Transfer enclosed switches

ATyS Bypass

40 to 3200 A

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tablo_035_a_1_cat

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 ±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.*

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.

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2 model versions

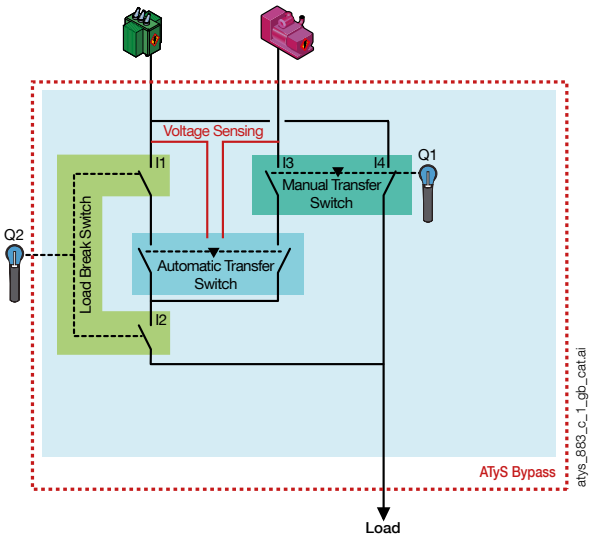
ATyS Bypass Single Line

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

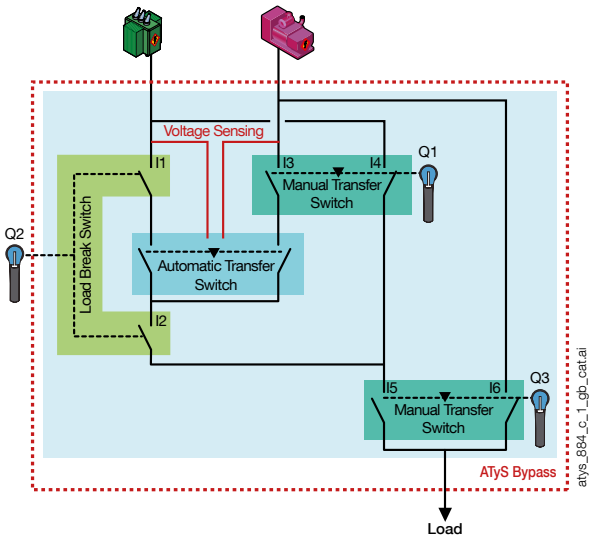
ATyS Bypass Double Line

- 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 - SINGLE LINE



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**

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**

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Surge protection

Use

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

For more information,

voir catalogue général page 646.

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

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For measuring and monitoring electrical parameters

Use

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

For more information,

voir catalogue général page 376.

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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**

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Tin-plated bars

Use

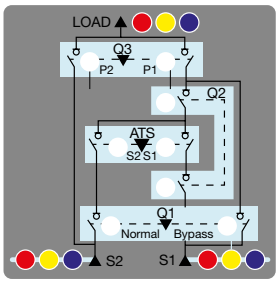
For harsh environmental conditions you can have the bars tin-plated.

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).



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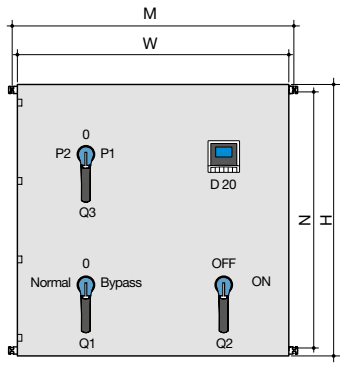
Rating (A)	Mimic panel. Single line Part number	Mimic panel. Double line Part number
40 - 3200	Contact us	Contact us

Dimensions

40 to 160 A



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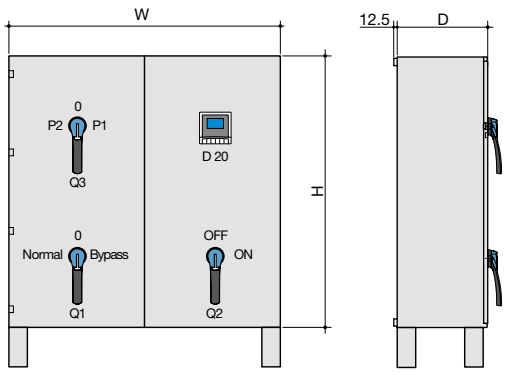
Wall-mounted - downstream

Rating (A)	Recommended cross-section (mm²)	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

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).

≥ 250 A



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Floor-mounted - downstream

Rating (A)	Recommended cross-section (mm²)	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.