

ATyS P700

Automatic Transfer Switching Equipment with advanced control, configuration and connectivity

From 800 to 4000A



ATyS P700

The solution for

- > Mission-critical installations
- > Mains/Mains or Mains/Gen applications
- > AMF systems

Strong points

- > Safe and reliable all-in-one ATSE
- > Contacts transfer time <100ms
- > High short-circuit withstand
- > Integrated connectivity for remote monitoring and control

Conformity to standards

- > IEC 60947-6-1
- > GB/T 14048.11
- > BS EN 60947-6-1



Socomec Services

- > Remote commissioning
- > Warranty extension
- > Flex service package
- > Maintenance*

* Subject to geographical restrictions

Sustainability advantages

- > Eco-designed approach
- > Compliant with RoHS, REACH and WEEE regulations
- > Optimized use of recyclable materials
- > Replaceable components to extend product lifetime
- > Environmental declarations available
- > Manufactured in ISO 14001 - certified facilities

Function

ATyS P700 are fully automatic PC-class transfer switches designed to ensure reliable switching between primary and backup power sources. High performance third-party certified according to IEC 60947-6-1, these all-in-one purpose built transfer switches combine high reliability and performance with proven robustness to secure power availability in critical installations. Their extensive configurability and advanced control features enable easy integration even into the most complex power systems. This enables a very high level of safety throughout the whole lifetime of the installation.

Advantages

All-in-one purpose-built design

ATyS P700 is a fully integrated ATSE combining source sensing, interlocking, dual power supply and an advanced controller — all in a single compact unit. This unified architecture eliminates the need for multiple accessories, significantly simplifies wiring and minimises installation error.

High performance to suit any application

ATyS P700 provides:

- High AC-33A switching capability in compliance with IEC 60947-6-1. This allows switching for all type of loads, even the most inductive ones.
- Fast contacts transfer below 100 ms for improved power availability.
- High short-circuit performance: up to 85 kA short-circuit withstand and 187 kA making capacity ensure proper coordination with upstream protection devices.
- EMC Class A compliance: ensures reliable operation without electromagnetic interference with nearby equipment.

Easy commissioning and routine operations

ATyS P700 makes both commissioning and daily operation straightforward thanks to:

- Intuitive configuration wizard: 30 seconds to set essential parameters.
- Color touchscreen display intelligent navigation interface.
- Live data access (e.g. settings, events log) via the Easy Config software
- Dielectric disconnect allowing high voltage tests without damage to sensitive internal components

Integrated connectivity for energy monitoring

ATyS P700 simplifies energy monitoring and integration into complex systems due to:

- Native Modbus RTU and Digiware connectivity for easy integration into supervision and energy management systems
- Scalable PMD architecture, easily extended by adding DIRIS Digiware I-30 current measurement modules and associated current transformers
- Centralised access to measurements via Webview supervision software embedded in M-70 or D-70 Digiware gateways

This architecture provides the essential energy data required to enable efficient monitoring and smarter operational decisions.

High level of safety

Emergency manual on-load operation is an integral part of the ATSE

References

ATyS P700: ATSE I-O-II 800 to 4000A

Rating	Frame	Number of poles	Part Number		Optional modules	Door mounted display	Phase barriers
			380-400 Vac Network	415-440 Vac Network			
800 A	F4	3 P	9244 3081	9244 3080	2 in / 2 out 9225 9001 Fire input 9225 9002	Display D25 9225 9005 2m RJ12 cable 9215 9002	1pc 9295 1400
		4 P	9244 4081	9244 4080			
1000 A	F4	3 P	9244 3101	9244 3100			
		4 P	9244 4101	9244 4100			
1250 A	F4	3 P	9244 3126	9244 3125			
		4 P	9244 4126	9244 4125			
1600 A	F4	3 P	9244 3161	9244 3160			
		4 P	9244 4161	9244 4160			
2000 A	F5	3 P	9245 3201	9245 3200			
		4 P	9245 4201	9245 4200			
2500 A	F5	3 P	9245 3251	9245 3250			
		4 P	9245 4251	9245 4250			
3200 A	F6	3 P	9246 3321	9246 3320			
		4 P	9246 4321	9246 4320			
4000 A	F6	3 P	9246 3401	9246 3400			
		4 P	9246 4401	9246 4400			

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Accessories

Remote display

Function

To display source availability and provide position indication on the front of a panel when the ATyS automatic transfer switch is enclosed. The ATyS D25 remote interface is powered directly from the ATyS transfer switch via the RJ12 connection cable. It displays source availability, TSE position and allows access to the TSE configuration, measurements and history log via the front panel of the cabinet.

- Door mounting 92x92mm.
- Cable not provided.



Description	Suitable for	Part Number
ATyS D25 door display	ATyS P	9225 9005
2m RJ12 cable	ATyS P	9215 9002

Optional plug-in modules

Function

A maximum of four modules can be fitted - mixed or of the same type.

Types of modules:

2 IN / 2 OUT

2 inputs and 2 outputs (programmable) on each module

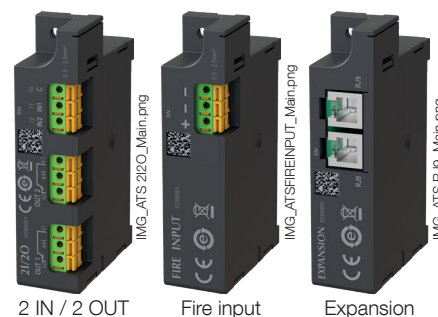
Fire input

24 VDC fixed function input: forces TSE to 0/ OFF position upon activation and maintains this position until the signal remains active.

Expansion

Module allows creation of proprietary network and communication with extended functionality accessories, for example 4 IN / 4 OUT external modules.

Description	Suitable for	Part Number
2 IN / 2 OUT	ATyS P	9225 9001
Fire input	ATyS P	9225 9002
Expansion	ATyS P	9225 9003



Optional remote modules

Function

Remotely placed programmable module with 4 inputs and 4 outputs. Used for:

Genset integrity monitoring: in the event of a broken link with a module, it will start Genset to make the secondary power source available

Genset/Genset applications : one of the outputs can be used as Genstart relay to extend the functionality of the ATSE to Gen/Gen management.

A maximum of two modules can be fitted and supplied from the TSE through the proprietary expansion bus.

- Requires expansion plug-in optional module.

Description	Suitable for	Part Number
4 IN / 4 OUT	ATyS P	9225 9006

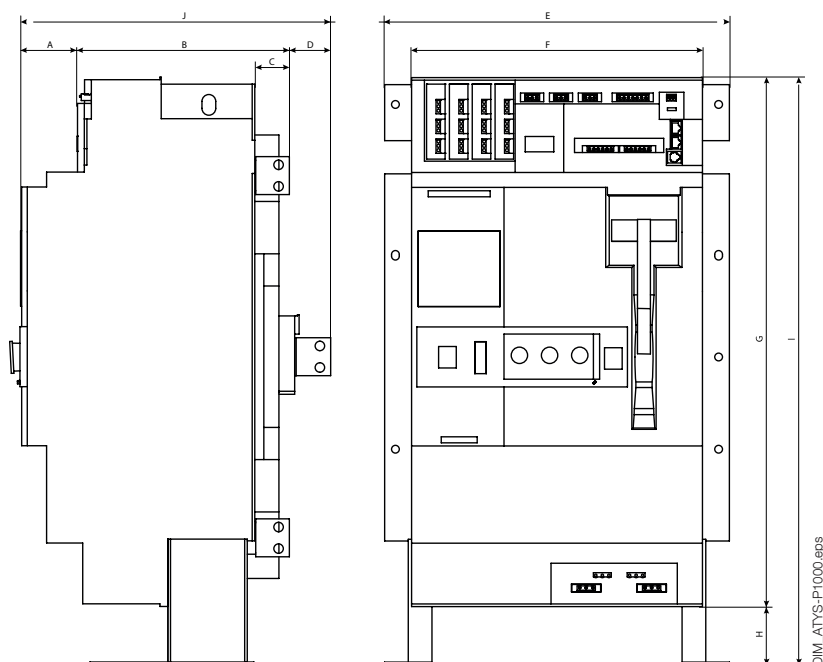


Characteristics

Frame	F4				F5		F6	
Rating, I _n	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
U _i Power circuit (Vac) - Rated insulation voltage	1000	1000	1000	1000	1000	1000	1000	1000
U _i Electronics (VAC) - Rated	500	500	500	500	500	500	500	500
U _{imp} Power circuit (kV) - Rated impulse withband voltage	12	12	12	12	12	12	12	12
U _{imp} Electronic (kVAC) - Rated impulse withband voltage	8	8	8	8	8	8	8	8
Overvoltage category	IV	IV	IV	IV	IV	IV	IV	IV
Pollution degree - Power circuit up to 415 V	PD3	PD3	PD3	PD3	PD3	PD3	PD3	PD3
Pollution degree - Electronics up to 415 V	PD3	PD3	PD3	PD3	PD3	PD3	PD3	PD3
Rated operational current (A)								
AC33 @ 415 V	AC-33B	800	1000	1250	1600	2000	2500	3200
	AC-33A							4000
Short-circuit performance, at 415 VAC								
Rated short-time withstand current I _{ow} 1 s (kA _{rms})	55	55	55	55	66	66	85	85
Rated short-time withstand current I _{ow} 3 s (kA _{rms})	36	36	36	36	66	66	75	75
Rated short-time withstand current I _{cm} (kA)	121	121	121	121	145	145	187	187
Power supply								
Operational frequency for power and electronic (Hz)	45 - 66	45 - 66	45 - 66	45 - 66	45 - 66	45 - 66	45 - 66	45 - 66
Operational voltage for coil and electronic (415-440 Vac)	353 - 495	353 - 495	353 - 495	353 - 495	353 - 495	353 - 495	353 - 495	353 - 495
Operational voltage for coil and electronic (380-400 Vac)	323 - 440	323 - 440	323 - 440	323 - 440	323 - 440	323 - 440	323 - 440	323 - 440
Power monitoring device ⁽¹⁾								
IEC 61557-12 Performance class (-20/+70°C)	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Transfer times								
Contact transfer time (Load interrupting time) (I->II / II->I) w/o controller loop, ms	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Operating transfer time (I->II / II->I) with controller loop, ms	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Mechanical performances								
Electrical endurance : nb. of cycles at I _n	8000	8000	8000	8000	8000	8000	6000	6000
Mechanical durability : nb. of cycles	10 000	10 000	10 000	10 000	10 000	10 000	10 000	10 000
Minimum cable section (mm²), cooper - rigid	2x50x5	2x60x5	2x80x5	2x100x5	3x100x5	2x100x10	4x100x10	5x100x10
Weight netto, kg	55	55	55	55	150	150	180	180

1) ATyS P1000 only

Dimensions (mm)



Mark	F4	F5	F6
A	40	44	44
B	244	363	363
C	78	61	61
D	126	81	81
E	400	538	662
F	339	470	594
G	614	869	869
H	65	10	10
I	679	879	879
J	410	486	486