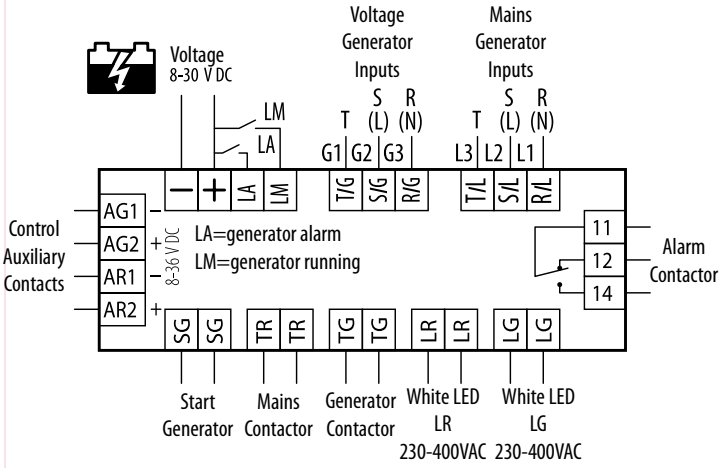
ATS Controller (ATC-E, ATC-B)

Technical data

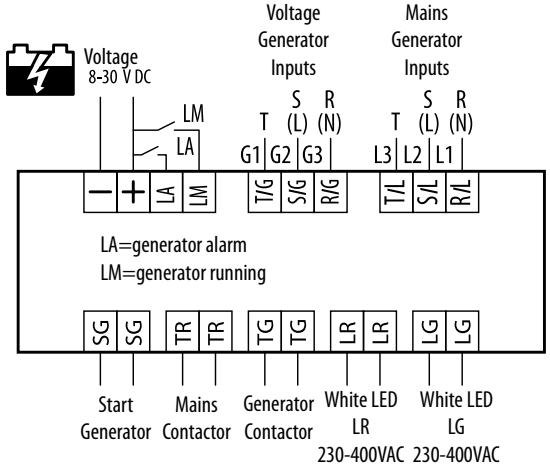
Specifications:		ATC-E	ATC-B
Supply voltage DC	V DC	8 - 30 V DC	
Power consumption (max. AC)	VA	4 VA	
Controlled voltage	V AC	230 V(1F) / 400 V(3F) / 440 V(3F)	
Switch control signal	-	✓	×
Display Type	-	3 digit, 7 segment	
Measurement type	-	RMS	
Measurement range Voltage	V AC	0 - 500 V AC	
Measurement range of frequency	Hz	45 - 65 Hz	
Accuracy	%	±2 %	
Operating temperature	°C	-10 / +50 °C	
Storage temperature	°C	-30 / +70 °C	
Degree of protection	IP	IP 20	
Max. cable size	mm^2	2,5 mm^2 (screw clips)	
Relative humidity	%	95 %	
Housing material	-	UL94 V0 (plastic)	
Type of housing	-	Standard dimensions - 96x96	
Dimensions H × W × D	mm	96 x 96 x 112	
Weight	g	230 g	200 g

Wiring Diagrams

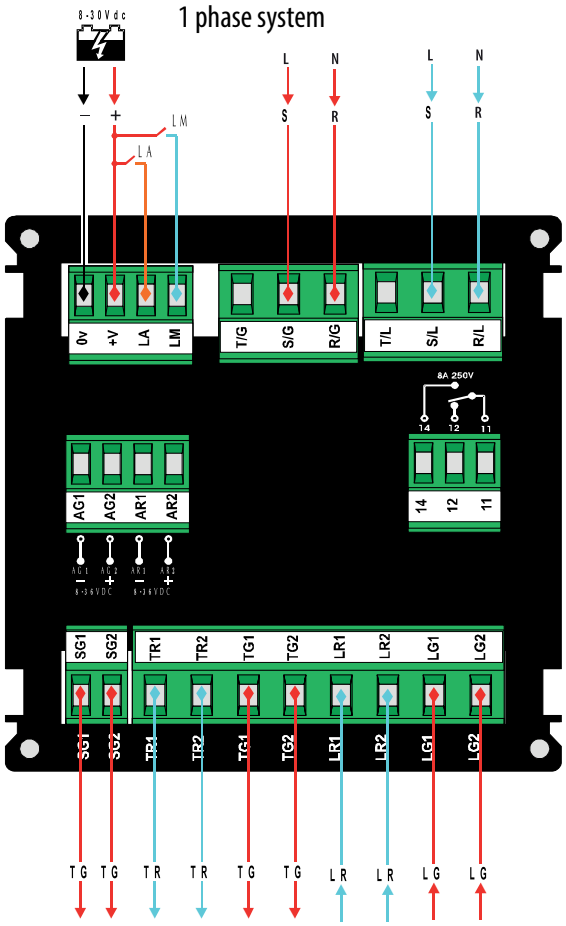
Wiring Diagram ATC-E

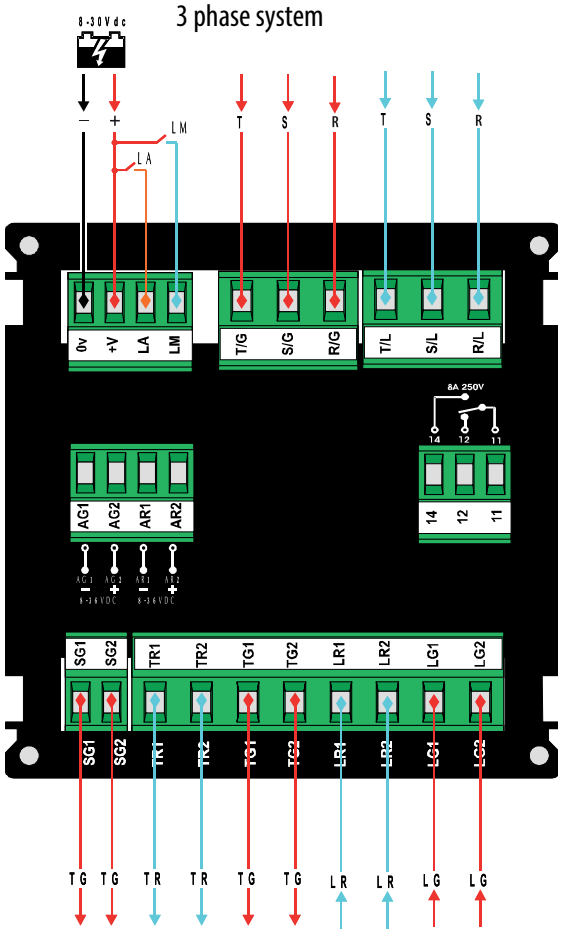


Wiring Diagram ATC-B

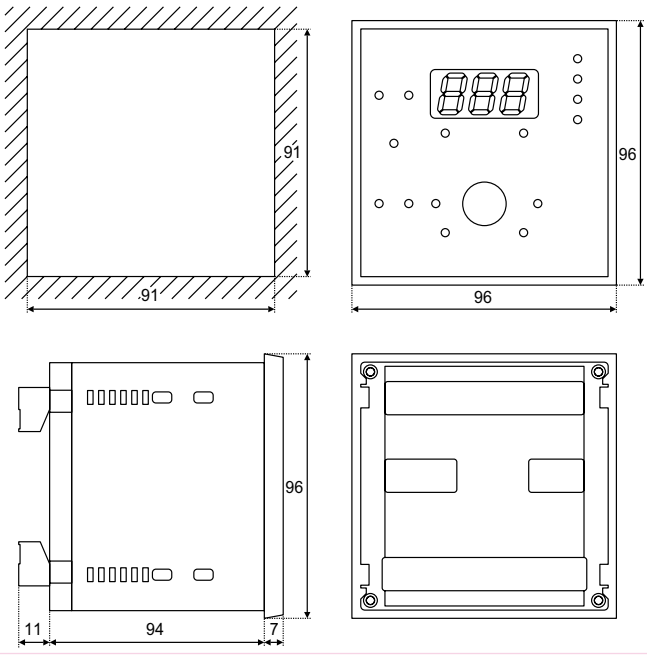


Connecting examples





Dimensions



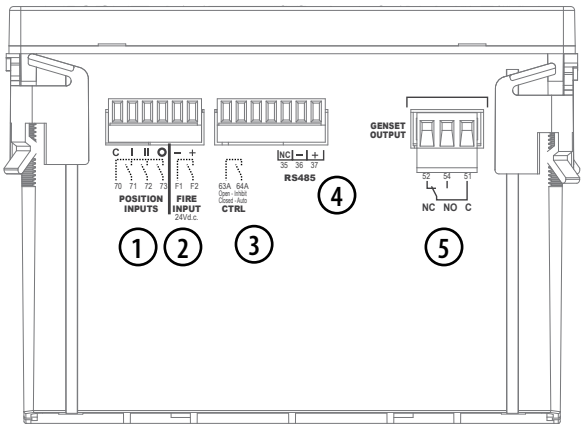
ATS Controller (ATSC25)

Technical data

Specifications:		ATSC25
Supplied from measurement circuit		184 - 300 VAC
Power consumption		10 W
Measurement range	linear	90 - 520 VAC
	phase	50 - 300 VAC
Frequency		45 - 65 Hz
Emergency input (fire) voltage, V DC		12 - 24 VDC
Communication interface		RS485
Conductor cross section		0,5 - 2,5 mm^2 (screw terminals)
Mounting		DIN rail / door
IP rating		IP 20 (IP40 for front mounting)
Operation temperature		-25 °C ... +60 °C
Operation humidity		80 % / 50 °C 95 % / 40 °C
Dimensions (H × W × D)		96 x 144 x 106
Measurement category		III
Standards		IEC 61010-2-201, IEC 60947-6-1, IEC 60947-1

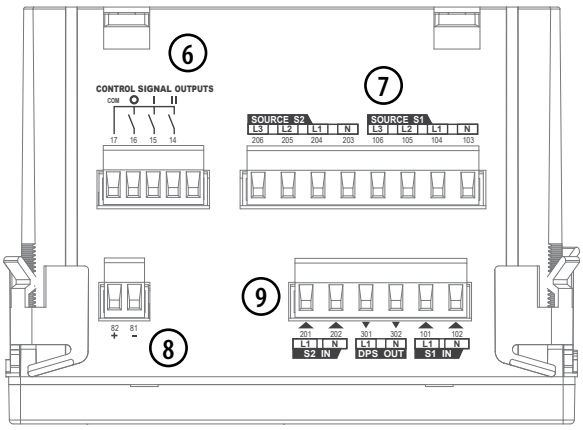
Description

Connectors top view



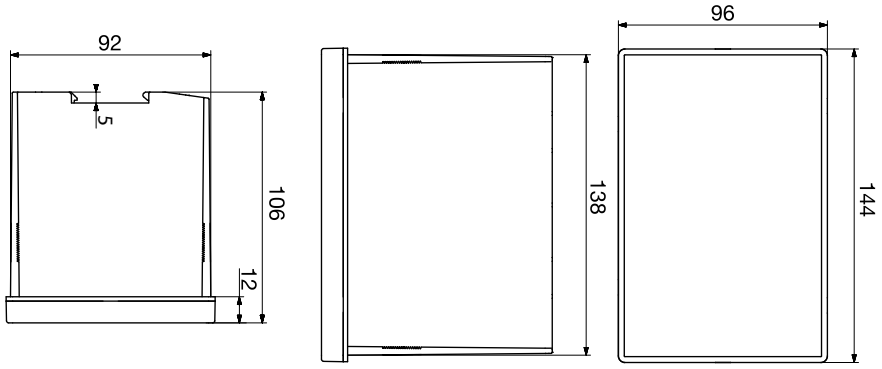
1. RTSE position feedback input
2. 24 V.d.c fire input
3. Enable control when closed / disable control when open
4. RS485 connections
5. Genset Start relay

Connectors bottom view



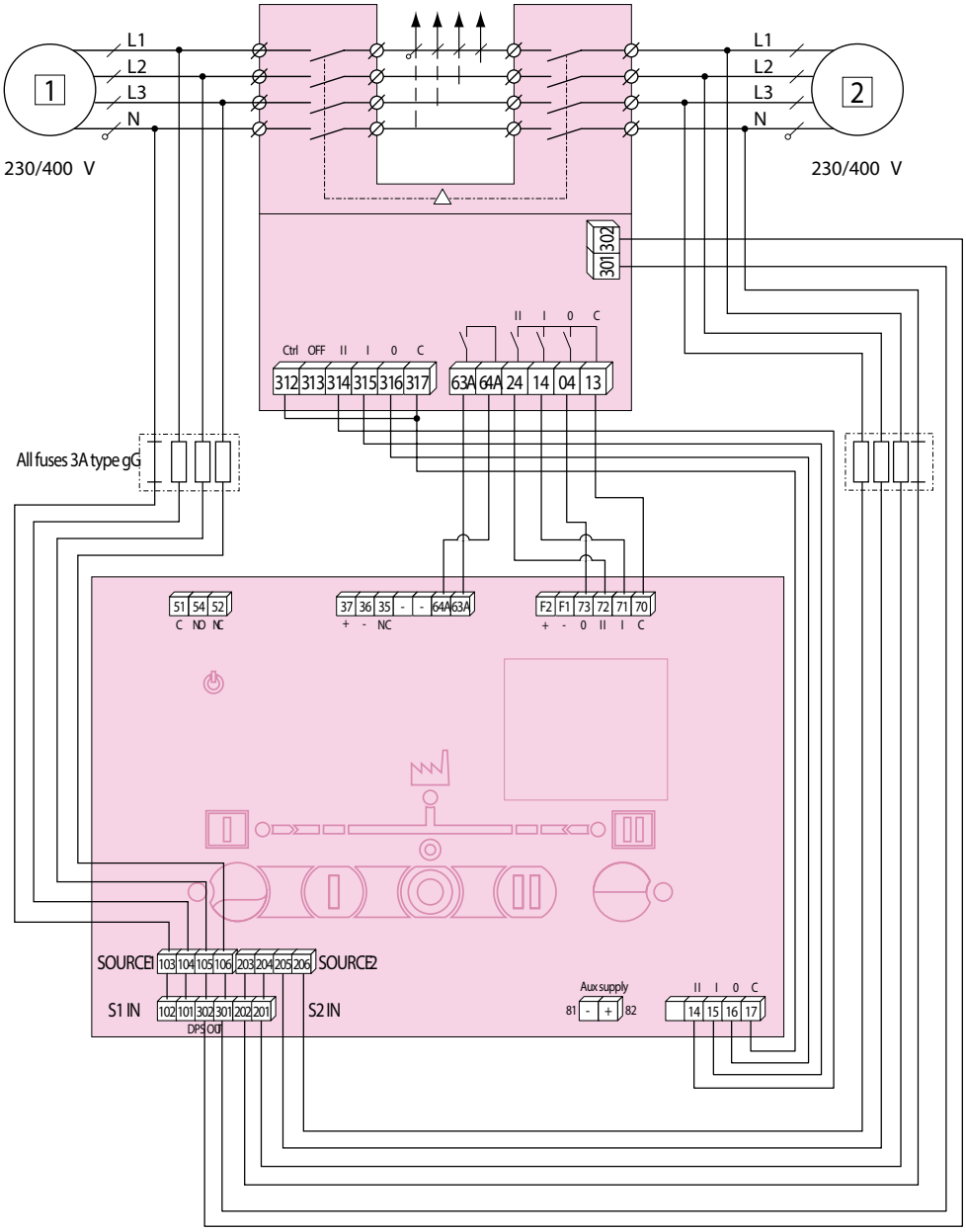
6. RTSE position control outputs
7. Source 1 and 2 voltage inputs
8. 24 V.d.c Aux supply
9. External DPS – Input / output

Dimensions



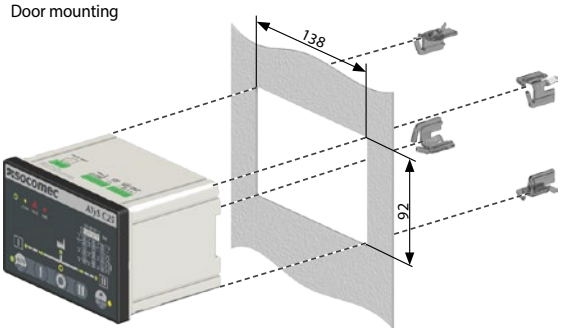
Wiring Diagrams

ATSC25



Mounting

Door mounting



Door cut-out of 93(+0.8) x138(+1) mm, door thickness 1.5- 3mm.
Remove all connectors and clip before inserting the controller in the cut-out then fix the controller in place using all 4 fixations clips

DIN rail mounting

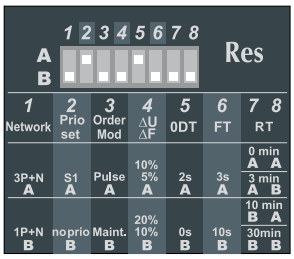
1. Mounting

When mounting make sure both clips are pushed up, then clip on the DIN Rail.

2. Unmounting

To remove from the DIN Rail, drag the two mounting clips down before removing the product.

Settings



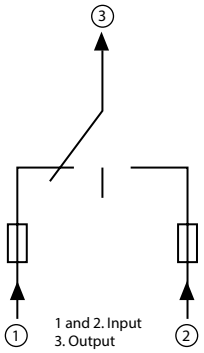
After changing DIP switch settings press RES button shortly (<3s) to validate.

To reset settings configured through communication long press on RES button > 10s.

DIP Switch		
DIP 1 A/B	A	Three phase network
	B	Single phase network
DIP 2 A/B	A	Prioritty source 1
	B	No priority
DIP3 A/B	A	Control mode impulse logic
	B	Control mode contactor logic
DIP 4 A/B	A	Overvoltage setting at 10% of nom voltage / overfrequency setting 5% of nominal frequency (hysteresis value is 20% of ΔU/ΔF)
	B	Overvoltage setting at 20% of nom voltage / overfrequency setting 10% of nominal frequency (hysteresis value is 20% of ΔU/ΔF)
DIP5 A/B	A	Load supply down time of 2 second (0DT = 02 sec)
	B	Load supply down time of 0 second (0DT = 0 sec)
DIP6 A/B	A	Wait time of 3s before source is lost (Fail timer = 3s)
	B	Wait time of 10s before source is lost (Fail timer = 10s)
DIP 7 & 8 A/B & A/B	AA	Wait time of 0min before source returns (retrun timer = 0min)
	AB	Wait time of 3min before source returns (retrun timer = 3min)
	BA	Wait time of 10min before source returns (retrun timer = 10min)
	BB	Wait time of 30min before source is lost returns (retrun timer = 30min)

Denomination	Terminal	Description	Characteristics
Control signal outputs (orders to RTSE)	14	Position II order	AC1 – General use – Ie :5A , Ue : 250V DC – General use – Ie 5A, Ue: 30V
	15	Position I order	
	16	Position 0 order	
	17	Common point for position output	
RS485	35	NC – Not connected	RS485 Isolated bus
	36	Negative electrode	
	37	Positive electrode	
Genset output	51	Common point	AC1 – General use – Ie :3A , Ue : 250V DC – General use – Ie 3A, Ue: 30V AC1 – General use – Ie :5A , Ue : 250V DC – General use – Ie 5A, Ue: 30V 150W
	52	Normaly closed contact	
	54	Normaly open contact	
Controller inhibit input	63A	Controller is inhibited when this contact is open	Do not use external voltage - Power from common point
	64A		
Position iputs (return of informa-tion from RTSE)	70	Common point for position inputs	Do not use external voltage - Power from common point
	71	Position I RTSE	
	72	Position II RTSE	
	73	Position 0 RTSE	
Fire input	F1	Negative electrode of the 24 V.d.c	11-25 V.d.c
	F2	Positive electrode of the 24 V.d.c	
Optional Aux supply 24V.d.c	81	Negative electrode of the 24 V.d.c	19-30 V.d.c
	82	Positive electrode of the 24 V.d.c	
Source 1 and 2 voltage inputs	103	Source 1 N	Sensing range : 90-520 VAC (ph-n) 50-300 VAC L-N Supply range : 161-300 VAC (ph-n) Max consumption 10 W
	104	Source 1 L1	
	105	Source 1 L2	
	106	Source 1 L3	
	203	Source 2 N	
	204	Source 2 L1	
	205	Source 2 L2	
	206	Source 2 L3	
DPS output (RTSE power supply)	301	Phase output	AC1 – General use – Ie :8A , Ue : 250V DC – General use – Ie 5A, Ue: 30V 150W
	302	Neutral output	

Accessories for ATS systems

Wiring Diagrams

ATSDPS