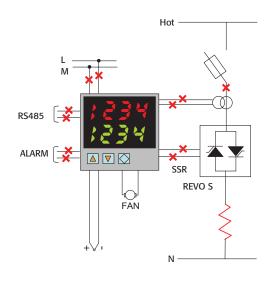


REVO-TC 1PH Temperature + Thyristor







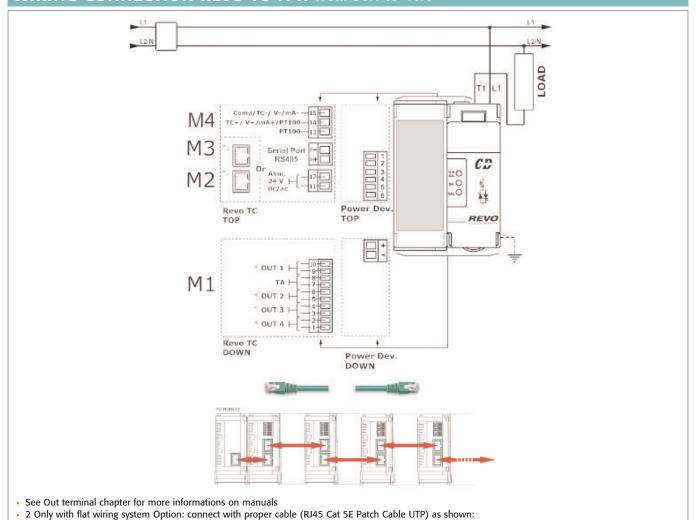
GENERAL DESCRIPTION

- Integrate Fuse + Fuse Holder with built in Current Transformer
- Current Transformer integrated when HB option is selected on Controller
- Input signal SSR standard, analogue is an option
- Zero crossing firing
- Electronic fully isolated from power with constant current drain on input
- Special heat Sink with very high dissipation value
- Operating temperature 40° C without derating
- Comply with EMC
- DIN RAIL side by side mounting
- IP20 protection

TECHNICAL SPECIFICATION TEMPERATURE CONTROLLER

- PID Temperature controller
- Automatic Tuning of PID parameters with Self Tune or Pretune procedure
- Manual setting when requested of PID parameters
- Three pallets of PID parameters can be enabled at programmed PV value
- Dual Display to read PV, Set Point Load current and all parameters
- Universal input for Thermocouple RTD and linear input
- Four configurable outputs as Relay, SSR and 4:20mA
- Heating and Cooling controller with possibility to select the type of cooling for fan, water and oil
- RS485 communication from 19200 to 57600 Bauds Modbus RTU protocol
- The controller can be configured from front push button or via RS485 comm. or via USB port on front controller using CD Automation programming cable
- Auto/Manual with Bumpless Transfer facility
- Heather Break Alarm to diagnostic partial or total load failure
- RS485 port RTU Modbus Protocol
- Comply with CE-EMC
- Screw terminals as standard or RJ45 Connector
- DIN rail mounting
- Dimensions Width: 36 Height: 121 Depth: 86
- Flat cable and connectors for multiple controller system

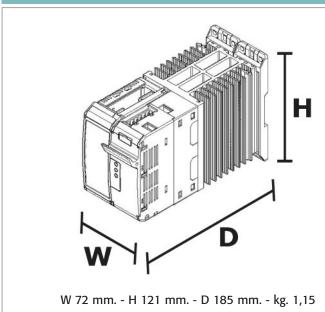
WIRING CONNECTION REVO-TC 1PH from 30A to 40A

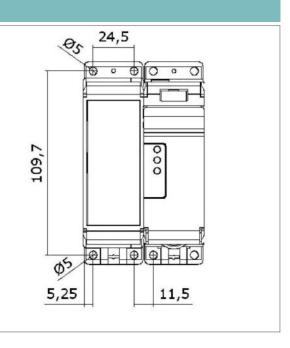


NOTE

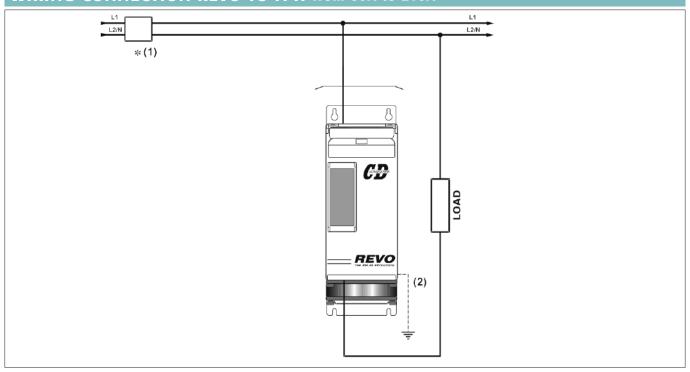
- (1) A suitable device must ensure that the unit can be electrically isolated from the supply, this allows the qualified people to
 - The user installation must be protecting by electromagnetic circuit breaker or by fuse isolator.
 - The semiconductor fuses are classified for UL as supplementar protection for semiconductor.
- (2) The heat-sink must be connected to the earth.
- (3) Only for the HB option
- (4) Only for the Analog Input option.
- (5) Use the extrarapid fuse with low I2t.

DIMENSION AND FIXING HOLES





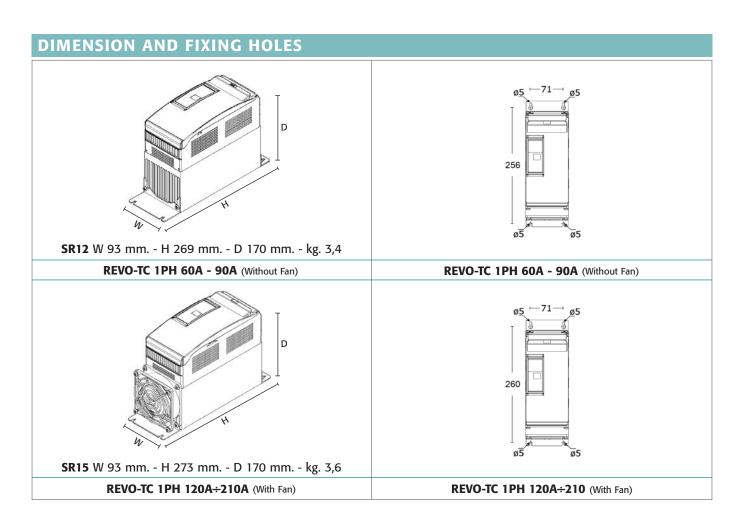
WIRING CONNECTION REVO-TC 1PH from 60A to 210A



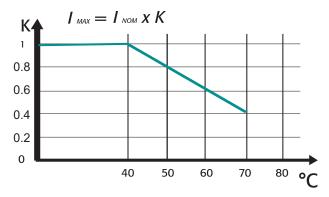
NOTE

- (1) A suitable device must ensure that the unit can be electrically isolated
 - from the supply, this allows the qualified people to work in safety.

 The user installation must be protecting by electromagnetic circuit breaker or by fuse isolator. The semiconductor fuses are classified for UL as supplementar protection for semiconductor.
- (2) The heat-sink must be connected to the earth.



DERATING CURVES



REVO TC-TC has been sized for operating temperature of 40° C Over this temperature use the graphic above

OUTPUT FEATURES (POWER DEVICE)

Current A	Voltage range (V)	reverse	ve peak voltage (600V)	Latching current (mAeff)	Max peak one cycle (10msec.)	Leakage current (mAeff)	I2T value for fusing tp=10msec.	Frequency range (Hz)	Power loss I=inom (W)	Isolation Voltage Vac
30A	24÷600V	1200	1600	250	400	15	780	47÷70	38	2500
35A	24÷600V	1200	1600	250	600	15	1750	47÷70	44	2500
40A	24÷600V	1200	1600	250	800	15	3110	47÷70	50	2500
60A	24÷600V	1200	1600	450	1000	15	4750	47÷70	65	2500
90A	24÷600V	1200	1600	450	2000	15	19100	47÷70	84	2500
120A	24÷600V	1200	1600	450	1540	15	11300	47÷70	138	2500
150A	24÷600V	1200	1600	450	2000	15	19100	47÷70	162	2500
180A	24÷600V	1200	1600	300	4800	15	108000	47÷70	178	2500
210A	24÷600V	1200	1600	300	5250	15	128000	47÷70	202	2500

ORDERING CODES REVO-TC 1PH

1

2

3

4

5

REVO TC 1PH

3	Phase Controlled				
De	Description code Numeric code				
1 Pł	HASE UNIT 1PH	1			
Phase Current					

4,5,6	Phase Current 1PH/2PH/3PH			
Descripti	on code	Numeric code		
30	A	0 3 0 (3)		
35	A	0 3 5		
40	A	0 4 0		
60	A	060		
90	A	090		
120	120A			
150	DA	150		
180A		180		
210	OA	2 1 0 (2)		

L	E	GE	N	D

CT = Current Transformer HB = Heater Break Alarm

Note (1): Fixed fuses over 40A

Note (2): The temperature controller can be mounted as an option on all **CD** automation Thyristor unit

Note (3): Available on 2 - 3PH only

Note (4): Available on RT1 only

7	Max Voltage			11	Outpu	it 3	
De	scription code	Numeric code		De	scription code	Numeric code	
	480V	4		1 o	ff D/I 24v d.c.	1	
600V		6		1 off D	O/O Relay contact	2	
			_				

12

Description code

For All Units = < 40A

For All Units = < 40A
Fuse & Fuse Holder
Fuse & Fuse Holder + CT
Fuse & Fuse Holder
+CT +HB with screw terminals
Fuse & Fuse Holder
+CT +HB with Flat Cable

For All Units > 40A Fixed Fuses Standard

De	escription code	Numeric code
	12:24V ac dc	4
9	Inp	ut
De	escription code	Numeric code
Т	hermocouple	T
	Pt 100	N
	0:10V dc	V

Aux. Voltage supply

10	10 Output 2				
Description code		Numeric code			
Re	elay Output 2	R			
H	Heating Only	0			

Fixed Fuse Standard + CT	Y
Fixed Fuse Standard	
+ CT + HB	Н
13 Fan Op	otion
Description code	Numeric code
Description code No fan for unit =< 90A	Numeric code 0
•	Numeric code 0 1
No fan for unit =< 90A	Numeric code 0 1 2

Fuse & Option

Numeric code

Н Χ

	14	Appro	ovals
Description code			Numeric code
	CE EN	AC For European	
Market			0
cUL pending up to			
		210A	L

10 | 11 | 12 | 13 | 14 | 15 | 16

15	Manual			
De	scription code	Numeric code		
	None	0		
It	alian Manual	1		
Er	nglish Manual	2		
Ge	erman Manual	3		
Fr	ench Manual	4		

16	Versi	on
Description code		Numeric code
S	Standard unit	
with a single fuse		1
Ur	nit with 2 Fuses	
+ Fu:	se Holder .=<40A	
(Just or	n single phase units)	2 (4)

