





ATyS FT c**Al**us

Spare switch / Standalone 100 A, 200 A, 260 A, 400 A



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 FT Qty 1 x Terminal screw kit Quick Start Guide

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.

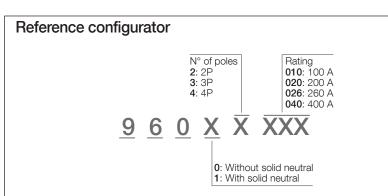
Accessories / Spares

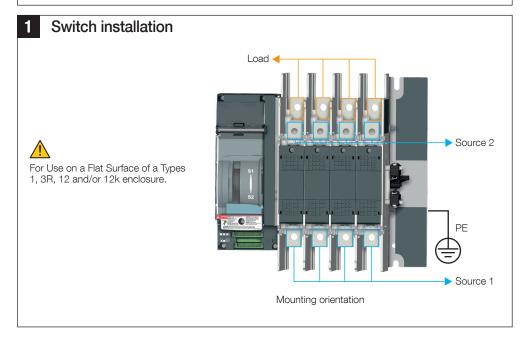
Accessories are not included and must be ordered separately.

- Terminal shrouds (see step 8).
- Additional aux contacts (ref. 96990021).
- Digiware I/O 10 (ref. 48290140).
- Transformer 480 240 VAC (SPARTAN SP350MQMJ).
- Controller 24 VDC aux power supply (6W minimum type SELV) mandatory with I/O 10 Modules.
- Power terminal lugs (see step 4).
- ATyS C66 Controller (ref. 16000066).
- Connector kit (ref. 16090002).
- Controller Nema 3R gasket (ref. 16090001).
- Controller mounting screws (ref. 16090004).
- Controller mounting feet (ref. 16090005).
- Cable harness without transformer (ref. 96964000).
- Cable harness with transformer (ref. 96974000).

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





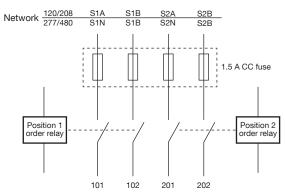


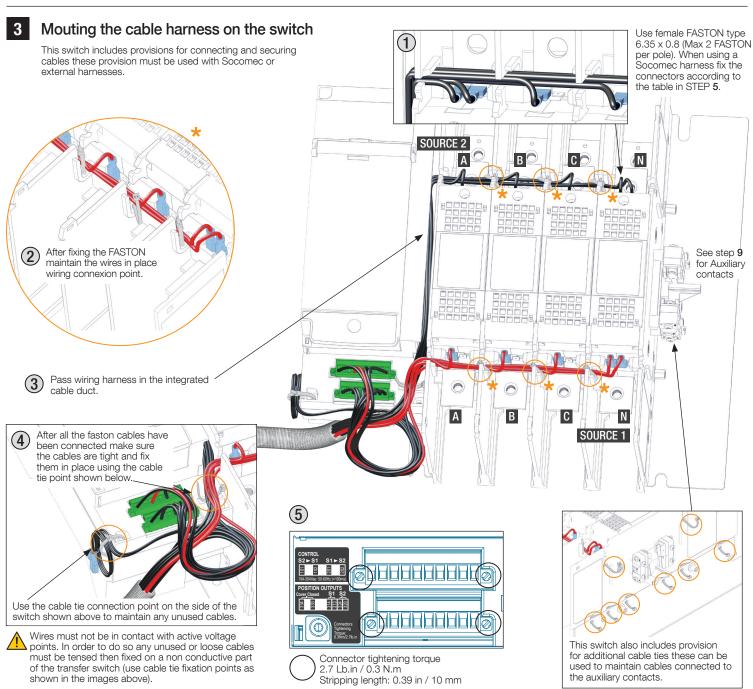
Power supply and actuator connections

The following connection points are available on the RTSE:

Туре	Terminal N°	Description	Characteristics	Recommended Cross Section		
Switch power input	101-102	Order switch to position S1	194-304 VAC 8 A for at	17-14 AWG		
Switch power input	201-202	Order switch to position S2	least 100 ms 50/60 Hz	1-2.5 mm ²		
	333-334	Contact closed if cover is closed Potential free dry		Length:		
Switch Signalization output	313-314	Contact closed if the switch is in position S1	contacts - for use with controller.	min: 39in / max: 118in min.: 1000mm / max: 3000mm		
	323-324	Contact closed if the switch is in Position S2	8A, 250 VAC.	min 1000mm/ max. 3000mm		

MARNING: Each power input (101/102/201/202) must be kept open with individual contacts. Never close all four contacts simultaneously. See schematic below:





4 Installing terminal lugs (optional accessory)

Use terminal screws and washers supplied with the ATSE

ode terminal drews and washers supplied with the Artist																
Product	Designation	Ref. lugs	Quantity per	por 1 Openings		Size / Section (AWG)		Pressure screw torque			Bolt torque				JH.	
Rating (A)			reference	per lug	min.	max.	lb.in	Nm	Si	ze in	lb.in	Nm	3	Size	in	mm
100A	Ilsco D0957	Conta	ct us	1	14	1/0	50	5,65	0	8	70.8	8	0	5mm	0.625	15,9
200A	llsco D2831	Contact us		1	6	250 KCMIL	275	31,1	0	5/16	70.8	8	0	5mm	1	25,4
100-200 A	CMC LA-300R	39542020 39543020 39544020	2 3 4	1	6	300 KCMIL	275	31,1	0	5/16	70.8	8	0	5mm	1.12	28,4
260-400 A	CMC LA-630R	39542040 39543040 39544040	2 3 4	1	4	600 KCMIL	550	62,1	0	1/2	310	35	0	8mm	1.79	45,7
260-400 A	Ilsco D3096	Contact us		1	4	600 KCMIL	600	67,8	0	1/2	310	35	0	8mm	1.79	45,7





Mount the load terminal lugs on the switch terminals before mounting source 2 terminal lugs.

Power cable connections: For 100A use 1/0 AWG / For 200A use 250 KCMIL / For 260A use 300 Kcmil / For 400A use 600 Kcmil copper cables.

5 Connection of harness on the switch (Socomec harness only)

Connect the faston on the switch connexion according to your network and the table below:

								Voltage Transformer			
				RTSE fast	480	VAC	240	VAC			
							Prin	nary	Seco	ndary	
Network type	Туре	Source	А	В	С	N	H1	H4	X1	X4	
240 VAC	OD	S2	S2A & 201	S2B	None (1)	None (1)					
240 VAC	2P	S1	S1A & 102	S1B	None (1)	None (1)					
120/240 VAC	2P + N	S2	S2A & 201	S2B	None (1)	S2N					
120/240 VAC	2P + N	S1	S1A & 102	S1B	None (1)	S1N					
208 VAC	3P	S2	S2A & 201	S2B	S2C	None (1)					
206 VAC		S1	S1A & 102	S1B	S1C	None (1)					
120/208 VAC	3P+N / 4P	S2	S2A & 201	S2B	S2C	S2N					
120/200 VAC		S1	S1A & 102	S1B	S1C	S1N					
277/480 VAC	3P+N / 4P	S2	S2A	S2B	S2C	S2N & 201					
211/400 VAC		S1	S1A	S1B	S1C	S1N & 102					
480 VAC + transfo	3P	S2	2xS2A	2xS2B	S2C	-	T2A	T2B	T2A'	T2B'	
480 VAC + transfo	JP	S1	2xS1A	2xS1B	S1C	-	T1A	T1B	T1A'	T1B'	

⁽¹⁾ Cables which are not used are to be fastened as shown in image 4 of step 3.

6 Operational limits

Operating voltage @ 50/60 (+/- 10%) Hz										
Network	Minimum Coil Operating voltage (VAC)	Maximum Coil Operating voltage (VAC)								
277/480 VAC	194 (Ph/N)	304 (Ph/N)								
120/208 VAC	194 (Ph/Ph)	304 (Ph/Ph)								
120/240 VAC	194 (Ph/Ph)	304 (Ph/Ph)								
480 VAC with transformer	194 (Ph/N)	304 (Ph/N)								

Operating temperature							
Switch and Transformer							
32 to 131°F 0 to +55°C							

	Operating times (1)											
Rating	Transfer description	Minimum transfer time (ms) (Normal to alternate)	Minimum transfer time (ms) (Alternate to normal)	Maximum transfer time (ms) (Normal to alternate)	Maximum transfer time (ms) (Alternate to normal)							
100-200 A	Contact transfer time (2)	24	21	31	27							
260-400 A	Contact transfer time (2)	30	27	45	32							

⁽¹⁾ All times measured without load and at 240 VAC at ambient temperature, actual times may vary depending on network and load.

⁽²⁾ Time for which load is disconnected from both source 1 and source 2 with both sources available.

Manual operation (for maintenance purpose only) Instructions for manual, non-electric, offload operations for service

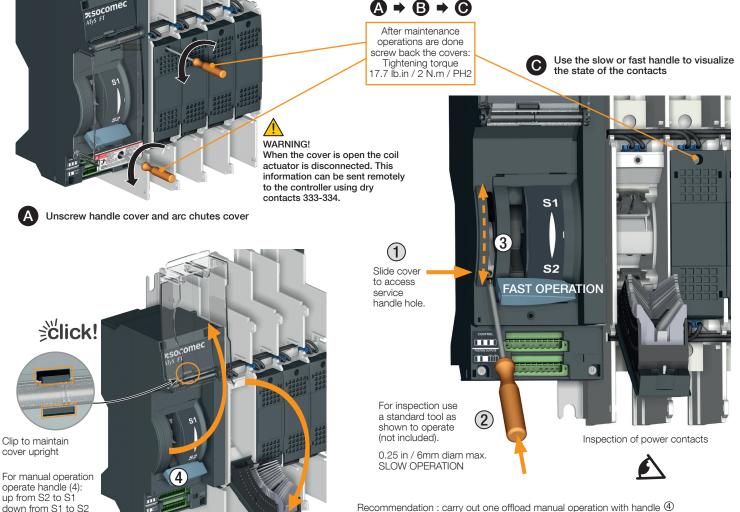
FAST OPERATION

Open the cover and click in place and

open the arc chute

WARNING! More than one live circuit! Disconnect all sources of supply before servicing and/or before using the manual operation.

OPERATION ORDER



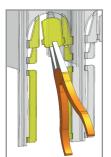
Recommendation: carry out one offload manual operation with handle @ (FAST OPERATION) before putting the switch back in service.

Reverse the procedure to close.

Ensure that all is closed properly before putting back in service. In case any part of the ATyS FT switch is found to be damaged in any way, replace the complete switch.

8 Installing power terminal shrouds (optional accessories)

Top and bottom protection against direct contact with terminals or connecting parts.

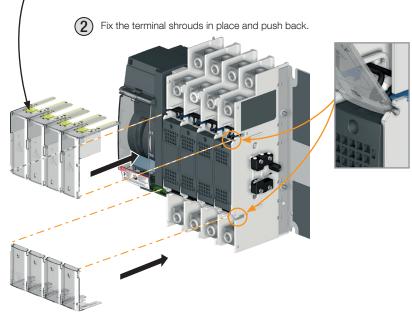


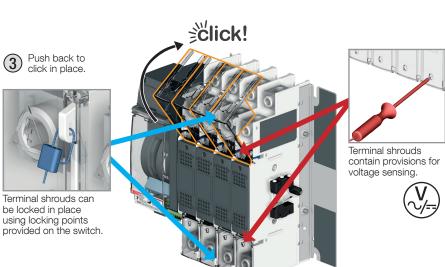
For 250, 300 & 600 KCMIL (200 , 260 400A) break off all removable

parts (highlighted on the picture). For 1/0 & (100A) do not remove any parts.									
	No. of poles Reference*								

	No. of poles	Reference*
	2P	96982020
100-200A	3P/2P+N	96983020
	4P/3P+N	96984020
	2P	96982040
260-400A	3P/2P+N	96983040
	4P/3P+N	96984040

Refs: top and bottom





PERIODIC MAINTENANCE

The ATyS FT shall be maintained in accordance with industry standards and as per instructions in the ATyS FT instruction sheet.

As per NFPA 110 requirements for emergency and standby power systems the ATyS FT should be inspected and should be exercised under load at least monthly.

Refer to step 7 for instructions for manual, "non-electric", offload operations for service.



WARNING! More than one live circuit! Disconnect all sources of supply before servicing and/or before using the manual operation.

Additional auxiliary contacts

Switch has 2 pre-installed auxiliary contacts, the kit below is for 2 additional contacts with protection against direct contact.



Terminal tightening torque 7.9 lb.in / 0.9 Nm

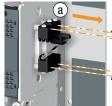
Auxiliary contact electrical characteristics							
Rated current (125-480 VAC)	22 A						
Rated current (125 VDC)	0.5A						
Rated current (250 VDC)	0.25 A						
Rated horse power up to 250 VAC	½ HP						
Rated horse power up to 480 VAC	1/4 HP						
Recommended wire section for 22A	10 AWG 4 mm²						



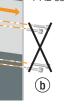
Use the correct protection according to your auxiliary contact circuit and your load



Remove pre-installed auxiliary contact



PH2 screwdriver



Assemble contacts with parts from kit as shown below



Assemble optional aux contact and pre-installed aux contact together



Tightening torque 17.7 lb.in / 2 N.m / PH2



Make sure contact is correctly activated

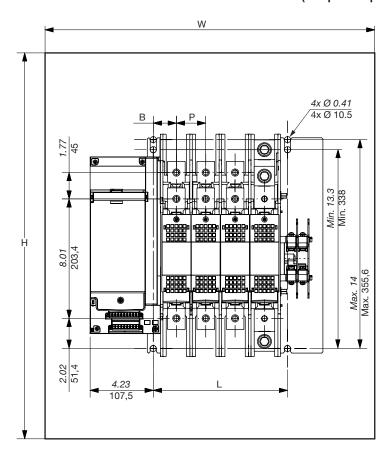


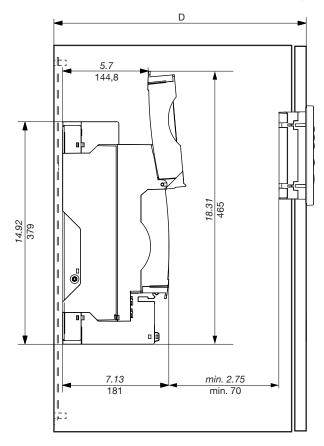
Place the transparent plastic piece to cover the auxiliary contact and lock in place in order to protect from direct contacts.

Ref: 96990021

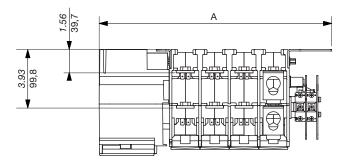
Switch & minimum enclosure size dimensions (4th pole represented with lugs installed)

Dual Dimensions





Switch top view



		Switch dimensions								Minimum enclosure size						
		Α		A B		L		Р		Н		W		D		
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
	2P	10.47	266,30	1.25	31,80	3.85	98,70	1.38	35	20	508	16	406	12	305	
100-200A	2P+N/3P	11.85	301,30	1.25	31,80	5.49	133,70	1.38	35	20	508	16	406	12	305	
	3P+N/4P	13.24	336,30	1.25	31,80	6.60	168,70	1.38	35	20	508	16	406	12	305	
	2P	11.67	296,30	1.55	39,30	5	128,60	1.97	50	48	1220	24	610	12	305	
260-400A	2P+N/3P	13.63	346,30	1.55	39,30	7	178,60	1.97	50	48	1220	24	610	12	305	
	3P+N/4P	15.60	396,30	1.55	39,30	8.97	228,60	1.97	50	48	1220	24	610	12	305	