The *ATyS* range: intuitive, reliable and robust solutions

A complete range of automatic and remotely operated transfer switches from 125 to 3200 A

To meet the increasing demands of its users, the ATyS range is constantly evolving to offer new functions. Five product versions are available to find the right solution perfectly adapted to your application.

RTSE (Remotely operated)	ATSE (Automatic)			
				WEB SERVER OPTION
ATyS r	*ATyS d* Motorised Transfer Switch Equipment	*ATyS t* Automatic Transfer Switch Equipment	*ATyS g* Automatic Transfer Switch Equipment	*ATyS p* Automatic Transfer Switch Equipment
Motorised Transfer Switch Equipment	+ Dual power supply	+ Automatic controller to manage mains/ mains applications	+ Automatic controller to manage mains/ genset applications	+ Functions for energy management Communication options

socomec Innovative Power Solutions

The advantages

Safe operation

- Permanent indication of product availability (Watchdog relay).
- Positive break indication.
- Mechanical position interlocking.
- Padlocked mode to secure maintenance operations (lockout).
- Secure access to the product configuration.

Robust integrated solution

A single product with all the functions:

- Integrated and tested solution: components factory assembled and wired.
- Greater reliability: compliance with IEC 60947-6-1, the standard governing transfer switches.

Proven SOCOMEC technology:

- Combination of two "back-to-back" (load break switch) PC class switches.
- Switching based on stable positions guaranteeing constant pressure on the contacts at all times.
- SIRCO contact technology used in numerous products for over 40 years.

Intuitive use

- Manual emergency control:
  The product can be controlled **quickly and safely** using an emergency handle (motor installed or removed).
- User friendly selection of the operating mode (Auto/Manual) using an integrated selector.

Rapid commissioning

- **ATyS** and **ATyS d**: no configuration required.
- **ATyS t** and **ATyS g**: configuration in just a few minutes using a screwdriver.
- **ATyS p**: simplified configuration (EASY CONFIG software and LCD display on the device).
- **ATyS t, g, p**: auto-configuration of the network parameters.

Easy maintenance

- Self-cleaning sliding contacts.
- Easy replacement of the motor and the electronic unit, even on load.

Improved on load characteristics

IEC 60947-6-1/GB 14048-11

- AC 31B - up to 3200 A
- AC 32B - up to 2000 A
- AC 33B - up to 1250 A

IEC 60947-3

- AC 23B - up to 1250 A

ATyS r - ATyS d

Remotely operated Transfer Switching Equipment

from 125 to 3200 A

The solution for

- Applications with an external ATS/AMF controller
- Building Management Systems (BMS)

Strong points

- Watchdog relay to check product availability
- Integrated auxiliary contacts
- Extended power supply range
- ATyS d: integrated dual power supply

Conformity to standards

- IEC 60947-6-1
- IEC 60947-3

External automatic controller

- The ATyS r and ATyS d are compatible with our ATyS C30 external controllers (for mains/mains and mains/genset applications) and ATyS C40 controllers (for genset/genset applications).

Function

ATyS r and ATyS d are three-phase remotely operated motorised transfer switches, 3 or 4 poles, with positive break indication.

They enable the on load transfer of two three-phase power supplies via remote volt-free contacts, from either an external automatic controller, using pulse logic, or a switch.

They are intended for use in low voltage power systems where interruption of the load supply is acceptable during transfer.

Advantages

Watchdog relay to check product availability

ATyS r and ATyS d products are equipped with a Watchdog relay which constantly monitors your product, thereby securing the installation.

This relay informs in real time the user of the product's availability, i.e. whether it is operational and ready for source switching.

Integrated auxiliary contacts

As part of the product monitoring function, the ATyS r and ATyS d enable the transmission of information relating to their position. This is possible thanks to the standard integration of an auxiliary contact for each position.

Extended power supply range

ATyS r and ATyS d products offer greater availability thanks to their extensive power supply range of 208 to 277 VAC ± 20%.

ATyS d: integrated dual power supply

In addition to the functions offered by the ATyS r, the ATyS d incorporates supply redundancy without the need for additional wiring. This is obtained by integrating a double supply (2 independent power supplies) directly within the product.

References

Rating (A) / Frame size	No. of poles	ATyS r	ATyS d	Bridging bars	Terminal shrouds	Terminal screens	Auxiliary contact	3 position padlocking	Auto transformer
125 A / B3	3 P	9523 **3012**	9533 **3012**	3 P 4109 **3019** 4 P 4109 **4019**	3 P 2694 **3014**(2) 4 P 2694 **4014**(2)	3 P 1509 **3012** 4 P 1509 **4012**	1599 **0002**(4)	9599 **0003**(4)	400/230 VAC 1599 **4064**
	4 P	9523 **4012**	9533 **4012**						
160 A / B3	3 P	9523 **3016**	9533 **3016**						
	4 P	9523 **4016**	9533 **4016**						
200 A / B3	3 P	9523 **3020**	9533 **3020**						
	4 P	9523 **4020**	9533 **4020**						
250 A / B4	3 P	9523 **3025**	9533 **3025**	3 P 4109 **3025** 4 P 4109 **4025**	3 P 2694 **3021**(2) 4 P 2694 **4021**(2)	3 P 1509 **3025** 4 P 1509 **4025**			
	4 P	9523 **4025**	9533 **4025**						
315 A / B4	3 P	9523 **3031**	9533 **3031**	3 P 4109 **3039** 4 P 4109 **4039**					
	4 P	9523 **4031**	9533 **4031**						
400 A / B4	3 P	9523 **3040**	9533 **3040**						
	4 P	9523 **4040**	9533 **4040**						
500 A / B5	3 P	9523 **3050**	9533 **3050**	3 P 4109 **3050** 4 P 4109 **4050**	3 P 2694 **3051**(2) 4 P 2694 **4051**(2)	3 P 1509 **3063**(3) 4 P 1509 **4063**(3)			
	4 P	9523 **4050**	9533 **4050**						
630 A / B5	3 P	9523 **3063**	9533 **3063**	3 P 4109 **3063** 4 P 4109 **4063**					
	4 P	9523 **4063**	9533 **4063**						
800 A / B6	3 P	9523 **3080**	9533 **3080**	3 P 4109 **3080** 4 P 4109 **4080**					
	4 P	9523 **4080**	9533 **4080**						
1000 A / B6	3 P	9523 **3100**	9533 **3100**			3 P 1509 **3080**(3) 4 P 1509 **4080**(3)	1599 **0032**(4)		
	4 P	9523 **4100**	9533 **4100**						
1250 A / B6	3 P	9523 **3120**	9533 **3120**	3 P 4109 **3120** 4 P 4109 **4120**					
	4 P	9523 **4120**	9533 **4120**						
1600 A / B7	3 P	9523 **3160**	9533 **3160**	3 P 4109 **3160** 4 P 4109 **4160**		3 P 1509 **3160**(3) 4 P 1509 **4160**(3)		9599 **0004**(4)	
	4 P	9523 **4160**	9533 **4160**						
2000 A / B8	3 P	9523 **3200**	9533 **3200**	(1)		3 P 1509 **3200**(3) 4 P 1509 **4200**(3)	included		
	4 P	9523 **4200**	9533 **4200**						
2500 A / B8	3 P	9523 **3250**	9533 **3250**						
	4 P	9523 **4250**	9533 **4250**						
3200 A / B8	3 P	9523 **3320**	9533 **3320**						
	4 P	9523 **4320**	9533 **4320**						

(1) See "Copper bar connection kits" page 71.
(2) To fully shroud front, rear, top and bottom 4 references required.
To shroud front switch top and bottom 2 references required.
(3) 2 pieces: one for top side and another for bottom side.
(4) Factory mounting only.

Technical information

> Accessories: see page 70.
> Characteristics: see page 76.
> Terminals and connections: see page 78.
> Dimensions: see page 80.

ATyS t - ATyS g

Automatic Transfer Switching Equipment

from 125 to 3200 A

new

The solution for

- Mains/mains applications (ATyS t)
- Mains/genset applications (ATyS g)

Strong points

- Rapid commissioning
- ATyS d with integrated controller for functions dedicated to mains/mains or mains/genset applications

Conformity to standards

- IEC 60947-6-1
- IEC 60947-3

Function

ATyS t and g are three-phase automatic transfer switches, 3 or 4 poles, with positive break indication. They incorporate all the functions offered by the ATyS d, as well as functions intended for **mains/mains** application (ATyS t) and **mains/genset** applications (ATyS g).

In automatic mode they enable the monitoring of, and the on load changeover switching between, two power supply sources, in accordance with the parameters configured via two potentiometers and four DIP switches.

They are intended for use in low voltage power supply systems where a brief interruption of the load supply is acceptable during transfer.

Advantages

Rapid commissioning

ATyS t and g switches offer significant time saving during commissioning (process takes 2 to 3 minutes). Thanks to the design that allows commissioning through just two potentiometers (4 on the ATyS g) and four DIP switches, a screwdriver is all that is required to configure the parameters.

For added simplicity, they also offer an autoconfiguration function which enables automatic adjustment of the rated voltage and frequency.

ATyS t: specifically designed for mains/ mains applications

The ATyS t integrated controller has been designed to provide only the functions required for these applications (operation with or without priority, preferred source selection) together with the monitoring of the voltage and frequency of both sources, for three-phase and single-phase networks.

ATyS g: specifically designed for mains/ genset applications

The ATyS g integrated controller has been designed to provide specific functions for these applications (genset startup, on-load or off-load tests...) together with the monitoring of the voltage and frequency of both sources for three-phase and single-phase networks.

References

Rating (A) / Frame size	No. of poles	ATyS t	ATyS g	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Terminal screens	Auxiliary contact
125 A / B3	3 P	9543 **3012**	9553 **3012**	3 P 4109 **3019** 4 P 4109 **4019**	3 P 1559 **3012** 4 P 1559 **4013**(1)	3 P 2694 **3014**(3) 4 P 2694 **4014**(3)	3 P 1509 **3012** 4 P 1509 **4012**	1599 **0002**(5)
	4 P	9543 **4012**	9553 **4012**					
160 A / B3	3 P	9543 **3016**	9553 **3016**					
	4 P	9543 **4016**	9553 **4016**					
200 A / B3	3 P	9543 **3020**	9553 **3020**					
	4 P	9543 **4020**	9553 **4020**					
250 A / B4	3 P	9543 **3025**	9553 **3025**	3 P 4109 **3025** 4 P 4109 **4025**	3 P 1559 **3025** 4 P 1559 **4026**(2)	3 P 2694 **3021**(3) 4 P 2694 **4021**(3)	3 P 1509 **3025** 4 P 1509 **4025**	
	4 P	9543 **4025**	9553 **4025**					
315 A / B4	3 P	9543 **3031**	9553 **3031**	3 P 4109 **3039** 4 P 4109 **4039**				
	4 P	9543 **4031**	9553 **4031**					
400 A / B4	3 P	9543 **3040**	9553 **3040**		3 P 1559 **3040** 4 P 1559 **4041**(2)			
	4 P	9543 **4040**	9553 **4040**					
500 A / B5	3 P	9543 **3050**	9553 **3050**	3 P 4109 **3050** 4 P 4109 **4050**	3 P 1559 **3063** 4 P 1559 **4064**(2)	3 P 2694 **3051**(3) 4 P 2694 **4051**(3)	3 P 1509 **3063**(4) 4 P 1509 **4063**(4)	
	4 P	9543 **4050**	9553 **4050**					
630 A / B5	3 P	9543 **3063**	9553 **3063**	3 P 4109 **3063** 4 P 4109 **4063**				
	4 P	9543 **4063**	9553 **4063**					
800 A / B6	3 P	9543 **3080**	9553 **3080**	3 P 4109 **3080** 4 P 4109 **4080**	3 P 1559 **3080** 4 P 1559 **4081**(2)		3 P 1509 **3080**(4) 4 P 1509 **4080**(4)	1599 **0032**(5)
	4 P	9543 **4080**	9553 **4080**					
1000 A / B6	3 P	9543 **3100**	9553 **3100**					
	4 P	9543 **4100**	9553 **4100**					
1250 A / B6	3 P	9543 **3120**	9553 **3120**	3 P 4109 **3120** 4 P 4109 **4120**	3 P 1559 **3120** 4 P 1559 **4121**(2)			
	4 P	9543 **4120**	9553 **4120**					
1600 A / B7	3 P	9543 **3160**	9553 **3160**	3 P 4109 **3160** 4 P 4109 **4160**	3 P 1559 **3160** 4 P 1559 **4161**(2)		3 P 1509 **3160**(4) 4 P 1509 **4160**(4)	
	4 P	9543 **4160**	9553 **4160**					
2000 A / B8	3 P	9543 **3200**	9553 **3200**	(1)	3 P 1559 **3200** 4 P 1559 **4201**(2)		3 P 1509 **3200**(4) 4 P 1509 **4200**(4)	d'origine
	4 P	9543 **4200**	9553 **4200**					
2500 A / B8	3 P	9543 **3250**	9553 **3250**					
	4 P	9543 **4250**	9553 **4250**					
3200 A / B8	3 P	9543 **3320**	9553 **3320**					
	4 P	9543 **4320**	9553 **4320**					

(1) Neutral on the left for neutral on the right, see page 71.
(2) To fully shroud front, rear, top and bottom 4 references required.
To shroud front switch top and bottom 2 references required.
(3) 2 pieces: one for top side and another for bottom side.
(4) Factory mounting only.

Technical information

> Accessories: see page 70.
> Characteristics: see page 76.
> Terminals and connections: see page 78.
> Dimensions: see page 80.

ATyS p

Automatic Transfer Switching Equipment

from 125 to 3200 A

atys-p_001_p

The solution for

> Applications requiring power management and communication.

Strong points

> Optional communication modules
> Recording of events
> Configuration software
> Power measurements
> Possibility to set periodic genset startup

Conformity to standards

> IEC 60947-6-1
> IEC 60947-3

Webserver

The Webserver function comprises HTML pages embedded in the Ethernet communication module.

These pages can be accessed via an internet browser, simply by entering the IP address.

The webserver offers the following functionalities:

> Display of source status and switch position
> Display of the main measurements
> Extraction of the latest logged events
> Display of the product configuration

Function

ATyS p are three-phase automatic transfer switches, 3 or 4 poles, with positive break indication. They incorporate all the functions offered by the ATyS t and g, as well as functions designed for **power management and communication.**

In automatic mode they enable the monitoring of, and the on load changeover switching between, two power supply sources, in accordance with the parameters configured via an LCD display or via the communication.

They are intended for use in low voltage power supply systems where a brief interruption of the load supply is acceptable during transfer.

Advantages

Recording of events

ATyS p switches enable effective monitoring of your installation thanks to timestamped event recording.

Events can be retrieved and read via the communication system.

Optional communication modules

The ATyS p offers communication functions thanks to the addition of optional modules, such as the RS485 module for Modbus communication or the Ethernet module, which includes a Webserver.

Configuration software

Software (Easyconfig) is available enabling the ATyS p parameters to be easily configured and the existing configuration to be saved.

Power measurements

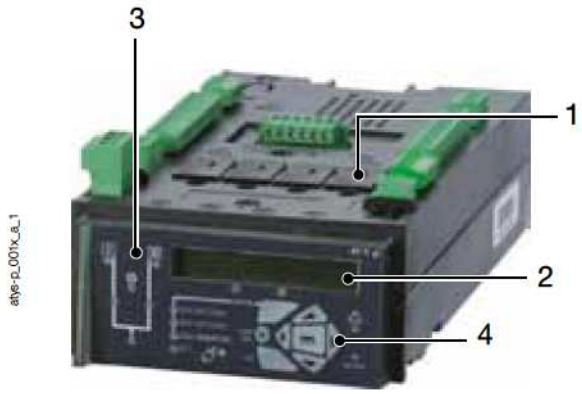
ATyS p products are particularly suited to energy management and monitoring.

In addition to their integrated power and energy measurement functions (with a 2% accuracy level), programmable inputs/outputs can be utilised to control load shedding based on a load level or tariff.

Possibility to set periodic genset startup

ATyS p switches offer additional functions for maintenance. They include the programmed genset starting function which allows the starting dates and operating times to be configured.

Front panel



1. Slots for optional plug-in modules.
2. Backlit LCD display.
3. Source availability and position indication LEDs.
4. Pushbuttons for programming and mode selection.

Communication and configuration

Easyconfig

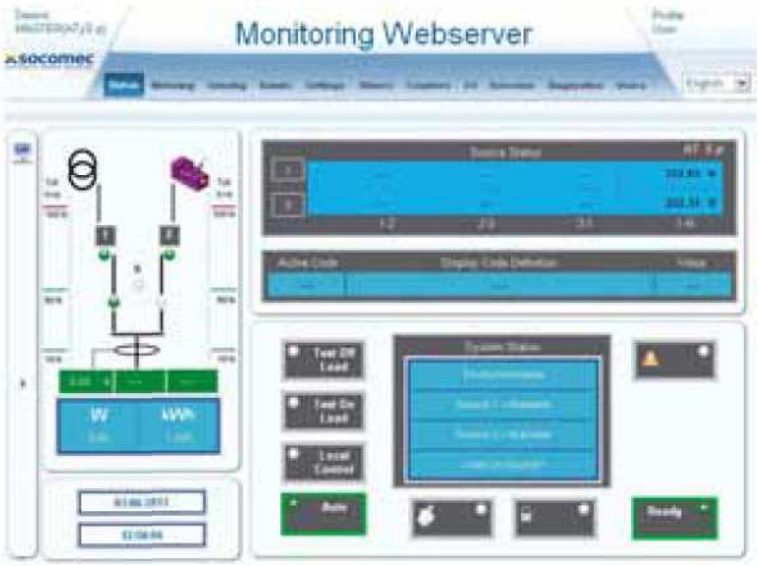
The **Easyconfig software** is the ideal solution to save time and simplify complex configuration.

Typical parameters that can be set:
- the application type,
- voltage/frequency thresholds,
- timers,
- inputs/outputs...

Web Server

Thanks to optional modules, ATyS p can communicate in **Modbus** and **Ethernet** protocols.
The Ethernet communication module includes the **Webserver** function for access to the ATySp via an internet browser.

The Webserver function enables:
- display of source status and switch position,
- display of voltage measurements,
- display of parameters set,
- access to the list of logged events.



References

Rating (A) / Frame size	No. of poles	ATyS p	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Terminal screens	Optional modules	Auxiliary contact
125 A / B3	3 P	9573 **3012**	3 P 4109 **3019** 4 P 4109 **4019**	3 P 1559 **3012** 4 P 1559 **4013**(1)	3 P 2694 **3014**(2) 4 P 2694 **4014**(2)	3 P 1509 **3012** 4 P 1509 **4012**	RS485 MODBUS communication 4825 **0092** 2 inputs / 2 outputs 1599 **2001** Ethernet communication 4825 **0203** Ethernet communication + RS485 MODBUS gateway 4825 **0204** Analogue outputs 4825 **0093** Pulse outputs 4825 **0090**	1599 **0002**(4)
	4 P	9573 **4012**						
160 A / B3	3 P	9573 **3016**						
	4 P	9573 **4016**						
200 A / B3	3 P	9573 **3020**						
	4 P	9573 **4020**						
250 A / B4	3 P	9573 **3025**	4109 **3025**	3 P 1559 **3025** 4 P 1559 **4026**(1)	3 P 2694 **3021**(2) 4 P 2694 **4021**(2)	3 P 1509 **3025** 4 P 1509 **4025**		
	4 P	9573 **4025**	4109 **4025**					
315 A / B4	3 P	9573 **3031**	3 P 4109 **3039** 4 P 4109 **4039**					
	4 P	9573 **4031**						
400 A / B4	3 P	9573 **3040**		3 P 1559 **3040** 4 P 1559 **4041**(1)				
	4 P	9573 **4040**						
500 A / B5	3 P	9573 **3050**	4109 **3050**	3 P 1559 **3063** 4 P 1559 **4064**(1)	3 P 2694 **3051**(2) 4 P 2694 **4051**(2)	3 P 1509 **3063**(3) 4 P 1509 **4063**(3)		
	4 P	9573 **4050**	4109 **4050**					
630 A / B5	3 P	9573 **3063**	4109 **3063**					
	4 P	9573 **4063**	4109 **4063**					
800 A / B6	3 P	9573 **3080**	3 P 4109 **3080** 4 P 4109 **4080**	3 P 1559 **3080** 4 P 1559 **4081**(1)		3 P 1509 **3080**(3) 4 P 1509 **4080**(3)		1599 **0032**(4)
	4 P	9573 **4080**						
1000 A / B6	3 P	9573 **3100**						
	4 P	9573 **4100**						
1250 A / B6	3 P	9573 **3120**	4109 **3120**	3 P 1559 **3120** 4 P 1559 **4121**(1)				
	4 P	9573 **4120**	4109 **4120**					
1600 A / B7	3 P	9573 **3160**	4109 **3160**	3 P 1559 **3160** 4 P 1559 **4161**(1)		1509 **3160**(3) 1509 **4160**(3)		
	4 P	9573 **4160**	4109 **4160**					
2000 A / B8	3 P	9573 **3200**	(1)	3 P 1559 **3200** 4 P 1559 **4201**(1)		3 P 1509 **3200**(3) 4 P 1509 **4200**(3)		included
	4 P	9573 **4200**						
2500 A / B8	3 P	9573 **3250**						
	4 P	9573 **4250**						
3200 A / B8	3 P	9573 **3320**						
	4 P	9573 **4320**						

(1) Neutral on the left (for neutral on the right, see page 72).
(2) To fully shroud front, rear, top and bottom 4 references required.
To shroud front switch top and bottom 2 references required.
(3) 2 pieces: one for top side and another for bottom side.
(4) Factory mounting only.

Rating (A) / Frame size	No. of poles	ATyS p[2]	DC power supply	3 position padlocking	Key handle interlocking system	Door protective surround	Mounting spacers	Remote control interface
125 A / B3	3 P	9573 **3012**	12 VDC / 230 VAC 1599 **5012** 24 VDC / 230 VAC 1599 **5112**	9599 **0003**[1]	Using lock RONIS EL11AP in position 0 9599 **1006**[1]	1539 **0012**	1 set of 2 spacers 1509 **0001**	ATyS D20 9599 **2020** + RJ45 cable connection 1599 **2009**
	4 P	9573 **4012**						
160 A / B3	3 P	9573 **3016**						
	4 P	9573 **4016**						
200 A / B3	3 P	9573 **3020**						
	4 P	9573 **4020**						
250 A / B4	3 P	9573 **3025**						
	4 P	9573 **4025**						
315 A / B4	3 P	9573 **3031**						
	4 P	9573 **4031**						
400 A / B4	3 P	9573 **3040**						
	4 P	9573 **4040**						
500 A / B5	3 P	9573 **3050**						
	4 P	9573 **4050**						
630 A / B5	3 P	9573 **3063**						
	4 P	9573 **4063**						
800 A / B6	3 P	9573 **3080**		9599 **0004**[1]	Using lock RONIS EL11AP in position 0 9599 **1004**[1]	1539 **0080**		
	4 P	9573 **4080**						
1000 A / B6	3 P	9573 **3100**						
	4 P	9573 **4100**						
1250 A / B6	3 P	9573 **3120**						
	4 P	9573 **4120**						
1600 A / B7	3 P	9573 **3160**						
	4 P	9573 **4160**						
2000 A / B8	3 P	9573 **3200**						
	4 P	9573 **4200**						
2500 A / B8	3 P	9573 **3250**						
	4 P	9573 **4250**						
3200 A / B8	3 P	9573 **3320**						
	4 P	9573 **4320**						

(1) Factory mounting only.

ATyS range

ATyS r, ATyS d, ATyS t, ATyS g, ATyS p

from 125 to 3200 A

Accessories

Terminal shrouds

Use

IP2X protection against direct contact with terminals or connecting parts.

Advantages

Perforations allow remote thermographic inspection without the need to remove the shrouds.

Rating (A)	Frame size	No. of poles	Position	Reference
125 ... 200	B3	3 P	top / bottom / front (I) / rear (II)	2694 **3014**(1)(2)
125 ... 200	B3	4 P	top / bottom / front (I) / rear (II)	2694 **4014**(1)(2)
250 ... 400	B4	3 P	top / bottom / front (I) / rear (II)	2694 **3021**(1)(2)
250 ... 400	B4	4 P	top / bottom / front (I) / rear (II)	2694 **4021**(1)(2)
500 ... 630	B5	3 P	top / bottom / front (I) / rear (II)	2694 **3051**(1)(2)
500 ... 630	B5	4 P	top / bottom / front (I) / rear (II)	2694 **4051**(1)(2)

(1) To shroud front switch top and bottom 2 references required.
(2) To fully shroud front, rear, top and bottom 4 references required.

acces_206_a_2_cat

Terminal screens

Use

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

For upstream and downstream protection, order the reference once.

Rating (A)	Frame size	No. of poles	Position	Reference
125 ... 200	B3	3 P	top / bottom	1509 **3012**
125 ... 200	B3	4 P	top / bottom	1509 **4012**
250 ... 400	B4	3 P	top / bottom	1509 **3025**
250 ... 400	B4	4 P	top / bottom	1509 **4025**
500 ... 630	B5	3 P	top / bottom	1509 **3063**
500 ... 630	B5	4 P	top / bottom	1509 **4063**
800 ... 1250	B6	3 P	top / bottom	1509 **3080**
800 ... 1250	B6	4 P	top / bottom	1509 **4080**
1600	B7	3 P	top / bottom	1509 **3160**
1600	B7	4 P	top / bottom	1509 **4160**
2000 ... 3200	B8	3 P	top / bottom	1509 **3200**
2000 ... 3200	B8	4 P	top / bottom	1509 **4200**

acces_207_a_2_cat

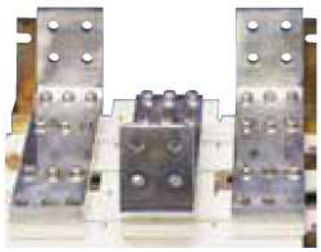
Bridging bars

Use

For bridging power terminals on the top or bottom side of the switch.
One piece required per pole.

Rating (A)	Frame size	No. of poles	Section (mm)	Reference
125 ... 200	B3	3 P	20 x 2.5	4109 **3019**
125 ... 200	B3	4 P	20 x 2.5	4109 **4019**
250	B4	3 P	25 x 2.5	4109 **3025**
250	B4	4 P	25 x 2.5	4109 **4025**
315 ... 400	B4	3 P	32 x 5	4109 **3039**
315 ... 400	B4	4 P	32 x 5	4109 **4039**
500	B5	3 P	32 x 5	4109 **3050**
500	B5	4 P	32 x 5	4109 **4050**
630	B5	3 P	50 x 5	4109 **3063**
630	B5	4 P	50 x 5	4109 **4063**
800 ... 1000	B6	3 P	50 x 6	4109 **3080**
800 ... 1000	B6	4 P	50 x 6	4109 **4080**
1250	B6	3 P	60 x 8	4109 **3120**
1250	B6	4 P	60 x 8	4109 **4120**
1600	B7	3 P	90 x 10	4109 **3160**
1600	B7	4 P	90 x 10	4109 **4160**

acces_205_a_2_cat



acces_041_a_1_cat

socomec Innovative Power Solutions

Copper bar connection kits

Use

Enables:

- connection between the two power terminals of the same pole for 2000 to 3200 A ratings (Fig. 1 and Fig. 2)
- top or bottom bridging connection (Fig. 3). For 3200 A rating, the connection pieces (part A) are delivered bridged from factory.

Bolt sets must be ordered separately. The user manual for these specific accessories can be downloaded from www.socomec.com.

Top or bottom flat connection - Fig. 1

Rating (A)	Frame size	Piece	Quantity to order per pole(1)	Reference
2000 ... 2500	B8	Connection - part A	2	2619 **1200**
2000 ... 2500	B8	Bolt set - part B	2	2699 **1200**
3200	B8	Connection - part A		included
3200	B8	Bolt set - part B	2	2699 **1200**

Top or bottom edgewise connection - Fig. 2

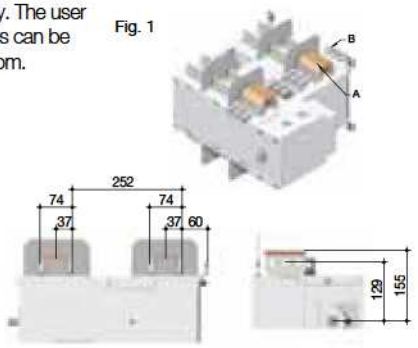
Rating (A)	Frame size	Piece	Quantity to order per pole(1)	Reference
2000 ... 2500	B8	Connection - part A	2	2619 **1200**
2000 ... 2500	B8	T piece - part C	2	2629 **1200**(2)
2000 ... 2500	B8	Bracket- part D	2	2639 **1200**(2)
3200	B8	Connection - part A		included
3200	B8	T piece - part C	2	2629 **1200**(2)
3200	B8	Bracket- part D	2	2639 **1200**(2)

Top or bottom bridging connection - Fig. 3

Rating (A)	Frame size	Piece	Quantity to order per pole(1)	Reference
2000 ... 2500	B8	Connection - part A	2	2619 **1200**
2000 ... 2500	B8	Bolt set - part B	2	2699 **1200**
2000 ... 2500	B8	Bar - part E	1	4109 **0320**(2)
2000 ... 2500	B8	T piece - part C	1	2629 **1200**(2)
3200	B8	Connection - part A		included
3200	B8	Bolt set - part B	2	2699 **1200**
3200	B8	Bar - part E	1	4109 **0320**(2)
3200	B8	T piece - part C	1	2629 **1200**(2)

(1) Example for 3 pole device equipped upstream only: Order 3 times the indicated quantities.
(2) Bolt set is provided with the accessories.

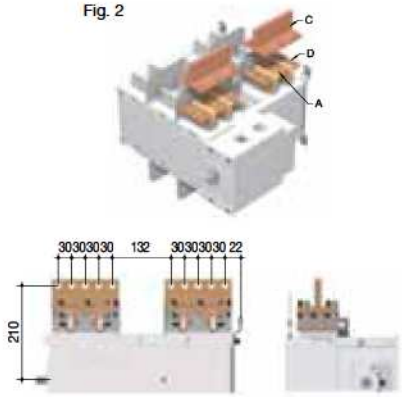
Fig. 1



acces_226_b_1_x_cat

acces_232_a_1_cat

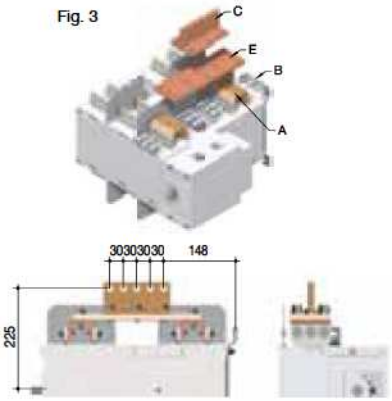
Fig. 2



acces_228_b_1_x_cat

acces_233_a_1_cat

Fig. 3



acces_230_b_1_x_cat

acces_234_a_1_cat

Solid neutral

Use

The connection kit enables the connection between the input and output neutrals, without any need to switch the neutral.

Rating (A)	Frame size	Reference
125 ... 200	B3	9509 **0012**
200 ... 315	B4	9509 **0025**
400	B4	9509 **0040**
500 ... 630	B5	9509 **0063**
800 ... 1000	B6	9509 **0080**
1250	B6	9509 **0120**
1600	B7	9509 **0160**

Accessories (continued)

Autotransformer 400/230 VAC

Use
For applications without neutral, this autotransformer provides the 230 VAC required to power these ATyS products.

Rating (A)	Frame size	Reference
125 ... 3200	B3 ... B8	1599 **4064**

DC power supply

Use
Allows an ATyS to be supplied from a 12 or 24 VDC source.
To be positioned as close as possible to the DC power supply source.

Rating (A)	Frame size	Operating voltage	Reference
125 ... 3200	B3 ... B8	12 VDC / 230 VAC	1599 **5012**
125 ... 3200	B3 ... B8	24 VDC / 230 VAC	1599 **5112**

Voltage sensing and power supply kit

Use
For power supply and voltage measurement (4 wire, three-phase) for the ATyS t, g and p.
Routing of the conductors is controlled, which means that no specific protective device is necessary for these connections.

The kit can be fitted on the top or bottom of the switch.

Note: the 3-pole version does not integrate the power supply.

From 125 to 630 A

atys_606_a_1_cat

From 800 to 3200 A

atys_603_a_2_cat

For ATyS t, g and p - 3 poles

Rating (A)	Frame size	Reference
125 ... 200	B3	1559 **3012**
250	B4	1559 **3025**
315 ... 400	B4	1559 **3040**
500 ... 630	B5	1559 **3063**
800 ... 1000	B6	1559 **3080**
1250	B6	1559 **3120**
1600	B7	1559 **3160**
2000 ... 3200	B8	1559 **3200**

For ATyS t, g and p - 4 poles

Rating (A)	Frame size	Neutral on the right Reference	Neutral on the left Reference
125 ... 200	B3	1559 **4012**	1559 **4013**
250	B4	1559 **4025**	1559 **4026**
315 ... 400	B4	1559 **4040**	1559 **4041**
500 ... 630	B5	1559 **4063**	1559 **4064**
800 ... 1000	B6	1559 **4080**	1559 **4081**
1250	B6	1559 **4120**	1559 **4121**
1600	B7	1559 **4160**	1559 **4161**
2000 ... 3200	B8	1559 **4200**	1559 **4201**

Voltage relay

Use
The ATyS DS is a voltage relay for monitoring a single three-phase power supply source

Rating (A)	Reference
DS	192X **0056**

atys_762_a_1_cat

Door protective surround

Use

When direct access to the ATyS front face (mode selection, manual operation, display....) is required, the door surround can be utilised to provide a clean and safe finish to the panel's cut-out.

For ATyS

Rating (A)	Frame size	Reference
125 ... 630	B3 ... B5	1529 **0012**
800 ... 3200	B6 ... B8	1529 **0080**

For ATyS d, t, g and p

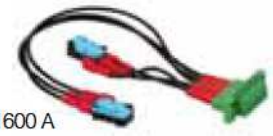
Rating (A)	Frame size	Reference
125 ... 630	B3 ... B5	1539 **0012**
800 ... 3200	B6 ... B8	1539 **0080**

Auxiliary contact

Use

Pre breaking and signalling of positions I and II: each reference provides a single factory fitted NO/NC contact for both positions.

Low level auxiliary contacts: please consult us. 1 NO/NC contact per position is factory fitted.



800 to 1600 A

Rating (A)	Frame size	Nominal current (A)	Operating current I_e (A) 250 VAC AC-13	400 VAC AC-13	24 VDC DC-13	48 VDC DC-13
125 ... 3200	B3 ... B8	16	12	8	14	6

If additional auxiliary contacts are required please consult us.

125 to 630 A

Rating (A)	Frame size	Type of mounting	Reference
125 ... 630	B3 ... B5	Customer fit	1599 **0502**(1)
125 ... 630	B3 ... B5	Factory fitted	1599 **0002**(1)
800 ... 1600	B6 ... B7	Customer fit	1599 **0532**(1)
800 ... 1600	B6 ... B7	Factory fitted	1599 **0032**(1)
2000 ... 3200	B8	-	included

(1) Up to 2 auxiliary contacts can be ordered.

Mounting spacers

Use

Increases the distance between the rear power terminals and the backplate by 1 cm per spacer.

This accessory may also be used to replace the original mounting spacers.

Rating (A)	Frame size	Description of accessories	Reference
125 ... 630	B3 ... B5	1 set of 2 spacers	1509 **0001**

3 position padlocking (I - 0 - II)

Use

Enables the ATyS to be padlocked in the 3 positions 0, I and II (factory fitted).

Rating (A)	Frame size	Reference
125 ... 630	B3 ... B5	9599 **0003**
800 ... 3200	B6 ... B8	9599 **0004**

Key handle interlocking system

Use

With the product in manual mode, it enables locking in position 0 using a RONIS EL11AP lock (factory fitted).

As standard, locking in position 0.
Optional padlocking in 3 positions: locking in position I, 0 or II.

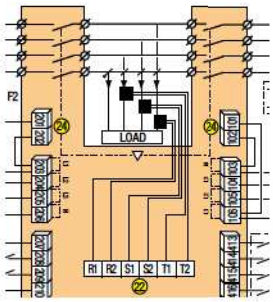
Rating (A)	Frame size	Reference
125 ... 630	B3 ... B5	9599 **1006**
800 ... 3200	B6 ... B8	9599 **1004**

Accessories (continued)

Current transformers

Use - For ATyS p only
Used with ATyS p switches, current transformers enable information to be obtained on the load current.

Reference
Please see our general catalogue or our website www.socomec.com




trafo_025_a_2_cat


trafo_077_b_1_cat

Plug-in optional modules

Use - For ATyS p only
Number of usable modules per product:
A maximum of four modules can be fitted to each ATyS p, however with the installation of either Ethernet communication module only two additional modules can be installed. Only one pulse output, one analogue output and one communication module can be installed.


atys_016_c_1_cat


dms_447_a_1_cat

RS485 MODBUS® communication
- RS485 link with MODBUS® protocol (speed up to 38400 bauds).


dms_449_a_1_cat

2 inputs - 2 outputs
- Each module has 2 programmable inputs and 2 programmable outputs available.


dms_777_a_1_cat

Ethernet communication
- Ethernet link with MODBUS/TCP or MODBUS RTU over TCP.
- Embedded Ethernet Webserver software.


dms_776_a_1_cat

Ethernet communication with RS485 MODBUS gateway
- Ethernet link with MODBUS/TCP or MODBUS RTU over TCP.
- Connection of 1 to 247 RS485 MODBUS slaves.
- Embedded Ethernet Webserver software.


dms_448_a_1_cat

Analogue outputs
- Outputs assignable to: 3I, In, 3V, 3U, F, ± ΣP, ± ΣQ, ΣS.


dms_445_a_1_cat

Pulse outputs
- 2 configurable pulse outputs (type, weight and duration) on ± kWh, ±kvarh and kVAh.

Description of accessories	Reference
RS485 MODBUS communication	4825 **0092**
2 inputs / 2 outputs	1599 **2001**
Ethernet communication (embedded Ethernet webserver software)	4825 **0203**
Ethernet communication + RS485 MODBUS gateway (embedded Ethernet webserver software)	4825 **0204**
Analogue outputs	4825 **0093**
Pulse outputs	4825 **0090**

Remote interfaces

Use

To remotely display source availability and position indication typically used on the front of a panel when the product is enclosed.

Interfaces are powered from the ATyS transfer switch via the RJ45 connection cable.

Maximum cable length: 3 m.

D10 - for ATyS d, t and g

To display source availability and position indication on the front panel of an enclosure. Protection degree: IP21.

D20 - for ATyS p

In addition to the functions of the ATyS D10, the D20 displays measurements and enables control and configuration from the front of a panel.

Protection degree: IP21.

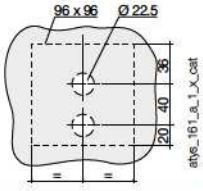
Door mounting

2 holes Ø 22.5. ATyS transfer switch connection via RJ45 cable, not isolated.

Cable available as an accessory.

Interfaces are powered from the ATyS

Drillings



Description of accessories	Reference
D10	9599 **2010**
D20	9599 **2020**

Connection cable for remote interfaces

Use

To connect between a remote interface (type D10 or D20) and an ATyS transfer switch (ATyS d, t, g or p).

RJ45 8 wire straight-through, non isolated cable. Length 3m.

Characteristics

For ATyS d, t, g and p		
Type	**Length**	**Reference**
RJ45 cable	3 m	1599 **2009**

Sealable cover

Use - for ATyS t and g

Prevents access to the ATyS t and g configuration potentiometers and DIP switches (seals supplied).

Rating (A)	Frame size	Reference
125 ... 3200	B3 ... B8	9599 **0000**

Auto/Manual key selector

Use

Replaces the standard Auto/Manual selector knob with a key selector, providing added security by preventing unauthorised use of product.

Rating (A)	Frame size	Reference
125 ... 3200	B3 ... B8	9599 **1007**

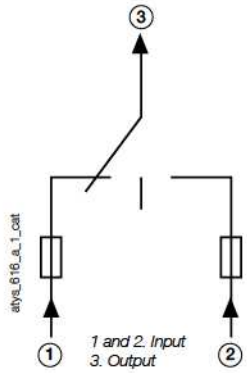
Double power supply - DPS

Use

Allows an ATyS r to be supplied by two 230 VAC, 50/60 Hz networks.

Input

- The input is considered “active” from 200 VAC.
- Maximum voltage: 288 VAC.
- Internal protection: each input is fuse protected 3.15 A.
- Connection on terminals: max. 6 mm^2.
- Modular device: 4 module width.



Description of accessories	Reference
DPS	1599 **4001**

Spare parts

Electronic module

The electronic module of ATyS d, t, g and p can be easily replaced in case of problems, even when the load is supplied.

Product model	References
ATyS d	9539 **2001**
ATyS t	9549 **2001**
ATyS g	9559 **2001**
ATyS p	9579 **2001**

Motorisation module

The motorisation module of ATyS r, d, t, g and p can be easily replaced in case of problems, even when the load is supplied.

Rating	References
125 ... 200 A	9509 **5020**
250 ... 400 A	9509 **5040**
500 ... 630 A	9509 **5063**
800 ... 1250 A	9509 **5120**
1600 A	9509 **5160**
2000 ... 3200 A	9509 **5320**

Switching module

References to be used for replacing the switching module of ATyS r, d, t, g or p, correspond to the SIRCOVER AC references. Please refer to page 16.

Enclosed transfer switch solution

General characteristics

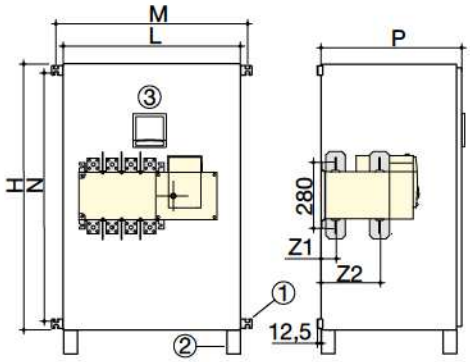
ATyS d and ATyS p

- Adapted to mechanical risk and dust hazard.
- Protection degree: IP54.
- Colour: RAL 7035.
- Connection of cables: top and bottom up to 250 A - bottom connections only for upper ratings.
- The auxiliary contacts are wired to a terminal block.
- Material: XC steel, thickness 2 mm.
- Coating: polyester epoxy paint.
- Wall mounting: 4 fixing lugs supplied loose ≤ 400 A, floor standing feet > 630 A.
- Door: solid with hinges.
- Locking system: 3 mm double bar key (included).

Rating (A)	No. of poles	ATyS d	ATyS p
125	4 P	1723 **4012**	1763 **4012**
160	4 P	1723 **4016**	1763 **4016**
250	4 P	1723 **4025**	1763 **4025**
400	4 P	1723 **4040**	1763 **4040**
630	4 P	1723 **4063**	1763 **4063**
800	4 P	1723 **4080**	1763 **4080**
1000	4 P	1723 **4100**	1763 **4100**
1250	4 P	1723 **4120**	1763 **4120**
1600	4 P	1723 **4160**	1763 **4160**
2000	4 P	1723 **4200**	1763 **4200**
2500	4 P	1723 **4250**	1763 **4250**
3200	4 P	1723 **4320**	1763 **4250**

coff_306_b_1

Dimensions



atys_821_c_1_fr_cat

(1) Wall mounting brackets supplied up to 400 A.
(2) Floor standing feet from 630 A (add 200 mm to the H dimensions for feet).
(3) Interfaces D10 or D20 (optional).

Rating (A)	Recommended cable cross-section (mm²)	H (mm)	L (mm)	P (mm)	M (mm)	N (mm)	Z1 (mm)	Z2 (mm)	Weight (kg)
125	50	650	400	300	448	608	38	134	25
160	70	650	400	300	448	608	38	134	25
250	120	1000	650	475	698	958	39.5	134.5	45
400	240	1000	650	475	698	958	39.5	134.5	50
630	2 x 185	1000	650	475			53	190	70
800	2 x 240	1200	800	660			66.5	253.5	135
1000	4 x 150	1200	800	660			66.5	253.5	140
1250	4 x 185	1600	1000	830			66.5	253.5	270
1600	4 x 240	1600	1000	830			67.5	253.5	375
2000	8 x 150	2000	1000	1000					400
2500	8 x 185	2000	1000	1000					400
3200	8 x 240	2000	1000	1000					400

Characteristics according to IEC 60947-3 and IEC 60947-6-1

125 to 630 A / B3 to B5

Thermal current I_{th} at 40°C		**125 A**	**160 A**	**200 A**	**250 A**	**315 A**	**400 A**	**500 A**	**630 A**
Frame size		B3	B3	B3	B4	B4	B4	B5	B5
Rated insulation voltage U_i (V) (power circuit)		800	800	800	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV) (power circuit)		8	8	8	12	12	12	12	12
Rated insulation voltage U_i (V) (operation circuit)		300	300	300	300	300	300	300	300
Rated impulse withstand voltage U_{imp} (kV) (operation circuit)		4	4	4	4	4	4	4	4
Rated operational currents I_e (A) according to IEC 60947-6-1									
Rated voltage	**Utilisation category**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**
415 VAC	AC-31 B	125	160	200	250	315	400	500	630
415 VAC	AC-32 B				200	315	400	500	500
415 VAC	AC-33 B				200	200	200	400	400
Rated operational currents I_e (A) according to IEC 60947-3									
Rated voltage	**Utilisation category**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**
415 VAC	AC-20 A / AC-20 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
415 VAC	AC-21 A / AC-21 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
415 VAC	AC-22 A / AC-22 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
415 VAC	AC-23 A / AC-23 B	125/125	160/160	200/200	200/200	315/315	400/400	500/500	630/630
500 VAC	AC-20 A / AC-20 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
500 VAC	AC-21 A / AC-21 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
500 VAC	AC-22 A / AC-22 B	125/125	160/160	200/200	200/250	200/315	200/400	500/500	500/500
500 VAC	AC-23 A / AC-23 B	80/80	80/80	80/80	200/200	200/200	200/200	400/400	400/400
690 VAC	AC-20 A / AC-20 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
690 VAC	AC-21 A / AC-21 B	125/125	160/160	200/200	200/200	200/200	200/200	500/500	500/500
690 VAC	AC-22 A / AC-22 B	125/125	125/125	125/125	160/160	160/160	160/160	400/400	400/400
690 VAC	AC-23 A / AC-23 B	63/80	63/80	63/80	125/125	125/125	125/125	400/400	400/400
220 VDC(2)	DC-20 A / DC-20 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
220 VDC(2)	DC-21 A / DC-21 B	125/125	160/160	200/200	250/250	250/250	250/250	500/500	630/630
220 VDC(2)	DC-22 A / DC-22 B	125/125	160/160	200/200	250/250	250/250	250/250	500/500	630/630
220 VDC(2)	DC-23 A / DC-23 B	125/125	125/125	125/125	200/200	200/200	200/200	500/500	630/630
440 VDC(2)	DC-20 A / DC-20 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
440 VDC(2)	DC-21 A / DC-21 B	125/125	125/125	125/125	200/200	200/200	200/200	500/500	630/630
440 VDC(2)	DC-22 A / DC-22 B	125/125	125/125	125/125	200/200	200/200	200/200	500/500	630/630
440 VDC(2)	DC-23 A / DC-23 B	125/125	125/125	125/125	200/200	200/200	200/200	500/500	630/630
Fuse protected short-circuit withstand as per IEC 60947-3 at 690 VAC									
Prospective short-circuit current (kA rms)		100(3)	100(3)	50(3)	50	50	50	50	50
Associated fuse rating (A)		125	160	200	250	315	400	500	630
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s(4)									
Rated short-time withstand current 0.3s I_{cw} (kA rms)		12(3)	12(3)	12(3)	15	15	15	17	17
Rated short-circuit withstand without protection									
Rated short-time withstand current 60ms I_{cw} (kA rms) as per IEC 60947-6-1 at 415 VAC					10(5)	10(5)	10(5)	10	12.6
Rated short-time withstand current 1ms I_{cw} (kA rms) as per IEC 60947-3 at 690 VAC		7(3)	7(3)	7(3)	8	8	8	10	10
Rated peak withstand current (kA peak) as per IEC 60947-3 at 690 VAC		20	20	20	30	30	30	45	45
Connection									
Maximum Cu cable cross-section (mm²)		35	50	70	95	150	185	240	2 x 150
Minimum Cu busbar cross-section (mm²)									2 x 30 x 5
Maximum Cu cable cross-section (mm²)		50	95	120	150	240	240	2 x 185	2 x 300
Maximum Cu busbar width (mm)		25	25	25	32	32	32	50	50
Tightening torque mini / maxi (Nm)		9/13	9/13	9/13	20/26	20/26	20/26	20/26	20/26
Switching time (Standard setting)									
I - II or II - I (s)		0.75	0.75	0.75	1.3	1.3	1.3	1.3	1.3
I-0 or 0-II (s)		0.45	0.45	0.45	0.85	0.85	0.85	0.85	0.85
Duration of "electrical blackout" I - II (s)		0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
Power supply									
min / max (VAC)		166/332	166/332	166/332	166/332	166/332	166/332	166/332	166/332
Control supply power demand									
Power supply 230 VAC inrush / nominal (VA) - ATyS		184/92	184/92	184/92	276/115	276/115	276/115	276/150	276/150
Power supply 230 VAC inrush / nominal (VA) - ATyS d, t, g, p		206/114	206/114	206/114	298/137	298/137	298/137	298/172	298/172
Mechanical characteristics									
Durability (number of operating cycles)		10 000	10 000	10 000	8 000	8 000	8 000	5 000	5 000
Weight ATyS 3/4 P (kg)		5.7 / 6.9	5.7 / 6.9	5.7 / 6.9	6.6 / 7.4	6.7 / 7.8	6.7 / 7.8	11.4 / 13.3	11.9 / 14.0
Weight ATyS d 3/4 P (kg)		6.3 / 7.5	6.3 / 7.5	6.3 / 7.5	7.2 / 8.0	7.3 / 8.4	7.3 / 8.4	12.0 / 13.9	12.5 / 14.6
Weight ATyS r, t, g, p 3/4 P (kg)		6.8 / 8.0	6.8 / 8.0	6.8 / 8.0	7.7 / 8.5	7.8 / 8.9	7.8 / 8.9	12.5 / 14.4	13.0 / 15.1

(1) Category with index A = frequent operation - Category with index B = infrequent operation.

(2) 3-pole device with 2 pole in series for the "+" and 1 pole for the "-". 4-pole device with 2 poles in series by polarity.

(3) At 415 VAC.

(6) Value for coordination with any circuit-breaker that ensures tripping in less than 0.3s.

For coordination with specific circuit-breaker references, higher short-circuit current values are available. Please consult us.

(5) At 30ms.

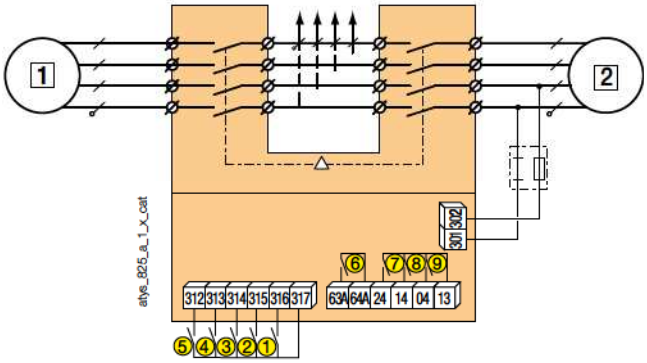
800 to 3200 A / B6 to B8

Thermal current I_{th} at 40°C		**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**
Frame size		B6	B6	B6	B7	B8	B8	B8
Rated insulation voltage U_i (V) (power circuit)		1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV) (power circuit)		12	12	12	12	12	12	12
Rated insulation voltage U_i (V) (operation circuit)		300	300	300	300	300	300	300
Rated impulse withstand voltage U_{imp} (kV) (operation circuit)		4	4	4	4	4	4	4
Rated operational currents I_e (A) according to IEC 60947-6-1								
Rated voltage	**Utilisation category**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**
415 VAC	AC-31 B	800	1000	1250	1600	2000	2500	3200
415 VAC	AC-32 B	800	1000	1250	1600	2000	2000	2000
415 VAC	AC-33 B	800	800	800	1000	1250	1250	1250
Rated operational currents I_e (A) according to IEC 60947-3								
Rated voltage	**Utilisation category**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**	**A/B[1]**
415 VAC	AC-20 A / AC-20 B	800/800	1000/1000	1250/1250	1600/1600	2000/2000	2500/2500	3200/3200
415 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2500	-/3200
415 VAC	AC-22 A / AC-22 B	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2500	-/3200
415 VAC	AC-23 A / AC-23 B	800/800	1000/1000	1250/1250	1250/1250	-/1600	-/1600	-/1600
500 VAC	AC-20 A / AC-20 B	800/800	1000/1000	1250/1250	1600/1600	2000/2000	2500/2500	3200/3200
500 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2500	-/3200
500 VAC	AC-22 A / AC-22 B	630/630	800/800	1000/1000	1600/1600			
500 VAC	AC-23 A / AC-23 B	400/400	630/630	800/800	1000/1000			
690 VAC	AC-20 A / AC-20 B	800/800	1000/1000	1250/1250	1600/1600	2000/2000	2500/2500	3200/3200
690 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2500	-/3200
690 VAC	AC-22 A / AC-22 B	630/630	800/800	1000/1000	1000/1000			
690 VAC	AC-23 A / AC-23 B	400/400	630/630	800/800	800/800			
220 VDC[2]	DC-20 A / DC-20 B	800/800	1000/1000	1250/1250	1600/1600			
220 VDC[2]	DC-21 A / DC-21 B	800/800	1000/1000	1250/1250	1250/1250			
220 VDC[2]	DC-22 A / DC-22 B	800/800	1000/1000	1250/1250	1250/1250			
220 VDC[2]	DC-23 A / DC-23 B	800/800	1000/1000	1250/1250	1250/1250			
440 VDC[2]	DC-20 A / DC-20 B	800/800	1000/1000	1250/1250	1600/1600			
440 VDC[2]	DC-21 A / DC-21 B	800/800	1000/1000	1250/1250	1250/1250			
440 VDC[2]	DC-22 A / DC-22 B	800/800	1000/1000	1250/1250	1250/1250			
440 VDC[2]	DC-23 A / DC-23 B	800/800	1000/1000	1250/1250	1250/1250			
Fuse protected short-circuit withstand as per IEC 60947-3 at 415 VAC								
Prospective short-circuit current (kA rms)		50	100	100	100			
Associated fuse rating (A)		800	1000	1250	2x800			
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s[3]								
Rated short-time withstand current 0.3s I_{cw} (kA rms)		47	64	64	78	78	78	78
Rated short-circuit withstand without protection								
Rated short-time withstand current 60ms I_{cw} (kA rms) as per IEC 60947-6-1 at 415 VAC		16	20	25	32	40	50	50
Rated short-time withstand current 1ms I_{cw} (kA rms) as per IEC 60947-3 at 415 VAC		26	35	35	50	50	50	50
Rated peak withstand current (kA peak) as per IEC 60947-3 at 415 VAC		55	55	80	110	120	120	120
Connection								
Maximum Cu cable cross-section (mm^2)		2 x 185	2 x 240					
Minimum Cu busbar cross-section (mm^2)		2 x 50 x 5	2 x 50 x 5	2 x 60 x 5	2 x 80 x 5	2 x 100 x 10	2 x 100 x 10	2 x 100 x 10
Maximum Cu cable cross-section (mm^2)		2 x 300	4 x 185	4 x 185	6 x 185			
Maximum Cu busbar width (mm)		63	63	63	100	100	100	100
Tightening torque mini / maxi (Nm)		20/26	20/26	20/26	40/45	40/45	40/45	40/45
Switching time (Standard setting)								
I-0 or II-0 (s)		2.6	2.6	2.6	2.6	2	2	2
I - II or II - I (s)		1.6	1.6	1.6	1.6	1	1	1
Duration of "electrical blackout" I - II (s)		1.5	1.5	1.5	1.6	1	1	1
Power supply								
min / max (VAC)		166/332	166/332	166/332	166/332	166/332	166/332	166/332
Control supply power demand								
Power supply 230 VAC inrush / nominal (VA) - ATyS		460/184	460/184	460/184	460/230	812/322	812/322	812/322
Power supply 230 VAC inrush / nominal (VA) - ATyS d, t, g, p		482/206	482/206	482/206	482/252	834/344	834/344	834/344
Mechanical characteristics								
Durability (number of operating cycles)		4 000	4 000	4 000	3 000	3 000	3 000	3 000
Weight ATyS 3/4 P (kg)		27.9 / 32.2	28.4 / 32.9	28.9 / 33.6	33.1 / 39.4	50.7 / 61.6	50.7 / 61.6	61.0 / 75.3
Weight ATyS d 3/4 P (kg)		28.5 / 32.8	29.0 / 33.5	29.5 / 34.2	33.7 / 40.0	51.3 / 62.2	51.3 / 62.2	61.6 / 75.9
Weight ATyS r, t, g, p 3/4 P (kg)		29.0 / 33.3	29.5 / 34.0	30.0 / 34.7	34.2 / 40.5	51.8 / 62.7	51.8 / 62.7	62.1 / 76.4

(1) Category with index A = frequent operation - Category with index B = infrequent operation.
(2) 3-pole device with 2 pole in series for the "+" and 1 pole for the "-".
4-pole device with 2 poles in series by polarity.
(3) Value for coordination with any circuit-breaker that ensures tripping in less than 0.3s. For coordination with specific circuit-breaker references, higher short-circuit current values are available. Please consult us.

Terminals and connections

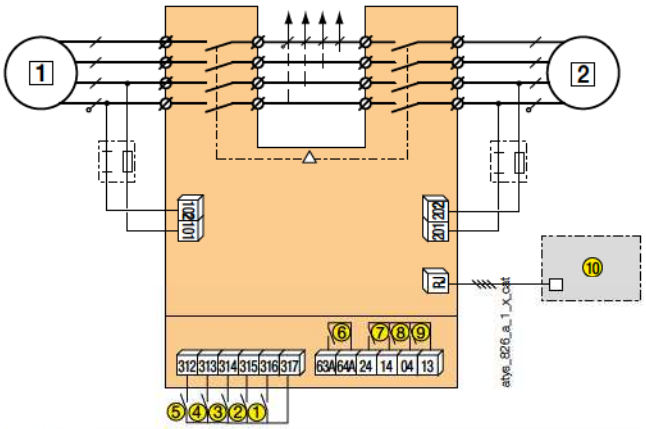
ATyS r



1 preferred source (mains or genset)
2 alternate source (mains or genset)

1: position 0 control (contactor logic if closed)
2: position I control
3: position II control
4: position 0 priority control
5: closure of this contact enables the position control orders
6: product availability relay
7: auxiliary contact, closed when the switch is in position II
8: auxiliary contact, closed when the switch is in position I
9: auxiliary contact, closed when the switch is in position 0

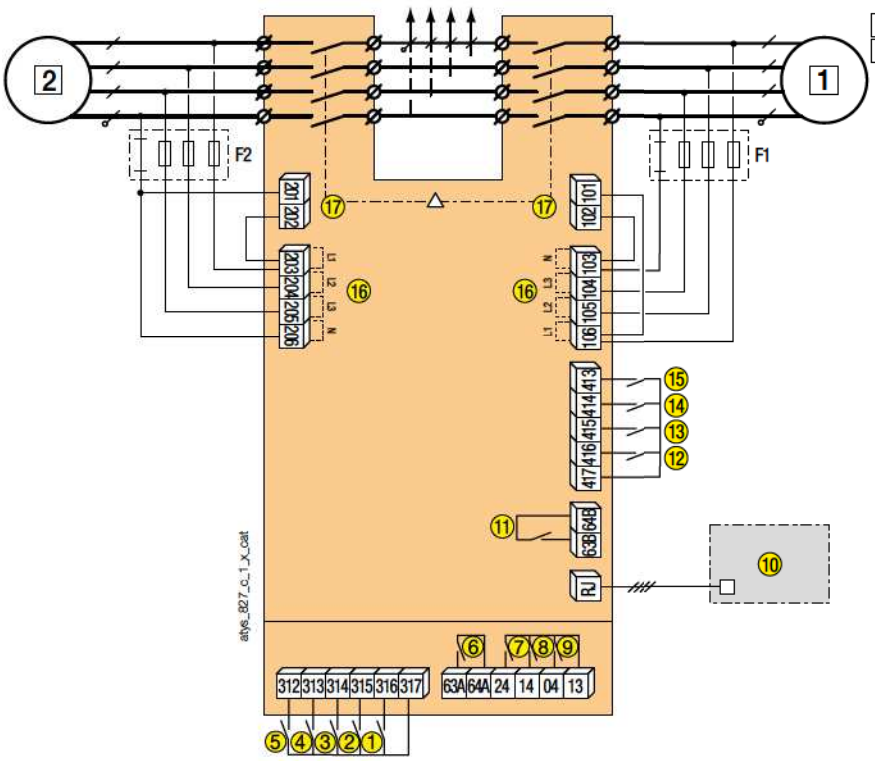
ATyS d



1 preferred source (mains or genset)
2 alternate source (mains or genset)

1: position 0 control (contactor logic if closed)
2: position I control
3: position II control
4: position 0 priority control
5: closure of this contact enables the position control orders
6: product availability relay
7: auxiliary contact, closed when the switch is in position II
8: auxiliary contact, closed when the switch is in position I
9: auxiliary contact, closed when the switch is in position 0
10: D10 remote indicator

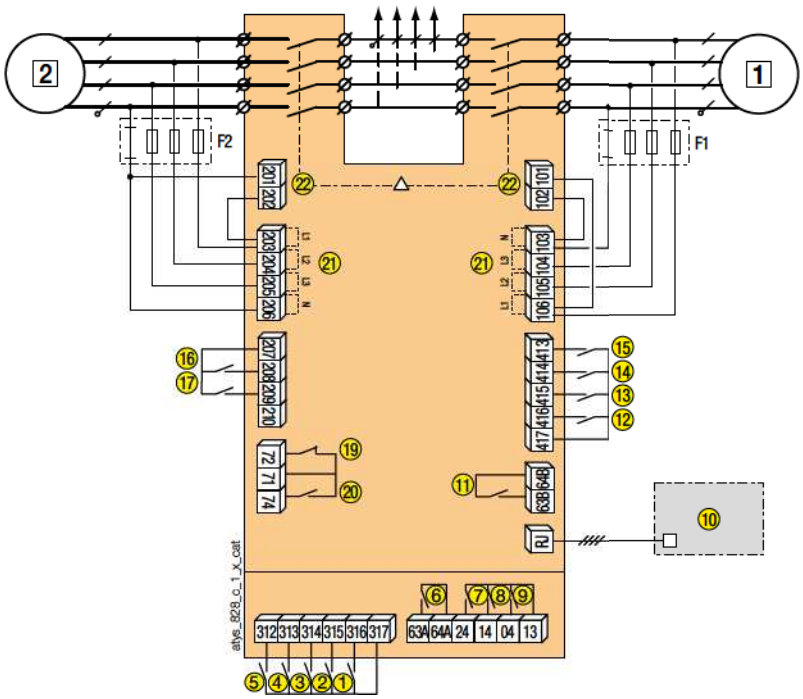
ATyS t



1 preferred source (network)
2 alternate source (network)

1: position 0 control (contactor logic if closed)
2: position I control
3: position II control
4: position 0 priority control
5: closure of this contact enables the position control orders
6: motorisation unit availability relay
7: auxiliary contact, closed when the switch is in position II
8: auxiliary contact, closed when the switch is in position I
9: auxiliary contact, closed when the switch is in position 0
10: D10 remote indicator
11: electronic unit availability relay
12: automatic operation inhibited
13: manual retransfer confirmation
14: preferred source selection
15: operation with or without priority
16: voltage tap inputs
17: power supply inputs

ATyS g

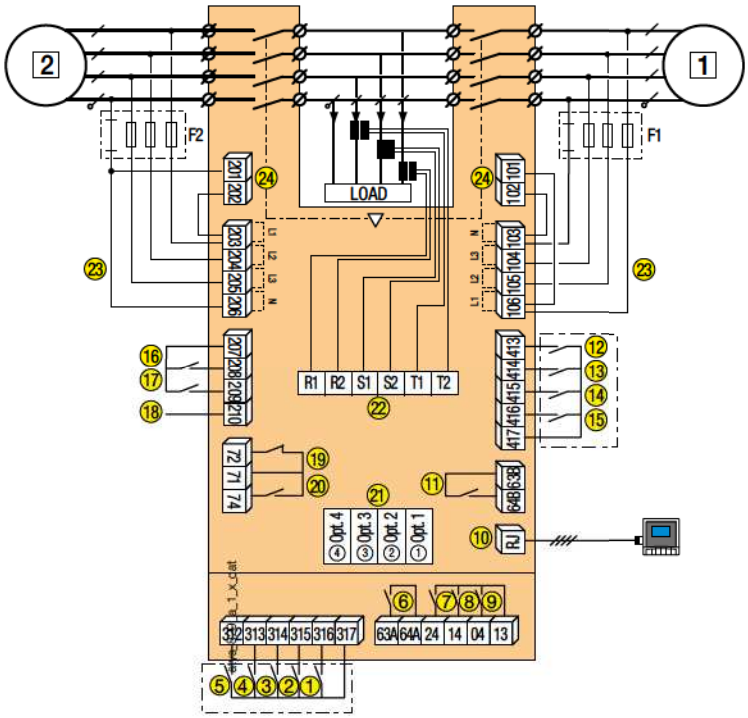


1 preferred source (Mains)
2 alternate source (Mains or genset)
1: position 0 control (contactor logic if closed)
2: position I control
3: position II control
4: position 0 priority control
5: closure of this contact enables the position control orders
6: motorisation unit availability relay
7: auxiliary contact, closed when the switch is in position II
8: auxiliary contact, closed when the switch is in position I
9: auxiliary contact, closed when the switch is in position 0
10: D10 remote indicator
11: electronic unit availability relay
12: automatic operation inhibited
13: manual retransfer confirmation
14: 2AT time delay bypass
15: priority for test on load
16: remote test off load
17: remote test on load
19-20: genset starting and stopping order

Control	71/72 (19)	71/74 (20)
Generator starting	Contact closed	Contact open
Generator stopping	Contact open	Contact closed

21 : voltage tap inputs
22 : power supply inputs

ATyS p



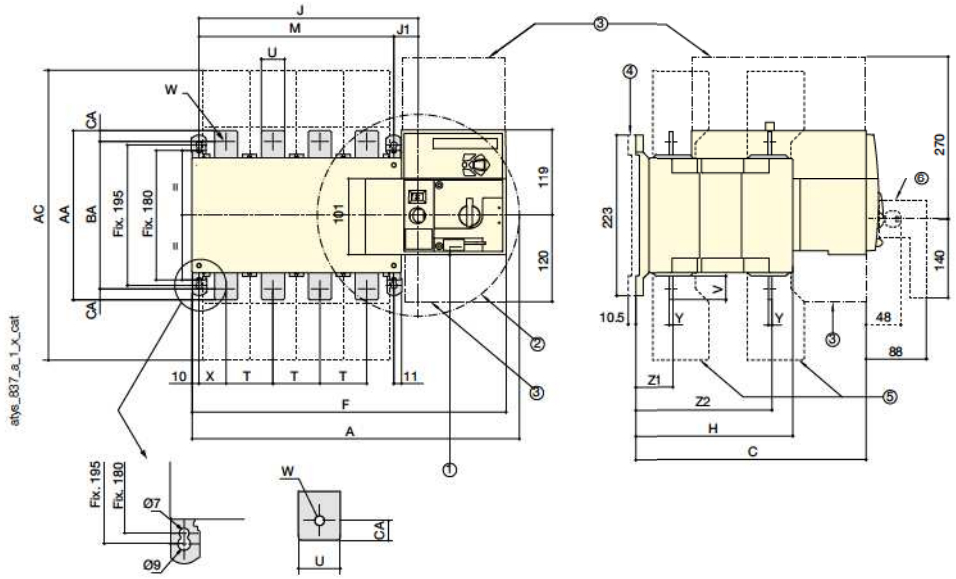
1 preferred source (Mains or genset)
2 alternate source (Mains or genset)
1: position 0 control (contactor logic if closed)
2: position I control
3: position II control
4: position 0 priority control
5: closure of this contact enables the position control orders
6: motorisation unit availability relay
7: auxiliary contact, closed when the switch is in position II
8: auxiliary contact, closed when the switch is in position I
9: auxiliary contact, closed when the switch is in position 0
10: remote display D20
11: electronic unit availability relay
12-17: programmable inputs
18: auxiliary power supply for the use of optional modules
19-20: genset starting and stopping order

Control	71/72 (19)	71/74 (20)
Generator starting	Contact closed	Contact open
Generator stopping	Contact open	Contact closed

21 : 4 slots for optional modules
22: current transformer connection
23 : voltage tap inputs
24 : power supply inputs

Dimensions

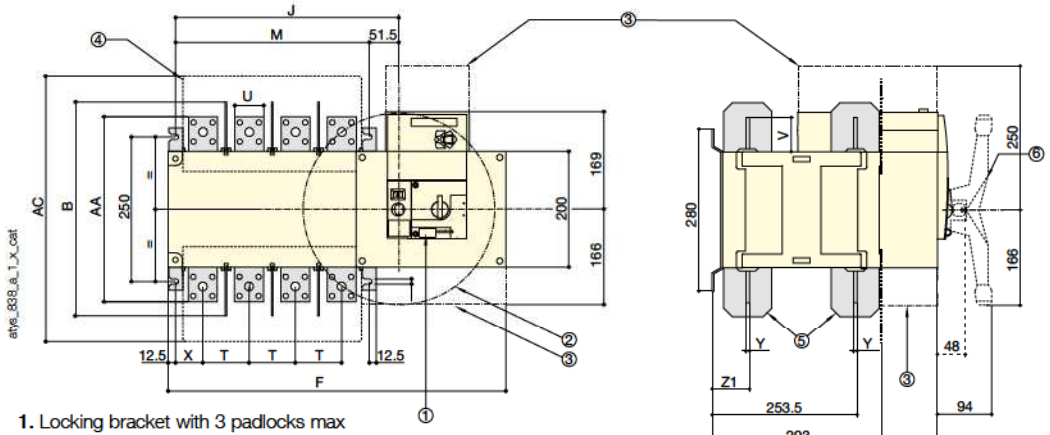
ATyS 125 to 630 A / B3 to B5



1. Locking bracket with 3 padlocks max
2. Maximum handle radius, operating angle 2 x 90°
3. Connection and disconnection area
4. Spacers
5. Terminal shrouds
6. Handle

Rating (A) / Frame size	Overall dimensions			Terminal shrouds	Switch body						Switch mounting		Connection										
	A 3p.	A 4p.	C	AC	F 3p.	F 4p.	H	J 3p.	J 4p.	J1	M 3p.	M 4p.	T	U	V	W	X 3p.	X 4p.	Y	Z1	Z1	AA	BA	CA
125 / B3	304	334	244	233	286.5	317	151	154	184	34	120	150	36	20	25	9	28	22	3.5	38	134	135	115	10
160 / B3	304	334	244	233	286.5	317	151	154	184	34	120	150	36	20	25	9	28	22	3.5	38	134	135	115	10
200 / B3	304	334	244	233	286.5	317	151	154	184	34	120	150	36	20	25	9	28	22	3.5	38	134	135	115	10
250 / B4	345	395	244	288	328	378	152	195	245	35	160	210	50	25	30	11	33	33	3.5	39.5	133.5	160	130	15
315 / B4	345	395	244	288	328	378	152	195	245	35	160	210	50	35	35	11	33	33	3.5	39.5	133.5	170	140	15
400 / B4	345	395	244	288	328	378	152	195	245	35	160	210	50	35	35	11	33	33	3.5	39.5	133.5	170	140	15
500 / B5	394	454	320.5	402	377	437	221	244	304	34	210	270	65	32	50	14	42.5	37.5	5	53	190	260	220	15
630 / B5	394	454	320.5	402	377	437	221	244	304	34	210	270	65	45	50	13	42.5	37.5	5	53	190	260	220	20

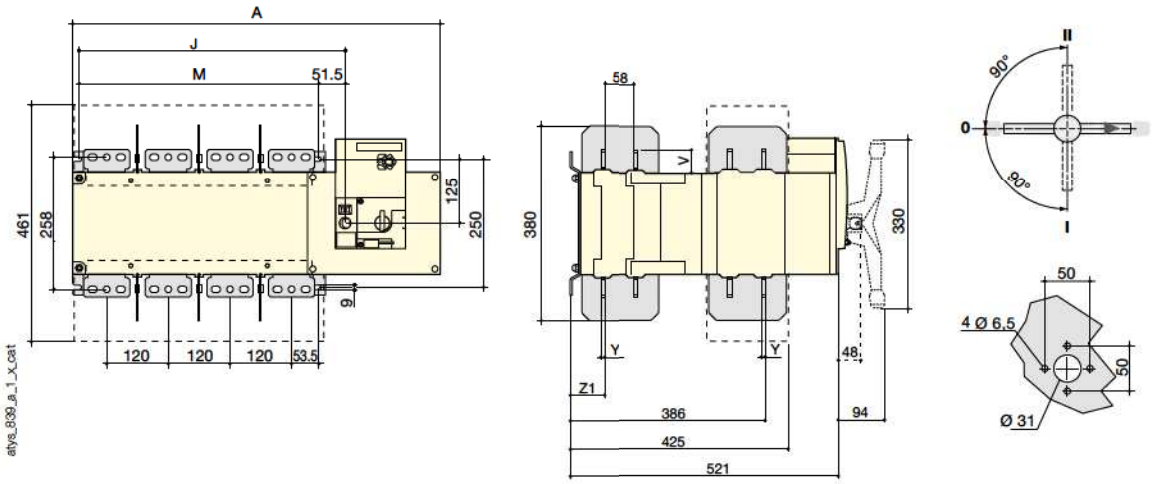
ATyS 800 to 1600 A / B6 to B7



1. Locking bracket with 3 padlocks max
2. Maximum handle radius, operating angle 2 x 90°
3. Connection and disconnection area
4. Terminal screens
5. Inter phase barrier
6. Handle

Rating (A) / Frame size	Overall dimensions	Terminal shrouds	Switch body				Switch mounting		Connection						
	B	AC	F 3p.	F 4p.	J 3p.	J 4p.	M 3p.	M 4p.	T	U	V	X	Y	Z1	AA
800 / B6	370	461	504	584	306.5	386.5	255	335	80	50	60.5	47.5	7	66.5	321
1000 / B6	370	461	504	584	306.5	386.5	255	335	80	50	60.5	47.5	7	66.5	321
1250 / B6	370	461	504	584	306.5	386.5	255	335	80	60	65	47.5	7	66.5	330
1600 / B7	380	531	596	716	398.5	518.5	347	467	120	90	44	53	8	67.5	288

ATyS 2000 to 3200 A / B8

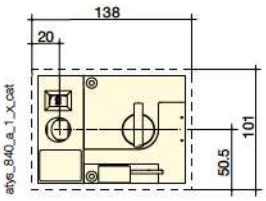


Rating (A)	Overall dimensions B	Terminal shrouds AC	Switch body				Switch mounting		Connection						
			F 3p.	F 4p.	J 3p.	J 4p.	M 3p.	M 4p.	T	U	V	X	Y	Z1	AA
2000 ... 3200	380	531	347	467	399	519	347	467	120	90	44	53	8	67.5	288

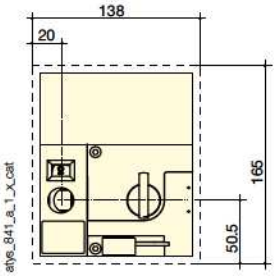
Cut of dimensions

ATyS 125 to 630 A / B3 to B5

ATyS r

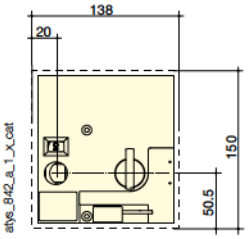


ATyS d, t, g, p

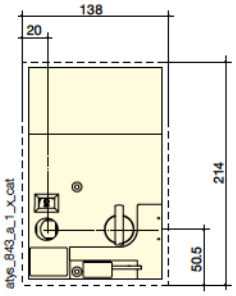


ATyS 800 to 1600 A / B6 to B7

ATyS r

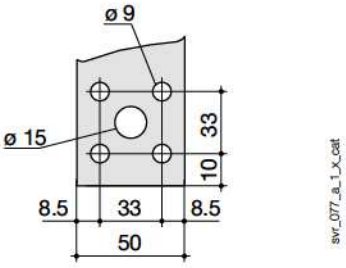


ATyS d, t, g, p

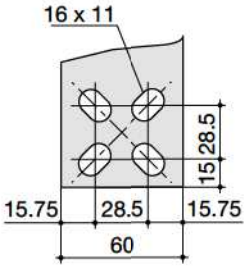


Connection terminals

ATyS 800 to 1000 A / B6



ATyS 1250 A / B6



ATyS 1600 to 3200 A / B7 to B8