



Transfer enclosed switches

ATyS Bypass
40 to 3200 A

Integrated products
and solutions



tablo_006_a_1_cat



tablo_005_a_1_cat

The solution for

- > Data centers
- > Energy generation
- > Healthcare buildings
- > High-rise building
- > Banks and insurance companies
- > Transport



Strong points

- > No load breaks when switching to bypass mode
- > Certified solution
- > A wide range of accessories available

Compliance with standards

- > IEC 61439-2
- > IEC 60947-6,-1
- > IEC 60947-3
- > BS 60947-6-1



Expert Services

Technical site audit, solution specification, advice, commissioning, maintenance, training, etc.

Our Expert Services extend to a complete offer of customised services to make your project a success.



Function

- Automatically switches between 2 sources to ensure continuity of the supply to critical loads such as sprinklers, lifts, water pumps, etc.
- Assures continuity of service during service work, maintenance and testing.
- Full isolation of the automatic switch for safe maintenance work.
- By connecting an **ATyS** to a remote **D20** interface, you can configure, operate and view the measurements at the front of

the equipment (timer settings, thresholds and hysteresis, start/stop of the genset, etc.)

General features

- 40 to 3200 A, 4-pole.
- Mains 230/400 VAC $\pm 20\%$, 50/60 Hz, auto supply from sources.
- Normal/backup control logic.
- Voltage and frequency control of networks I and II.
- Phase rotation control.
- 1 configurable bi-stable output relay for genset start/stop command.
- Control positions I, 0, II with dry contact.
- Manual emergency control.
- Auxiliary contacts.
- JBus/Modbus communication (as standard).
- Auto/Man switch.
- Equipment IP code: IP41 as standard and other IP codes on request.
- Hinged door.
- Retaining brackets (wall mounting) up to 160 A.
- Extension feet from 250 to 3200 A.
- Removable ATyS from 160 A
- Bar identification.
- Mimic panel (3 LEDs for live voltage on source 1, source 2, and load; optional 16-LED mimic panel).
- Built-in protection against direct contact from each functional unit.
- Steel enclosure.
- Colour: RAL 7035.

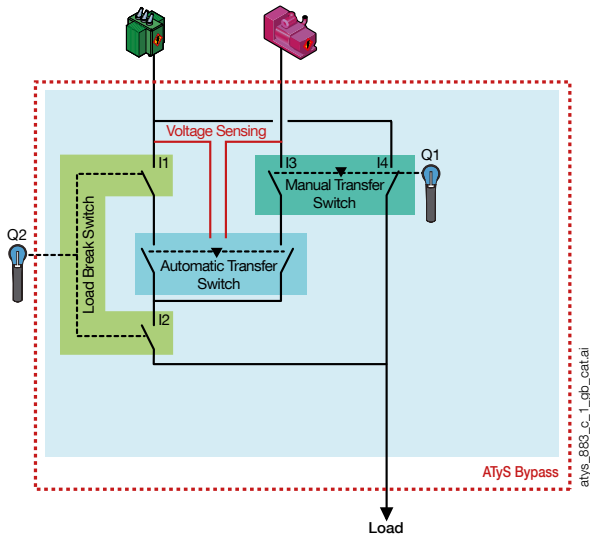
* ATSE: Automatic Transfer Switching Equipment.

2 model versions

ATyS Bypass Single Line

- This consists of 2 components: an automatic changeover switch and a single shunting branch (bypass) connected to the priority source.

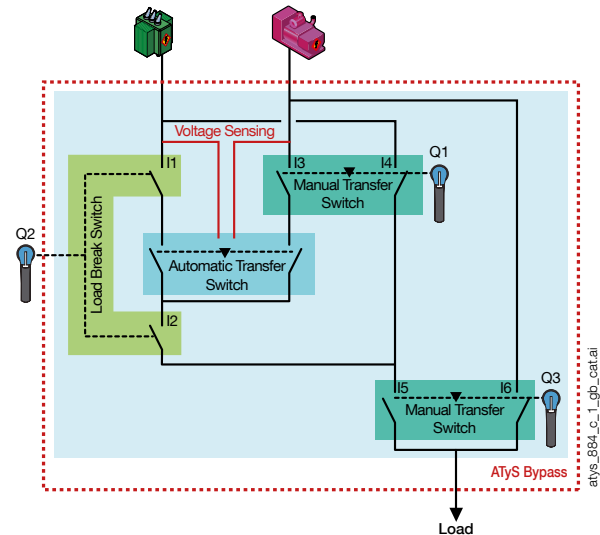
ATyS Bypass - SINGLE LINE



ATyS Bypass Double Line

- This consists of 2 functions: an automatic changeover switch and 2 bypass branches so the available source can be selected during the bypass periods if there is a mains outage.

ATyS Bypass - DOUBLE LINE



Functions

Normal position:

- The load is supplied by the source defined on the ATyS as primary. In the event that there is an outage on this source, the ATyS automatically switches to the backup source as soon as it becomes available.

Bypass position:

- The ATyS switches to bypass mode first by creating a bypass branch via Q1 to maintain the power supply of the load without any interruptions, and then by opening the load break switch Q2. This ensures the complete isolation from all power sources and allows operators to work safely on the system.

Test position:

- From the bypass position, just turn off the Q2 switch to resupply the ATyS and run tests without disturbing the power supply, before returning to the normal position.

References

Standard device - 230 VAC for ATyS p M

Rating (A)	N° of poles	Single line Part number	Double line Part number
40	4 P	1785 4004	1786 4004
63	4 P	1785 4006	1786 4006
80	4 P	1785 4008	1786 4008
100	4 P	1785 4010	1786 4010
125	4 P	1785 4012	1786 4012

Standard device - 230 VAC for ATyS p

Rating (A)	N° of poles	Single line Part number	Double line Part number
160	4 P	1785 4016	1786 4016
250	4 P	1785 4025	1786 4025
400	4 P	1785 4040	1786 4040
630	4 P	1785 4063	1786 4063
800	4 P	1785 4080	1786 4080
1000	4 P	1785 4100	1786 4100
1250	4 P	1785 4120	1786 4120
1600	4 P	1785 4160	1786 4160
2000	4 P	1785 4200	1786 4200
2500	4 P	1785 4250	1786 4250
3 200	4 P	1785 4320	1786 4320

Transfer enclosed switches

ATyS Bypass

40 to 3200 A

Accessories

Customer fit

Designation	Part number
Module with 2 inputs / 2 outputs (ATyS p only)	1599 2001 ⁽¹⁾

(1) Option to install max. 3 part numbers.

Extension enclosure

Use

From 1250 to 3200 A, the standard enclosed ATyS Bypass solution can connect the sources from below and connect the load from below or above.

To make it easier to connect, you can opt for an extension enclosure featuring every type of connection (LL/HH/HL/LH).

Rating (A)	Part number
1250 - 2000	1599 9004
2500 - 3200	1599 9005



kdrys_504_a_2_cat

Surge protection

Use

Protect your equipment against surges with a type 1 and type 2 surge protector kit.

voir catalogue général page 646.

For more information,

Rating (A)	Part number
40 - 125	1599 9016
250 - 400	1599 9017
630 - 3200	1599 9018



sgys_069_a_1_cat

For measuring and monitoring electrical parameters

Use

Measuring systems are available to give the user all the necessary readings for monitoring electrical distribution.

voir catalogue général page 376.

For more information,



diris_750_a_1_cat

Programmable timer

Use

The enclosed ATyS Bypass solution < 250 A is available with a timer system to manage generator testing.

Description	Part number
Programmable timer	1599 9006



access_276_a_1_cat

Tin-plated bars

Use

For harsh environmental conditions you can have the bars tin-plated.

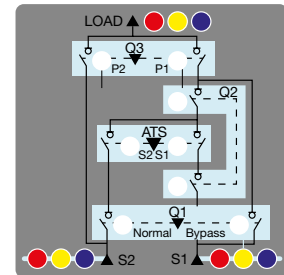
Rating (A)	Part number
250	1599 9007
400	1599 9008
630	1599 9009
800	1599 9010
1000	1599 9011
1250 - 1600	1599 9013
2000	1599 9014
2500 - 3200	1599 9015

Signalling

Use

For a full overview of the system's state, opt for a 17-LED mimic panel (live voltage LED per phase and device position).

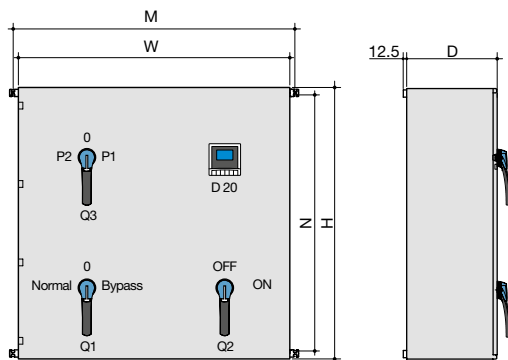
Rating (A)	Mimic panel.	
	Single line Part number	Double line Part number
40 - 3200	Contact us	Contact us



access_2715_b_1_x_cat

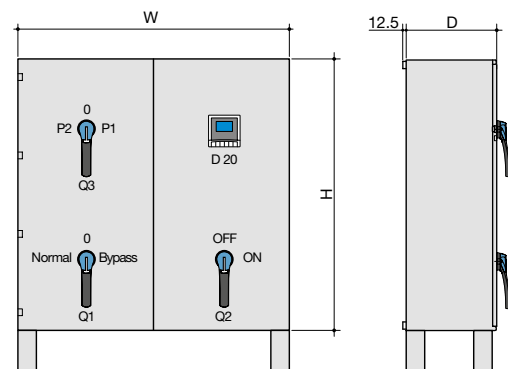
Dimensions

40 to 160 A



atys_749_d_1_gb_cat

≥ 250 A



atys_759_d_1_gb_cat

Wall-mounted - downstream

Rating (A)	Recommended cross-section (mm ²)	H (mm)	W (mm)	P (mm)	M (mm)	N (mm)	Weight (kg)
40	10	800	800	300	848	752	80
63	16	800	800	300	848	752	80
80	25	800	800	300	848	752	80
100	35	1000	800	300	848	752	80
125	50	1000	800	300	848	752	80
160	70	1000	800	400	848	752	160

Floor-mounted - downstream

Rating (A)	Recommended cross-section (mm ²)	H (mm)	W (mm)	P (mm)	Weight (kg)
250	120	1200 ⁽¹⁾	1000	550	180
400	240	1200 ⁽¹⁾	1000	550	200
630	2 x 185	1600 ⁽²⁾	1200	600	600
800	2 x 240	1800 ⁽²⁾	1600	800	1000
1000	4 x 150	1800 ⁽²⁾	1600	800	1000
1250	4 x 185	2000 ⁽³⁾	2000	1000	2000
1600	4 x 240	2000 ⁽³⁾	2000	1000	2000
2000	8 x 150	2000 ⁽⁴⁾	2200	1000	2500
2500	8 x 185	2000 ⁽⁴⁾	2200	1000	2500
3 200	8 x 240	2000 ⁽⁴⁾	2200	1000	2500

(1) Add 200 mm for the base feet.

(2) Add 100 mm for the base feet.

(3) Add 125 mm for the base feet.

(4) Add 120 mm for the base feet.

Connection (input/output)

- 40 to 125 A (L/L or H/L or H/H or L/H).
- 160 to 400 A (L/L or L/H).
- 630 A (L/L).
- ≥ 800 A (please ask).