

ATyS C25

Automatic Transfer Switch Controller

Ref. 1600 0025

ATyS C25 is an entry level ATSE controller that can be used to pilot a remotely operated transfer switch like motorised switches or contactors. It allows the automatic or remotely controlled transfer from one source to another with fixed thresholds and dip-switch selectable parameters such as timers and network characteristics.

ATyS C25 has been designed for both Main/Genset and Main/Main applications.

Product Datasheet



Mechanical Characteristics

Mounting options	Door-fitted or DIN-rail mounting
Housing Material	PC
Protection degree front	IP40
Protection degree back	IP20

Electrical Characteristics

Overvoltage category	CAT III
Pollution degree	Pollution degree 2
Impulse withstand test	6/4kV*
AC Operating limits	160 - 300V
Frequency	45-65 Hz
Power consumption	<10VA
Optional DC Aux. supply	24VDC (limits: 19-30V)*

Communication Characteristics

RS485	RS485 interface type	2 to 3 half duplex wires
	Protocol	MODBUS RTU
	Baudrate	38400 bps
	Max. distance	200-1200m (depends on baudrate)
	Termination	120 ohms (not included)

Environmental Characteristics

Ambient operating temp.	-25°C...+70°C
Storage temperature	-25°C...+70°C
Humidity	55°C / 95% HR
Operating altitude	<2000m

I/O Characteristics

Number of Digital Inputs	4x fixed inputs + Fire input 24VDC
Number of Relay Outputs	4x fixed outputs
Outputs rating	AC1 5A 250Vac 50/60Hz
Output contact type	Volt-free NO

COMPLIANCE WITH STANDARDS

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



KEY FEATURES

- Compact design
- DIN-rail mounting
- Integrated DPS
- Single-phase & 3phase networks
- Voltage sensing on all phases
- Auxiliary AC power output
- Optional 24VDC supply
- Fast commissioning with 8 dip-switches
- Test on load button
- Fire input 24VDC
- Impulse & maintained contact logic
- Configurable fail & return timers
- Dead band timer option
- Genset NO/NC start contact
- RS485 communication. Modbus RTU

Measurement Characteristics

Voltage measuring range (on all phases)	160-520 VAC
Measurement type	TRMS (true RMS)
Voltage / Freq Accuracy	1% / 0,1%

CERTIFICATIONS & MARKING ¹

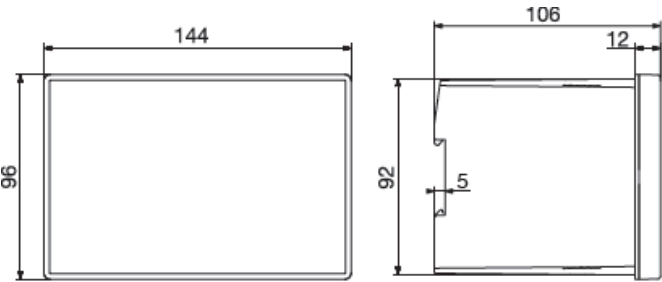


(1) Certifications available on demand.

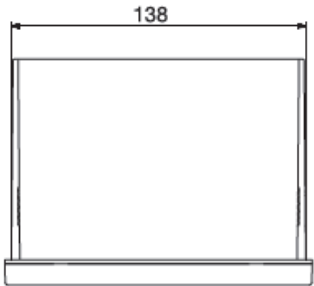
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DIMENSIONS



Overall dimensions	140x94x106mm
Door cutout	138x92mm
Weight	843gr

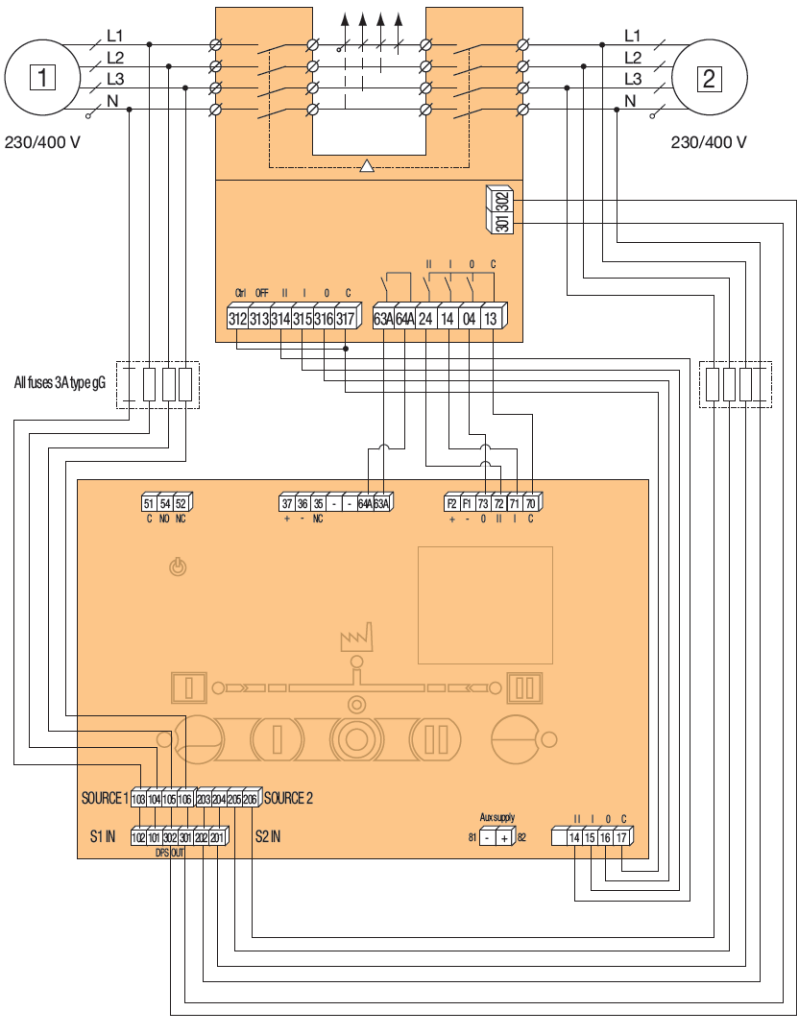


DIP-SWITCH PARAMETERS

1 2 3 4 5 6 7 8								Res
A	B							
1	2	3	4	5	6	7	8	
Network	Prio set	Order Mod	ΔU ΔF	ODT	FT		RT	
3P+N A	S1 A	Pulse A	10% 5% A	2s A	3s A		0 min A 3 min A 10 min B 30min B	
1P+N B	no prio B	Maint. B	20% 10% B	0s B	10s B			

ODT = Dead band timer
 FT = Failure timer
 RT = Return timer
 Res = Reset button

TYPICAL WIRING DIAGRAM



Related documentation

Product Quickstart	549777A
Product Instruction Manual	549780A
Catalogue pages	www.socomec.com

Corporate information

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