

ATyS M range

ATyS *d* M, ATyS *t* M, ATyS *g* M, ATyS *p* M
from 125 to 3200 A

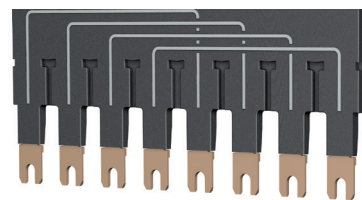
Accessories

Bridging bars

Use

Used to bridge the outgoing common connection between switch I and switch II. The bridging bar does not reduce the connection capacity of the cage terminals.

Rating (A)	No. of poles	Reference
40 ... 125	2 P	1309 2006
160	2 P	1309 2016
40 ... 125	4 P	1309 4006
160	4 P	1309 4016



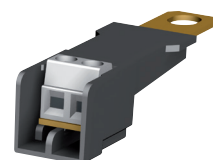
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Voltage sensing and power supply tag

Use

Allows connection of $2 \times \leq 1.5 \text{ mm}^2$ voltage sensing or power cables. The single-pole voltage sensing tap can be mounted in any of the terminals without reducing their connecting capacity.

Rating (A)	Pack	Reference
40 ... 160	2 pieces	1399 4006



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Terminal shroud

Use

Protection against direct contact with terminals or connecting parts.

Advantages of the terminal shrouds

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

Mounting

For complete upstream and downstream protection with the three-phase version, please order quantity 2; for the single-phase version please order quantity 1.



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Rating (A)	Position	Reference
40 ... 160	upstream and downstream	2294 4016⁽¹⁾

(1) Part composed of 2 pieces.

Auxiliary contact

Use

Each product can take up to 2 auxiliary contact blocks.

One block comprises 3 NO/NC auxiliary contacts (positions I, 0 and II).

The ATyS d M is delivered as standard with 1 block with separate common points.

Characteristics:

250 VAC / 5 A max.

24 VDC / 2 A max.

Rating (A)	Type	Reference
40 ... 160	Separate common points	1309 1001
40 ... 160	Linked common points	1309 1011



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Sealable cover

Use

Prevents access to the ATyS t M and ATyS g M configuration panels.

Rating (A)	No. of poles	Reference
40 ... 160	2 P	1359 2000
40 ... 160	4 P	1359 0000



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Polycarbonate enclosure

Use

Dedicated to the installation of a three-phase ATyS M, it enables easy integration of a compact transfer switch solution.

Rating (A)	H x W x D (mm)	Reference
40 ... 160	385 x 385 x 193	1309 9006

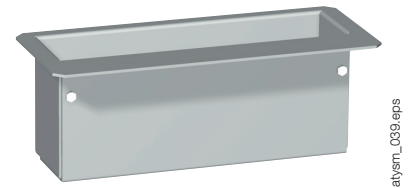


Extension unit

Use

Combined with the polycarbonate enclosure, the extension unit provides additional space to connect 70 mm² cables to the ATyS M with ease.

Rating (A)	Reference
40 ... 160	1309 9007



Residential enclosure

Use

Dedicated to the implementation of a single-phase ATyS M, this enclosure provides a compact IP41 transfer switch solution with easy integration.

Rating (A)	H x W x D (mm)	Reference
40 ... 160	410 x 305 x 150	1309 9056



Dual power supply - DPS

Use

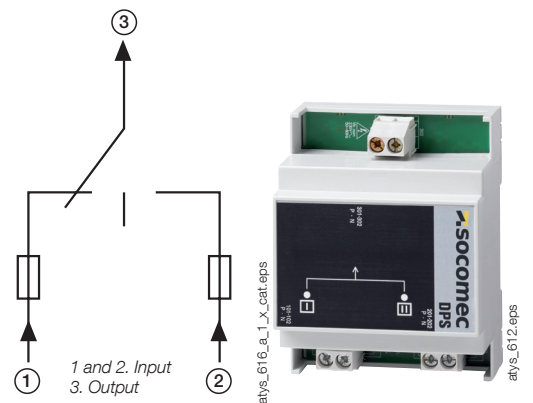
Allows an ATyS d M to be supplied by two 230 VAC 50/60 Hz networks.

Input

- The input is considered as "active" from 200 VAC.
- Maximum voltage: 288 VAC.
- Internal protection: each input is fuse protected (3.15 A).
- Connecting to fixed terminals: max. 6 mm².
- Modular product: the width of 4 modules.

Description of accessories	Reference
DPS	1599 4001

Input 1	Input 2	Output
230 VAC	0 VAC	230 VAC (input 1)
0 VAC	230 VAC	230 VAC (input 2)
230 VAC	230 VAC	230 VAC (input 1)
0 VAC	0 VAC	0 VAC



ATyS M range

ATyS **d** M, ATyS **t** M, ATyS **g** M, ATyS **p** M

40 to 160 A

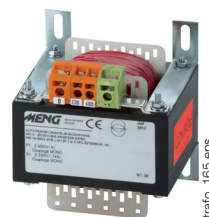
Accessories (continued)

Auto-transformer

Use

The 400/230 VAC 400 VA adaptation auto-transformer is for use with ATyS M in three-phase network applications with no neutral. To use with the ATyS M 230/400 VAC version, the position of the neutral (right or left) and the product network type 3NBL must be configured in programming mode.

Rating (A)	Reference
40 ... 160	1599 4121



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Remote interfaces for ATyS p M

Use

For applications requiring the changeover switch to be mounted inside the cabinet.

Self-powered via the connection with the ATyS M.

Maximum cable length: 3 m.

D10

To display the statuses of sources and the changeover switch on the front panel.

Ingress Protection rating: IP21

D20

In addition to the D10 interface functions, displays measurements and enables control and configuration from the front display panel.

Ingress Protection rating: IP21

Door mounting

2 holes with diameter of 22.5.

ATyS M connection via RJ45 cable and socket, unshielded. Cable not provided



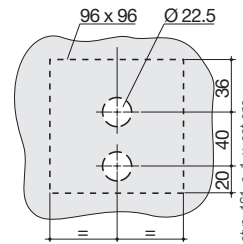
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RJ45 to connect to ATyS M

Drillings

Description of accessories	Reference
D10	9599 2010
D20	9599 2020

Connecting cable for remote interfaces

Use

Simple connection between a remote interface (type D10 or D20) and a control product (ATyS p M).

Characteristics:

RJ45 8 straight-through, non insulated cables, length 3m.



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Type	Length	Reference
RJ45 cable	3 m	1599 2009

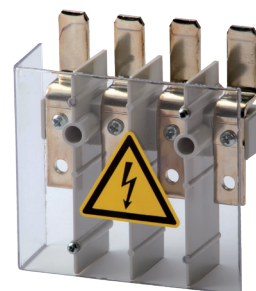
Cage-terminal interface

Use

The cage-terminal interface allows you to convert the cage terminals into bolt-on type connection terminals, enabling connection of up to two 35 mm² cables or one 70 mm² cable. Each interface is provided with terminal separation screens.

Rating (A)	Reference
40 ... 160	1399 4017 ⁽¹⁾

(1) For complete conversion, order quantity 3.

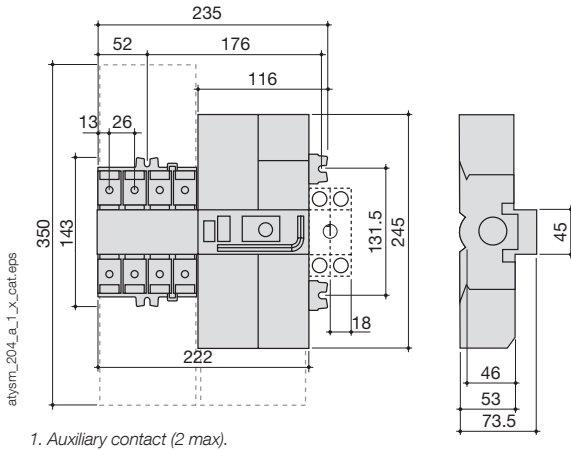


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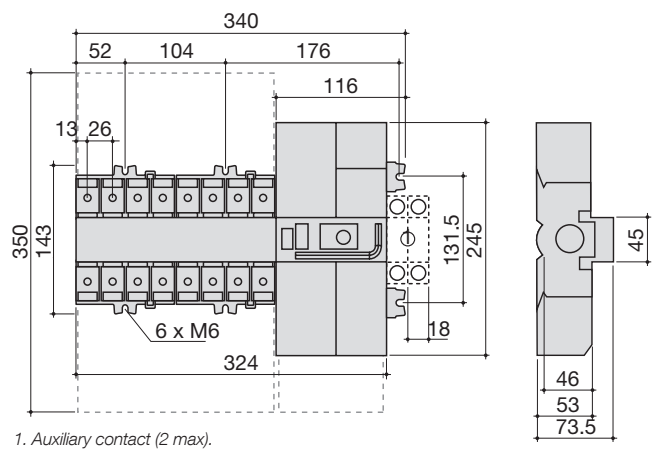
Dimensions

ATyS M 40 to 160 A

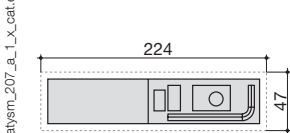
Single-phase ATyS M



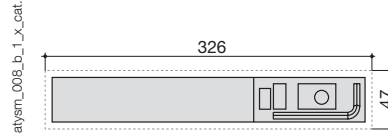
Three-phase ATyS M



Single-phase ATyS M - door cutout

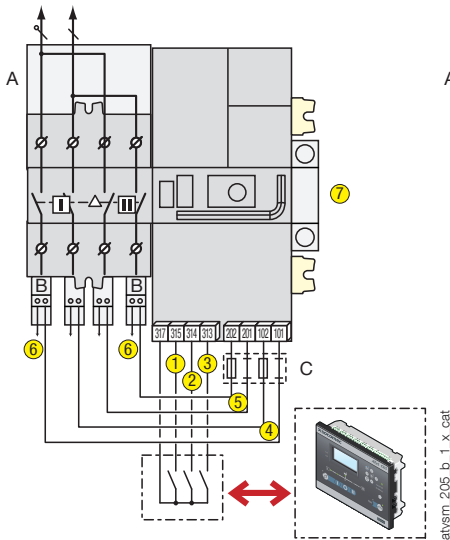


Three-phase ATyS M - door cutout

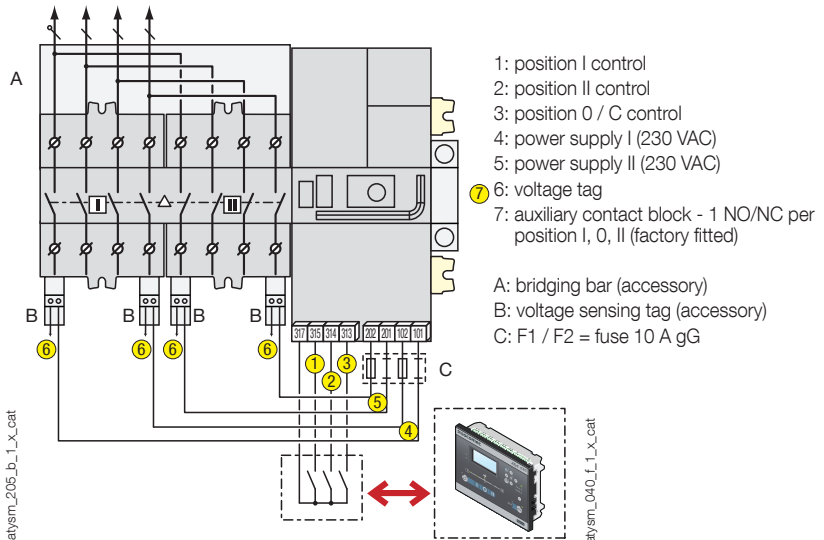


Terminals and connections

Single-phase ATyS d M



Three-phase ATyS d M



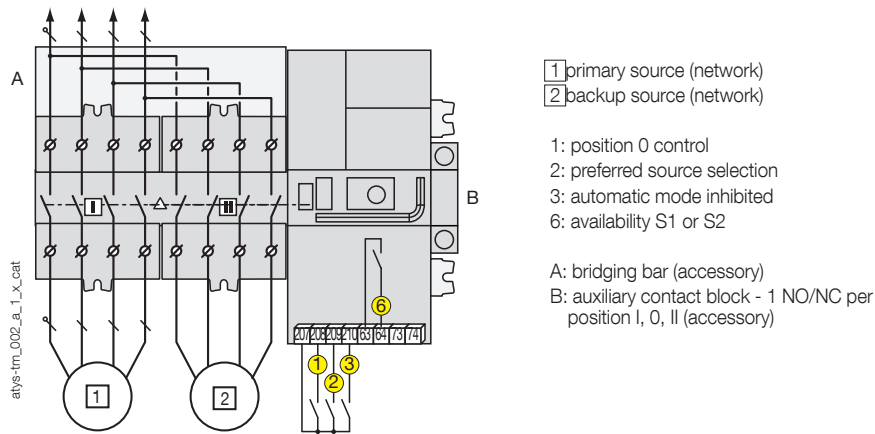
ATyS M range

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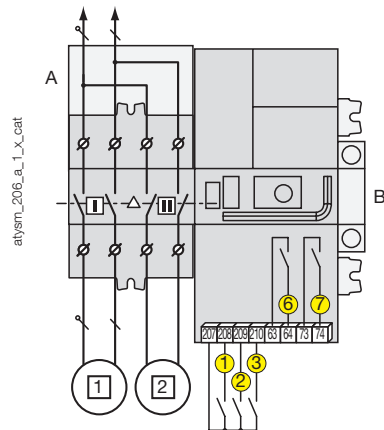
40 to 160 A

Terminals and connections

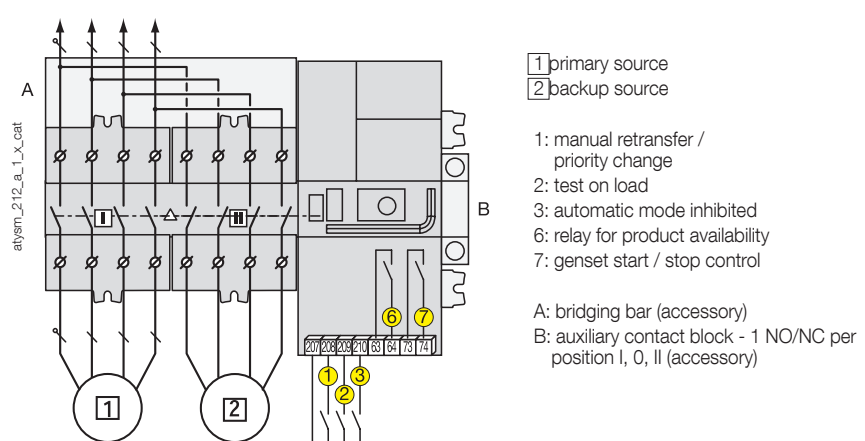
Three-phase ATyS t M



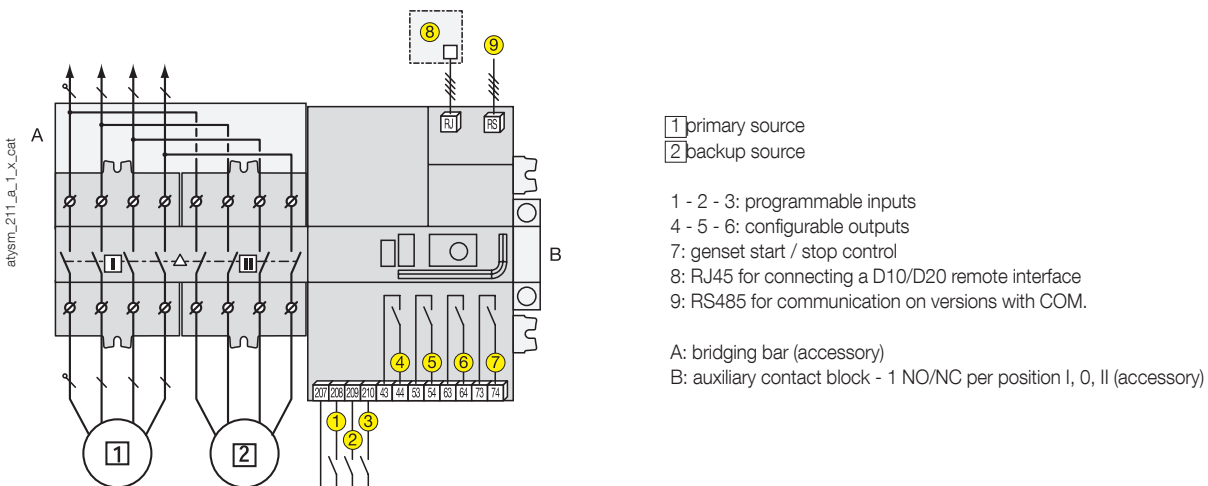
Single-phase ATyS g M



Three-phase ATyS g M



Three-phase ATyS p M



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

40 to 160 A

Thermal current I_{th} at 40 °C	40 A	63 A	80 A	100 A	125 A	160 A
Rated insulation voltage U_i (V) (power circuit)	800	800	800	800	800	800
Rated impulse withstand voltage U_{imp} (kV) (power circuit)	6	6	6	6	6	6
Rated insulation voltage U_i (V) (control circuit)	300	300	300	300	300	300
Rated impulse withstand voltage U_{imp} (kV) (control circuit) - ATyS d M	4	4	4	4	4	4
Rated impulse withstand voltage U_{imp} (kV) (control circuit) - ATyS t M, g M and p M	2.5	2.5	2.5	2.5	2.5	2.5

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⁾
415 VAC	AC-31 A / AC-31 B	40/40	63/63	80/80	100/100	125/125	160/160
415 VAC	AC-32 A / AC-32 B	40/40	63/63	80/80	100/100	100/125	100/160
415 VAC	AC-33 A / AC-33 B	-/40	-/63	-/80	-/100	-/125	-/125

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⁾
415 VAC	AC-20 A / AC-20 B	40/40	63/63	80/80	100/100	125/125	160/160
415 VAC	AC-21 A / AC-21 B	40/40	63/63	80/80	100/100	125/125	160/160
415 VAC	AC-22 A / AC-22 B	40/40	63/63	80/80	100/100	125/125	160/160
415 VAC	AC-23 A / AC-23 B	40/40	63/63	80/80	100/100	125/125	125/160
690 VAC	AC-21 A / AC-21 B	40/40	63/63	80/80	100/100	125/125	160/160
690 VAC	AC-22 A / AC-22 B	40/40	63/63	80/80	80/80	100/125	100/125
690 VAC	AC-23 A / AC-23 B	40/40	63/63	63/63	80/80	80/80	80/80

Rated conditional short-circuit current with gG DIN fuse

Conditional short-circuit current (kA rms)	50	50	50	50	50	40
Associated fuse rating (A)	40	63	80	100	125	160

Rated conditional short-circuit current with any brand of circuit breaker that ensures tripping in less than 0.3s ⁽⁴⁾

Rated short-term withstand current 0.3s I_{scw} (kA rms)	7	7	7	7	7	7
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Short-circuit operation (switch only)

Current rated as short-time withstand 1s I_{scw} (kA rms) ⁽²⁾	4	4	4	4	4	4
Dynamic withstand I_{dc} (kA peak) ⁽²⁾	17	17	17	17	17	17

Connection

Min. connection cross-section (mm ²)	10	10	10	10	10	10
Maximum Cu cable cross-section (mm ²)	70	70	70	70	70	70
Tightening torque (Nm)	5	5	5	5	5	5

Switching time⁽⁵⁾

I - 0 or II - 0, following a command (ms)	45	45	45	45	45	45
Transfer time I - II or II - I, following a command (ms)	180	180	180	180	180	180
I-0 or II-0, after outage (s)	1.2	1.2	1.2	1.2	1.2	1.2
I-II or II-I transfer time, after outage (s)	1.4	1.4	1.4	1.4	1.4	1.4
Contact transfer time ("black-out") I-II min. (ms) ⁽³⁾	150	150	150	150	150	150

Power supply

Min./max. auxiliary power supply (VAC) (ATyS d M, t M and g M)	176/288	176/288	176/288	176/288	176/288	176/288
Min./max. auxiliary power supply (VAC) (ATyS p M)	160/305	160/305	160/305	160/305	160/305	160/305

Control supply power demand

Rated power (VA)	6	6	6	6	6	6
Max. current at 230 VAC (A) - ATyS d M, t M and g M	30	30	30	30	30	30
Max. current at 230 VAC (A) - ATyS p M	20	20	20	20	20	20

Mechanical characteristics

Durability (number of operating cycles)	10,000	10,000	10,000	10,000	10,000	10,000
Weight of single-phase models - non-packaged (kg)	2.8	2.8	2.8	2.8	2.8	2.8
Weight of single-phase models - including packaging (kg)	3.5	3.5	3.5	3.5	3.5	3.5
Weight of three-phase models - non-packaged (kg)	3.5	3.5	3.5	3.5	3.5	3.5
Weight of three-phase models - including packaging (kg)	4.2	4.2	4.2	4.2	4.2	4.2

(1) Category with Index A = frequent operation /

Category with Index B = infrequent operation.

(2) For a rated operational voltage U_n = 400 VAC.

(3) 5% tolerance.

(4) 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 contact us.

(5) At rated voltage - excluding time delays, where applicable.