ATyS C55

Automatic Transfer Switch Controller

Ref. 1600 0055

Product Datasheet



ATyS C55 is a complete ATSE controller that can be used to pilot a remotely operated transfer switches of any type of technology: motorised switches, circuit breakers or contactors. It allows the automatic or remotely controlled transfer from one source to another with configurable timers and thresholds, for any combination of sources: 2 transformers, 1 transformer and 1 genset and even for 2 gensets. Thanks to the LCD screen, it allows visualising all the main parameters such as status of the sources, position of the switches and main measurement values.

Mechanical Characteristics

Mounting options	Door-fitted or back-plate
Housing Material	PC. Self-extinguishing UL94-V0
Protection degree	IP41 / IP65 front with gasket / IP20 rear
Shock resistance	IK08+ (6,8N)

Electrical Characteristics

Overvoltage category	CAT III
Pollution degree	Pollution degree 3
Impulse withstand test	8/6kV*
AC Operating limits	110-480 +/- 20%
Frequency	45-65 Hz
Power consumption	<10VA
Optional DC Aux. supply	24VDC (limits: 8-29V)*
Cranking dropouts	0V for 50ms
Reverse polarity protection	yes

Communication Characteristics

RS485	RS485 interface type	2 to 3 half duplex wires
	Protocol	MODBUS RTU
	Baudrate	Programmable 1200-115200 bps
	Max. distance	200-1200m (depends on baudrate)
	Termination	120ohms (selectable microswitch)
USB	USB2 Connection Type	Type B micro USB
	Protocol	MODBUS RTU over USB

Display characteristics

Type of display	UV resistant LCD screen
Resolution	350x160 pixels
Protection screen	PC . UL94-V2

COMPLIANCE WITH STANDARDS

- IEC 61010-2-201
- IEC 61010-1
- BS EN 60947-6-1
- GB/T 14048.11 Annex C
- IEC 60947-6-1 when type tested with RTSE

KEY FEATURES

- Self-powered from sensing
- Wide voltage range (88-576VAC)
- Optional 24VDC supply
- 2 latching relays (genset start)
- Smart commissioning wizard
- Up to IP65 protection degree
- 1000 Alarms and Events
- Configurable timers & I/O
- 1 engine exerciser custom program
- Visualisation dashboards in 1 click
- Easyconfig configuration software
- RS485 communication. Modbus RTU
- Ethernet, SNMP, BACnet using Diris D-70 & M-70 gateways (webserver)
- Display languages: EN, FR, ES, IT, PL, CH, TR, PT, DE

CERTIFICATIONS & MARKING *

ISO 9001:2015

(1) Certifications available on demand.

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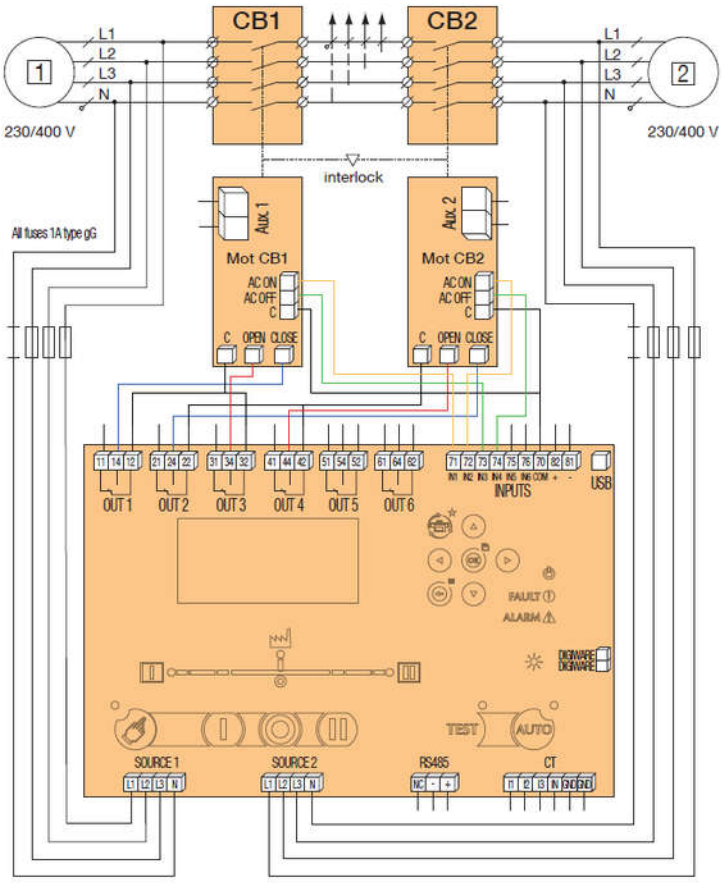
Environmental Characteristics

Ambient operating temperature	-30ºC…+70ºC
Storage temperature	-40ºC…+70ºC
Humidity	55ºC / 95% HR
Operating altitude	<2000m
EMC classification	Class B (industrial + residential)

Measurement Characteristics

Voltage Measuring range (on all phases)	50-576VAC
Measurement type	TRMS (true RMS)
Voltage Accuracy	1%
Frequency Accuracy	0,1%
Sample rate	9,6Hz

Typical wiring diagram



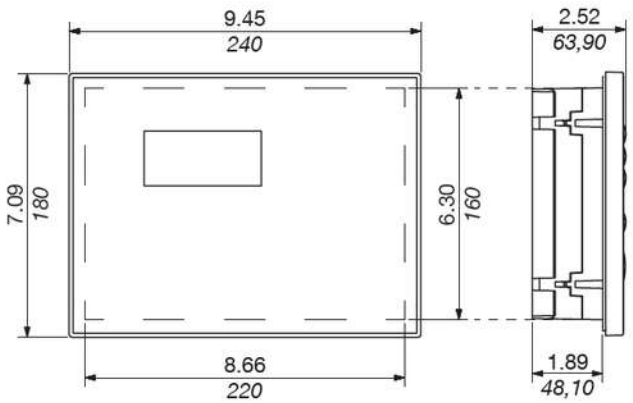
*AC ON/OFF stand for Position Auxiliary Contacts
*Aux 1/2 stand for auxiliary power supply of the motors
*C stands for Common

I/O Characteristics

Number of Digital Inputs	6x fully programmable
Number of Relay Outputs	6x relay outputs (2 latching ones)
Outputs rating	AC1 8A 277Vac 50/60Hz DC1 8A 24Vdc
Output contact type	Volt-free configurable NO/NC

DIMENSIONS

Overall dimensions	240x180x64mm
Door cutout	220x160mm



Related documentation

Product Quickstart	549782A
Product Instruction Manual	549866A
Config. Software download	Available at www.socomec.com

Corporate information

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