

QUICK START EN 800 A - 3200 A

VyS p

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

🗥 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.

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- 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).
- For 800 3200 A (Uimp = 12 kV). Terminations must respect a minimum of 14 mm clearance from live parts to parts intended to be earthed and between poles.

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 (400 VAC → 230 VAC).
- DC power supply (12/24 VDC → 230 VAC).
- · 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.
- · 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".



www.socomec.com To download, brochures, catalogues and technical manuals: http://www.socomec.com/en/ documentation-atys-p

Installation and Commissioning





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STEP 7A



STEP 2 **Power Terminal Connections**

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To be connected using terminal lugs, rigid or flexable busbars,	I	RAME B6		FRAME B7	FRAME B8					
	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A			
Minimum cable section Cu (mm ²)	2x185	-	-	-	-	-	-			
Recommended cable section Cu (mm ²)	2x50x5	2x63x5	2x63x7	2x100x5	3x100x5	2x100x10	3x100x10			
Maximum Cu cable cross-section (mm ²)	4x185	4x185	4x185	6x185	-	-	-			
Maximum Cu busbar width (mm)	63	63	63	100	100	100	100			
Type of screw	M8	M8	M10	M12	M12	M12	M12			
Recommended tightening torque (/b.in/N.m)	<i>73.46</i> /8.3	<i>73.46</i> /8.3	1 <i>77.02</i> /20	<i>354.04</i> /40	<i>354.04</i> /40	<i>354.04</i> /40	<i>354.04</i> /40			
Maximum tightening torque (/b.in/N.m)	115.06/13	115.06/13	230.13/26	<i>398.30</i> /45	398.30/45	<i>398.30</i> /45	<i>398.30</i> /45			

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

LED "Power" Green: ON LED Manuel/Fault Red: ON



STEP 6 Programming the ATyS p

The ATyS p is to be programmed powered up and after wiring 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. ATyS p Auto Configuration makes the setup of Volts, Hz, Phase rotation and Neutral Position quick and easy.

A - Programming with Easy Config Software

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.





B - Programming with the ATyS p keypad

1 SETUR	þ	2 VOLT. LE	/ELS	3 FREQ	. LEVELS	4	PWR	. LEVELS	5 TIM	ERS VALUE		6	I-0		7 (омм		8 DATE/TIME	
NETWORK	4NBL	OV. U	115%	OV. F	1 05%	OV.P	1	0000 kVA	1FT	0003 SEC		IN 1		NO	DHCP	NO	(9)	YEAR	
AUTOCONF	NO (7)	OV. U HYS I	110%	OV. F HYS	I 103%	OV.P I	HYS I	0000 kVA	1RT	0180 SEC		IN 2		NO	IP 1-2	192.168.	(0)	MONTH	
NEUTRAL	AUTO	UND. U	085%	UND. F	095%	OV.P		110000 kVA	2FT	0003 SEC		IN 3		NO	IP 3-4	.002.001	(9)	DAY	
ROT PH.		UND. U HYS I	095%	UND. F HYS	097%	OV.P I	HYS	110000 kVA	2RT	0005 SEC	(2)	IN 4		NO	GAT1-2	000.000.		HOUR	
CHECK ROT	YES	UNB. U	00%	OV. F	∎ 105%	(1) When « (2) When «	APP» is APP» is	set to «M-G» set to «M-M»	2AT	0005 SEC	(1)	IN 5		NO	GAT3-4	.000.000	(0)	MINUTE	
NOM. VOLT	400 V	UNB. U HYS I	00%	OV. F HYS	103%	(3) When c (4) When c	ine of th	ne I/P is set to «EON» ne I/P is set to «EOF»	2CT	0180 SEC	(1)	IN 6		NO	MSK1-2	255.255.	(9)	SECOND	
NOM. FREQ	50 Hz	OV. U I	115%	UND. F	∎ 095%	 (5) When c (6) When c (7) If the p 	ine of th ine of th roduct is	ne O/P is set to «LSC» ne O/P is set to «EES» s in manual mode	2ST	0030 SEC	(1)	IN 7		NO (8)	MSK3-4	.255.000	(0)		
APP	M-G	OV. U HYS	110%	UND. F HYS	∎ 097%	(8) With op (9) With Et	tional I/	O modules nodule	ODT	0003 SEC		IN 8		NO (8)	ADDRES	S 005	(9)		
PRIO TON	NO (1)	UND. U	085%		мо	DE -			ТОТ	UNL	(1)	IN 9		NO (8)	BDRATE	9600			
PRIO EON	NO (3)	UND. U HYS	095%	TEST C					ТОТ	0010 SEC	(1)	IN10		NO (8)	STOP BI	· 1			
PRIO NET	1 (2)	UNB. U	00%		REMOTE CTRL	mp 🛞 🔇		. 17	T3T	0000 SEC	(1)	IN11		NO (8)	PARITY	NONE			
RETRANS	NO	UNB. U HYS	00%	● AUT	<i>C</i> ? •	ESC		1 4	TFT	UNL	(1)	IN12		NO (8)					
RETURN 0	NO	ATyS p devices	may also b	er keypad.	TFT	0600 SEC	(1)	IN13		NO (8)	Setup by	Setup by Auto Configuration							
CT PRI	100	This programn Modbus comm	ning method	is necessary	/ for product acilitate pro	ts not equ orammino	with Ethernet or ugh Fasy Config	E1T	0005 SEC	(3)	IN14		NO (8)	(VOITS, HZ	vons, Hz, Neutral pos., Ph rotation)				
CT SEC	5	software desc	ibed above.	The keypad	is a useful ir	iterface a	nd pro	ogramming	E2T	UNL	(3)	0UT 1	POP	NO	Press 5	s			
S1=SW2	NO	the product.		roop and hale	for E a "Val	lidation" n	uob b	wtton (17)	E2T	0010 SEC	(3)	0UT 2		NO (8)	Go To	1	s	ETUP	
BACKLGHT	INT	Access throug	the keypad	l is possible	in Automatic	or Manua	al mo	de, when the	E3T	0005 SEC	(3)	OUT 3		NO (8)	Scroll t)	A	UTOCONF	
CODE P	1000	Programming	stable posit s not acces	ion (I, 0 or II) sible whilst a	with at leas ny cycle sec	t one supp quence is	oly soi runnir	urce available. ng.	E5T	0005 SEC	(4)	OUT 4		NO (8)	Enter c	ode		1000	
CODE E	0000	To change the	configurat	t ion: Enter co	de (factory	code = 10	000) u	ising navigation	E6T	LIM	(4)	0UT 5		NO (8)	Set to			YES	
BACKUP	SAVE	push buttons (Programming	14). exit: Press	and hold for	5 s "Validati	ion" push	butto	n (17).	E6T	0600 SEC	(4)	0UT 6		NO (8)	Press 6	0 ms			
Note 1: Valu	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.							E7T	0005 SEC	(4)	0UT 7		NO (8)						
Note 2: Ensu befo								nge accordingly	LST	0004 SEC	(5)	8 TUO		NO (8)	LEDs fl	ash			
3 phase /	4 wire	3 phase / 3 wir	e 2 phas	e / 3 wire	2 phase /	2 wire	1 pł	hase / 2 wire	EET	0168 H	(6)	0UT 9		NO (8)	Save :		٦		
4NBL 4BL 34		3NBL 3BL 3	2NI	$BL \begin{bmatrix} 1\\2\\3 \end{bmatrix}$	2BL	¹ ↓		1BL N	EDT	1800 SEC	(6)				Note: So av	oS urce or ailable to set	r sour by Au	rce II must be to Configuration.	

Optional Modules

Communication between the software and the ATyS p may be done through the Ethernet/Modbus TCP or Modbus RTU modules that are available as an option. The ETHERNET / MODBUS modules are to be installed in one of the slots provided in the ATYS p ATS control unit. Easy Config may be installed on a PC connected through ETHERNET or MODBUS modules for a direct ATyS configuration, either isolated with possibility to create a specific configuration for a later

upload and use in ATyS.



Note: The ATyS p may accept a total of 4 additional Input / Output modules offering an additional 8 programmable inputs and 8 programmable outputs. When including a MODBUS module the ATyS p accepts a total of 3 I/O modules and when including the ETHERNET module a total of 2 I/O modules.

Refer to the ATyS p accessory section for details.

- 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 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 n kewnad. Remote control mode is achieved with the
- ATyS p 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) 13. MODE key to shift between operation modes.
- 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).
- 16. READY LED indication. (Green steady light : Product is powered and in AUTO, Watchdog OK, The Product is Available to changeover).

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- 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)

Manual Operation

Padlocking Mode

(as standard : in position 0)

STEP 7C

STEP 7D

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2000 A - 3200 A



STEP 7B **AUT Mode (Remote Control)**



To enable control, close contact 312 with 317. For contactor logic bridge contact 316 with 317. To operate: close the contact corresponding to the desired position. To force the product to 0 position "OFF" bridge contact 313 with 317

Dimensions in./mm.







1,12 28,5

2.36 60







	800 A 1000 A					1250 A				1600 A				2000 A				2500 A				3200 A						
	3 P		4 P		3 P		4 P		3 P		4 P		3 P		4 P		3 P		4 P		3 P		4 P		3 P		4 P	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
С	15.39	391	15.39	391	15.39	391	15.39	391	15.39	391	15.39	391	15.39	391	15.39	391	523	20.59	523	20.59	523	20.59	523	20.59	523	20.59	523	20.59
F	19.84	504	22.99	584	19.84	504	22.99	584	19.84	504	22.99	584	23.46	596	28.19	716	23.46	596	28.19	716	23.46	596	28.19	716	23.46	596	28.19	716
М	10.04	255	13.19	335	10.04	255	13.19	335	10.04	255	13.19	335	13.66	347	18.39	467	13.66	347	18.39	467	13.66	347	18.39	467	13.66	347	18.39	467
Т	3.15	80	3.15	80	3.15	80	3.15	80	3.15	80	3.15	80	4.72	120	4.72	120	4.72	120	4.72	120	4.72	120	4.72	120	4.72	120	4.72	120
Х	1.87	47.5	1.87	47.5	1.87	47.5	1.87	47.5	1.87	47.5	1.87	47.5	2.09	53	2.09	53	2.11	53,5	2.11	53,5	2.11	53,5	2.11	53,5	2.11	53,5	2.11	53,5

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