controller mounting screws (ref. 16090004)
- Controller NEMA 3R12 gasket (ref. 16090001)

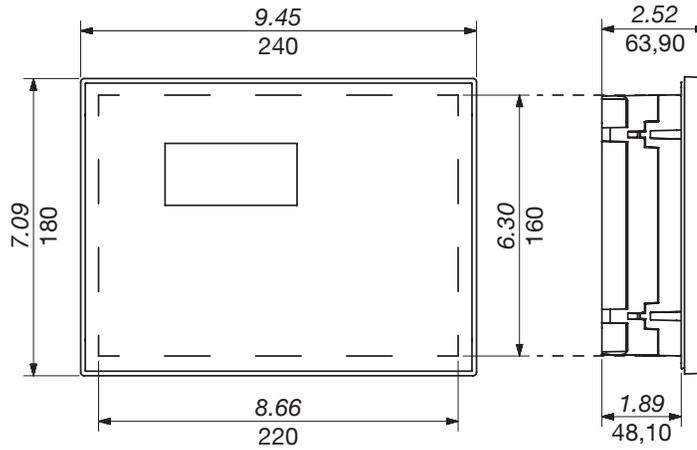


Connection diagram with ATYS UL



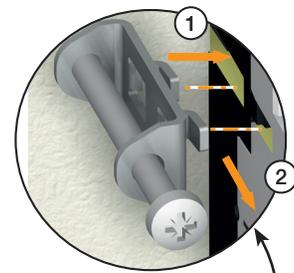
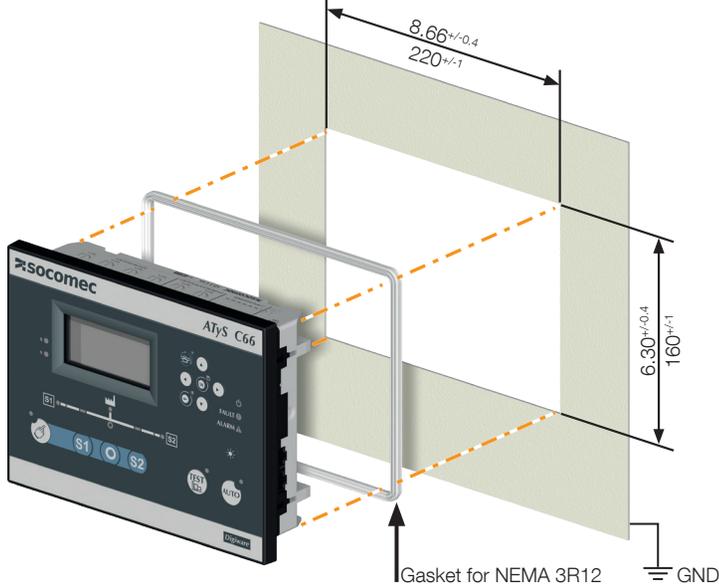
Product dimensions

Dual Dimensions
in/mm



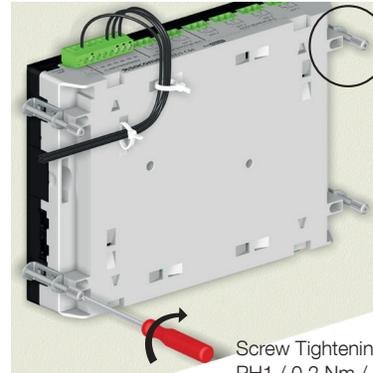
1 Mounting & connecting controller

Door mounting



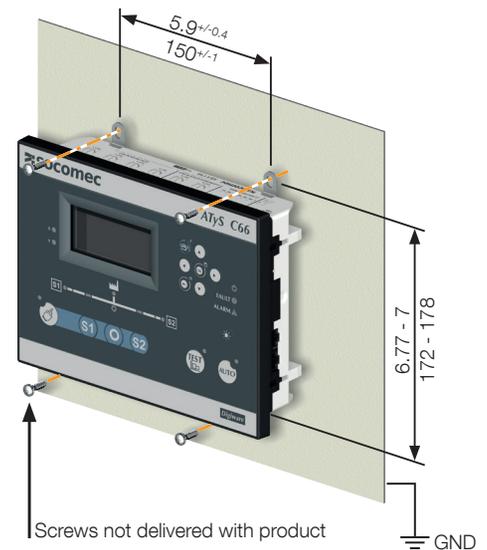
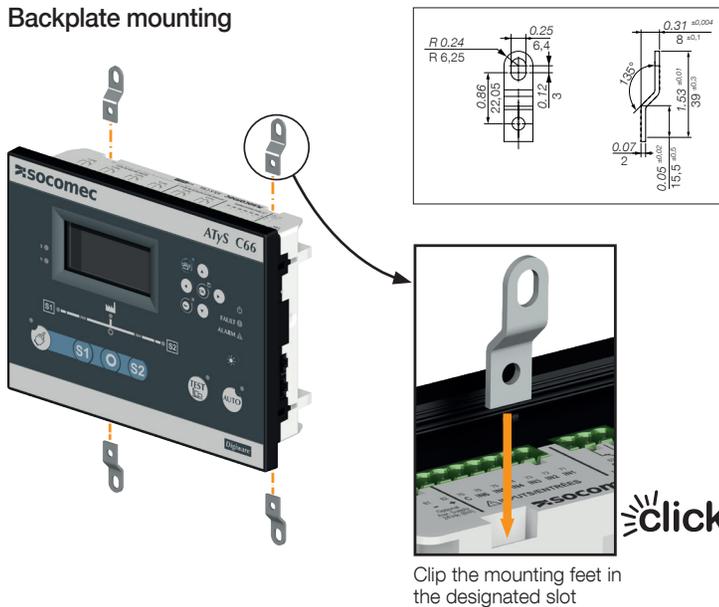
Insert the 4 door mounting screws in the designated slot and push back to lock in place.

Example of cable way.

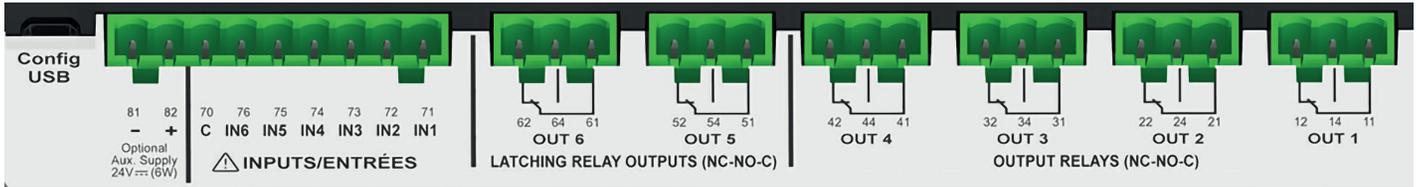


Screw Tightening torque
PH1 / 0.2 Nm / 1.77 lb.in

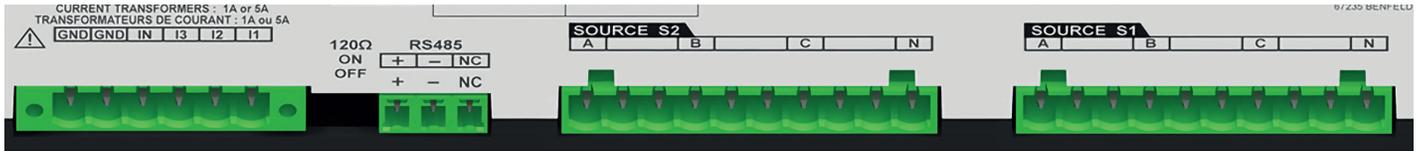
Backplate mounting



2 Controller wiring



Top view

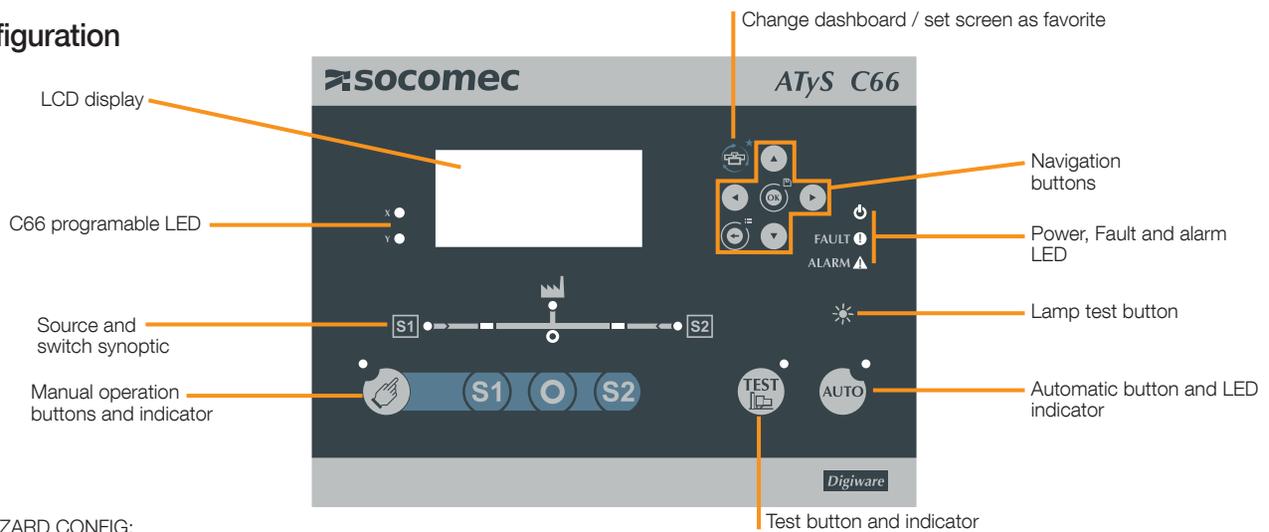


Bottom view

Type	Terminal N°	Description	Characteristics	Recommended cross section
Inputs	71	IN1: programmable input 1	Do not connect to any power supply from terminal 70 common point.	1.5-2.5mm ² AWG 16-14 Tightening torque 0.5-0.6 Nm 4.4-5.3 Lb.in
	72	IN2: programmable input 2		
	73	IN3: programmable input 3		
	74	IN4: programmable input 4		
	75	IN5: programmable input 5		
	76	IN6: programmable input 6		
Aux power supply	81/82	- : negative terminal for aux supply + : positive terminal of aux supply	12-24 Vd.c.	
Outputs	12/14/11	OUT1: programmable output 1	Dry contacts 8A / 277 VAC 50/60 Hz 5A / 24 VDC	
	22/24/21	OUT2: programmable output 2		
	32/34/31	OUT3: programmable output 3		
	42/44/41	OUT4: programmable output 4		
Latching relays	52/54/51	OUT 5: programmable output 5 (latching)		
	62/64/61	OUT 6: programmable output 6 (latching)		
Current transformers	IN/13/12/11	CT neutral / CT phase C / CT phase B / CT phase A	CT input 1A or 5A	
Serial connection	RS485	Connection RS485 - : negative terminal of RS485 bus + : positive terminal of RS485 bus NC : Ground	RS485 bus insulated	LIYCY shielded twisted pair 0.14 to 1.5 mm ² / 30-14 AWG Tightening torque 0,22 -0,25 Nm 1.9-2.2 Lb.in
Digiware*	DIGIBUS	Connection point for I/O 10 optional accessories (must use 24 VDC input)	RJ 45 digiware cable	

* For more information check I/O module instruction sheet ref 545597.

3 Configuration



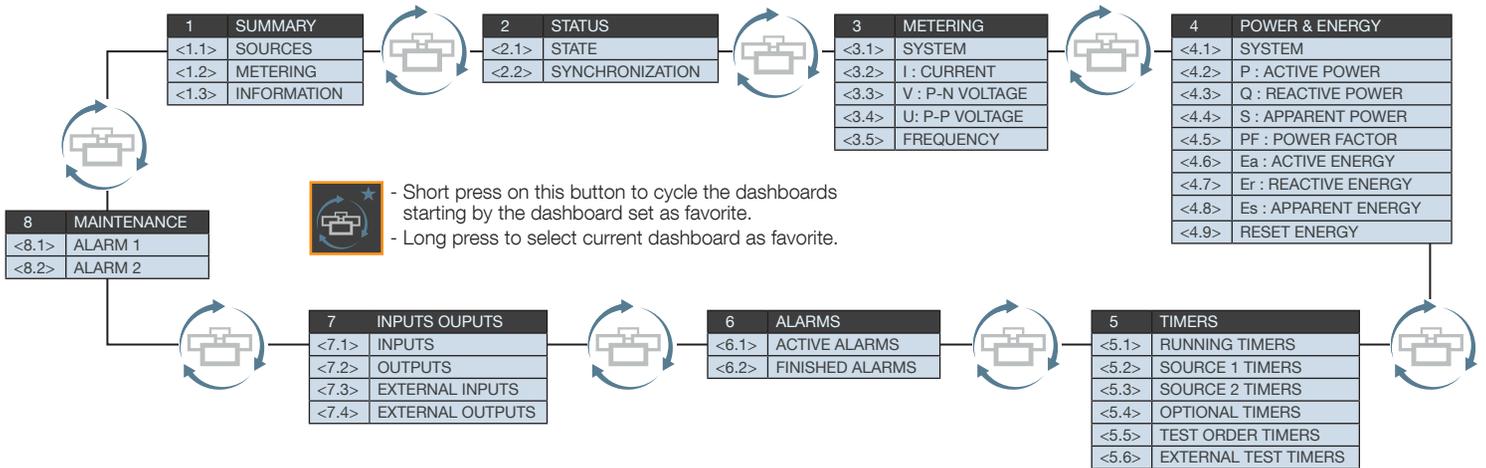
SMART WIZARD CONFIG:

When powered for the first time the controller will prompt the user to configure using the wizard. To access the wizard input code 1000 then the configuration will go as follow:



For advanced configuration go to parameters menu.

4 Visualization



5 Menus & programming



- Short press on this button to go back one level.
- Long press to access the menus.

MAIN MENU
CONTROL
LOG
STATISTICS
ENGINE EXERCISER
PARAMETERS
SPECIFIC FUNCTIONS
MAINTENANCE
ABOUT
CONTROL
MODE / POSITION
TEST
MANUAL RETRANSFER
LOG
EVENT LOG
EVENT BY DATE
ALARM LOG
FAULT LOG
STATISTICS
CYCLES
OPERATIONS
OPERATING HOURS
SOURCE 1
SOURCE 2
GENSET 1
GENSET 2
BREAKER
BYPASS
EXERCISER
GENERAL PARAMETERS
CUSTOM 1
CUSTOM 2
CUSTOM 3
CUSTOM 4

SPECIFIC FUNCTIONS
MANUAL RETRANSFER
INPHASE TRANSFER
GO TO CENTER OFF
ELEVATOR
FORCED LOAD SHEDDING
SMART LOAD SHEDDING
POWER UP IN AUTO
HVAC COMPRESSOR
TRIPPING ACTION
LOAD ADDING
CYCLER
COMMIT TO TRANSFER
DYNAMIC RETURN TIMER

PARAMETERS
NETWORK
LOAD
DISPLAY
TIMERS
I/O
COMMUNICATION
ALARMS
PASSWORDS
WIZARD
NETWORK
AUTODETECT
SETUP
APPLICATION
OP RANGE S1
OP RANGE S2
LOAD
LOAD STATUS
LOAD TYPE
RATED CURRENT
LOAD NAME
CT PRIMARY
CT SECONDARY
NEUTRAL CT PRIMARY
NEUTRAL CT SECONDARY
CT PHASE A POLARITY
CT PHASE B POLARITY
CT PHASE C POLARITY
CT NEUTRAL POLARITY
DISPLAY
SCREEN
DATE AND TIME
LED CONFIG
OPTIONS
CHANGE PRODUCT NAME
SCREENSAVER TEXT

TIMERS
OPERATION
GENSET SOURCE 1
GENSET SOURCE 2
LOAD TESTS
NO LOAD TESTS
I/O
INPUTS
OUTPUTS
EXTERNAL I/O DETECTION
EXTERNAL I/O CONFIG
COMMUNICATION
MODBUS ADDRESS
RS485 MODBUS
DIGIBUS COMM
DIGIWARE MODE
ALARMS
MEASURE ALARMS
COMBI ALARMS
LOGICAL ALARMS
MAINTEN. ALARMS
SYSTEM ALARMS
PASSWORDS
CHANGE OPERATOR PWD
CHANGE CONFIG PWD
CHANGE MAINTENANCE PWD
BACK