ATyS C25
ATS Controller
entry-level functionalities

new

atysc_015.eps

ATyS C25

The solution for

> ATS panels
> Compact transfer enclosures
> Basic ATS controls

Strong points

> Self-supplied from sensing circuit
> Integrated AC Double Power Supply
> RS485 Communications
> Multiple mounting options

Conformity to standards

> IEC 61010-2-201
> IEC 60947-6-1
> GB/T 14048.11 Annex C

IEC

Function

ATyS C25 is an entry level ATSE controller with communications. It can be used to pilot a remotely operated transfer switch, such as ATyS r, ATyS S and ATyS d M, as well as contactors. ATyS C25 ensure the automatic or remotely controlled transfer from one source to another with fixed timers and thresholds.

Advantages

Flexible space saving
The ATyS C25 controller can be mounted on either a DIN rail or to the panel door, offering flexibility and optimising space.

Cost-effective
The ATyS C25 has an integrated DPS, for supplying the motorisation of the switch, and can be door mounted, therefore there's no need for an external DPS or display, reducing installation time and costs.

Fast commissioning & testing
• 8 dip-switches allow very fast commissioning, even offline.
• All main functions such as remote position control, mode selection, lamp test and genset test on load are available on the front of the product allowing quick and easy operation.
• Remote product information is available through RS485 Modbus communication.

General characteristics

• Self-powered from sensing.
• Voltage supply range (184 - 300 VAC).
• 24 VDC aux power supply (for optional use).
• Main/Main or Main/Genset networks.
• Fixed I/Os.
• RS485 Modbus communication.

• Voltage sensing on all phases.
• Three-phase + Neutral & Single-phase + Neutral networks.
• Phase rotation checking.
• Door or DIN rail mounting.

References

Description	Reference
ATyS C25 – ATS controller	1600 **0025**

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Front panel

1. Controller status indication.
2. Configuration dip-switches.
3. Lamp test / Test on Load (3s).
4. Position orders (in Manual).
5. Auto/Manu mode selector.
6. Mimic panel.
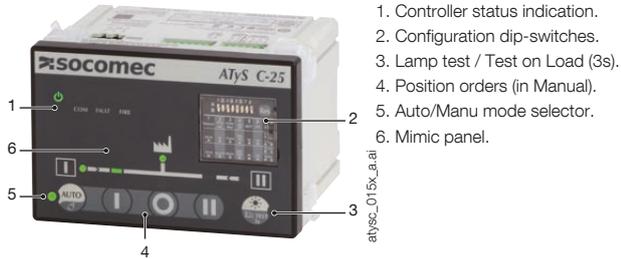
Dimensions (mm)
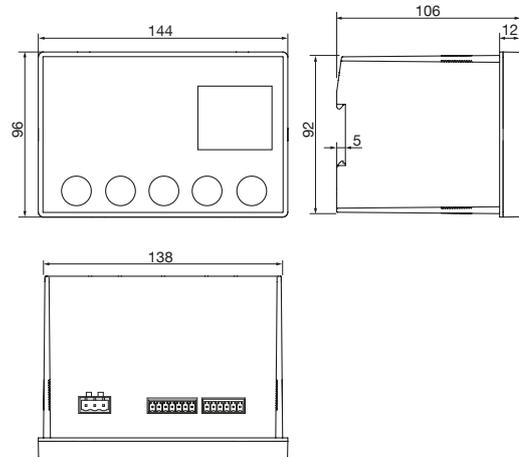
Characteristics

Electrical characteristics

AC operating limits	184 [1] - 300 VAC
Optional DC supply	24 VDC
Frequency limits	45 - 65 Hz
Power consumption	< 10 W
Inputs	5 - fixed (auto inhibit & 24 VDC fire input, position indication I-0-II)
Outputs	4 - fixed (position control I-0-II & genset start)
Impulse withstand	6/4 kV[2]
Overvoltage category	CAT 3

Mechanical characteristics

Weight	845 gr
Door cutout	138 x 92 mm
Operating temperature	-25 … +60°C

Communications

Interface type	RS485. 2 to 3 half duplex wires
Protocol	MODBUS RTU
Baudrate	38400

Measurement characteristics

Nominal voltage DIP 1 (1PH+N / 3P+N)	230 / 400 VAC
Nominal frequency (fixed)	50 Hz
Voltage threshold settings DIP 4	10% / 20% of Nominal voltage
Frequency threshold settings DIP 4	5% / 10% of nominal frequency
Voltage and frequence Hysteresis (fixed)	20% of $\Delta U / \Delta F$

Other settings

0DT dead-band timer DIP 5	0 / 2 s
FT Source 1 and 2 fail timer DIP 6	3 / 10s
RT Source 1 and 2 return timer DIP 7&8	0 (3s) / 3 / 10 / 30 min
Source priority DIP 2	Priority source 1 / No priority
Position Output signal DIP 3	Impulse / Maintained

(1) 190 VAC in contactor mode.
(2) 6 kV tested between phases of a different source and 4 kV tested between phases of a the same source.

Terminals
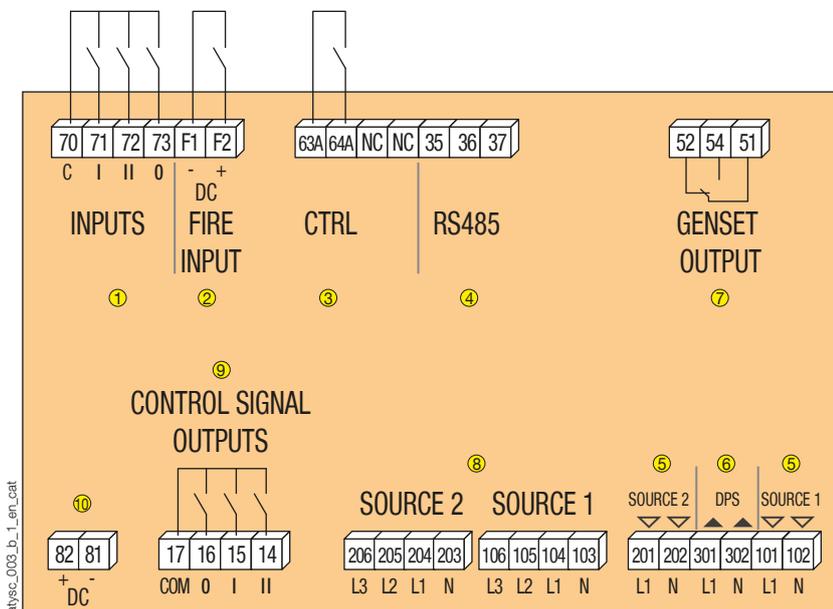
1. Switch position inputs
2. 24 VDC fire input (forces 0 & inhibit)
3. Control inputs
4. RS485 communication
5. DPS input (source 1 and 2)
6. DPS output to motor
7. Genset NO/NC output
8. Voltage sensing S1 & S2
9. Control outputs to transfer device
10. 24 VDC aux power supply (for optional use)

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